

PAUL THOMPSON

Professor of Neurology, Psychiatry, Engineering, Radiology, Pediatrics & Ophthalmology
Imaging Genetics Center, Stevens Institute for Neuroimaging & Informatics

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EDUCATION/TRAINING:

INSTITUTION AND LOCATION	Degree	Year(s)	Field of Study
University of California, Los Angeles	Ph.D.	1993-1998	Neuroscience
Oxford University, England	M.A., B.A.	1989-1993	Mathematics
Oxford University, England	B.A.	1989-1991	Greek & Latin Languages (Greats)

RESEARCH AND PROFESSIONAL EXPERIENCE:

Professor of Neurology, Psychiatry, Engineering, Radiology & Ophthalmology	Sept. 2013-
Professor of Pediatrics	Nov. 2013-
Professor of Neurology, Step 6 (Step 7 pending, for July 2013)	July 1 2010-
Professor of Psychiatry and Biobehavioral Sciences (secondary appointment)	July 1 2011-
Professor of Neurology, Step 2, UCLA School of Medicine	July 1 2007-
Associate Professor of Neurology, UCLA School of Medicine	2003-2007
Assistant Professor of Neurology, UCLA School of Medicine	1998-2003
Ph.D. candidate in Neuroscience, Laboratory of Neuro Imaging, UCLA	1993-1998
Fellow, Howard Hughes Medical Institute	1993-1998
Fulbright Scholar, U.S.-U.K. Fulbright Commission, London, England	1993-1998
Research Grantee, United States Information Agency, Washington, DC	1993-1998

Ph.D. thesis title (Advisor: Arthur W. Toga, Ph.D.):

Mathematical/Computational Strategies for Analyzing 3D Human Brain Image Databases

HONORS/AWARDS:

- **2015 International Innovations in Academia Award**, Top Prize, University of Kent
- **2008 Wiley Young Investigator of the Year Award, Organization for Human Brain Mapping**
- 1997 SPIE Medical Imaging Award, Best Paper
- 1998 Di Chiro Outstanding Scientific Paper Award
- 1998 Eiduson Award for Neuroscience Research
- 1999 Study Sections and Technical Evaluation Group (TEG) Member, National Library of Medicine, NIH; Special Emphasis Panel, Center for Scientific Review, NIH; Reviewer, Small Business Innovation Research (SBIR) Grants Program 1999; Peer-Reviewer, Alzheimer's Disease Association 1999 Grants Program; 2000 Study Sections and Site Visit Reviewer, National Institute for Child Health and Development (NICHD), 2001 Study Sections and Site Visit Reviewer, National Center for Research Resources (NCRR)
- Invited Speaker: International Human Brain Mapping Conference, Montréal, 1998; Howard Hughes Medical Institute, 1998; International Conference on Visualization in Biomedical Computing, Hamburg, 1997; Eiduson Lecture, 1998; National Academy of Sciences, 2001; full list 2000-2019 is included below
- Outstanding Graduate Student of 1998, UCLA; Chancellor's Service Award, 1998
- Oxford University Scholar in Mathematics (1991-93), in Classical Languages (1989-91)
- *Guinness Book of Records* Certificate, 1989: U.K. Record Examination Achievement (9 A-levels)
- **Associate Editor, *IEEE Transactions on Medical Imaging*, 2003-2012**
- **Associate Editor, *Human Brain Mapping*, 2003-**
- **Editorial Board, *NeuroImage*, 2005-2007**
- **Editorial Board, *Medical Image Analysis*, 2002-2021**
- **Editorial Board, *Cerebral Cortex*, 2005-**
- **Editorial Board, *Inverse Problems and Imaging*, 2008-2019**
- **Editorial Board, *Translational Neuroscience*, 2010-**
- **Editorial Board, *Current Medical Imaging Reviews*, 2004-**
- **Editorial Board, *Brain Connectivity*, 2010-**
- **Editorial Board, *World Journal of Neurology*, 2011-**
- **Editorial Board, *Frontiers in Neuroscience*, 2012-**
- **Associate Editor, *Frontiers in Neurogenomics*, 2012-**
- **Editorial Board, *NeuroImage - Clinical*, 2012-**
- **Associate Editor, *Journal of Alzheimer's Disease*, 2013**
- **Associate Editor, *Network Neuroscience*, 2016-**
- **Associate Editor, *European Archives of Clinical Psychiatry & Neurological Sciences*, 2016-**

- Elected Member, **American Neurological Association** (ANA), 2007 (Sponsor: Dr. Oscar Lopez)
- 2003 Turken Prize for Alzheimer's Disease Research, Turken Endowment
- Committee Member, University of California Legislative Assembly (Dept. of Neurology Representative, 2004-2007)
- Committee Member, Appointments & Promotions Committee (Dept. of Neurology, 2004-), Competitive Awards and Bridge Funds Committee (2008-)
- University Committee on Appointments, Promotion and Tenure (UCAPT), 2014-
- **External Advisory Board, Indiana University Network Science Institute**
- **External Advisory Board, Stanford BD2K ("Big Data") Center of Excellence, 2016-2020**
- **External Advisory Board, UCLA BD2K ("Big Data") Center of Excellence, 2015-2020**
- **Chair, External Advisory Board, UK-India Neuroimaging Consortium (C-VEDA Project)**
- **External Advisory Board, California BRAIN Initiative**
- **External Advisory Board, ICM (Brain and Spine Institute) in Paris**
- **Elected Member, Board of Trustees, Skolkovo Institute of Science and Technology (SkolTech, Moscow), 5 year term, 2016-2021**

- International Scientific Advisory Board (ISAC), for the \$102M Healthy Brain for Healthy Lives (HBHL) Initiative at McGill University, Canada; 2017-
 - Scientific Advisory Council, Women’s Alzheimer’s Movement (Founder, Maria Shriver), 2017-
 - 2017 William B. Kouwenhoven Memorial Lecture at the Johns Hopkins University, USA
 - 2017 NARSAD Distinguished Senior Investigator Award
 - Scientific Board Member, Skoltech Center for Neurobiology & Brain Restoration (CNBR), Moscow, Russia
 - 2019 “10 Awesome Contemporary Biologists” - <https://www.biology.media/ten-awesome-contemporary-biologists/>
 - Thomson-Reuters Highly Cited Scientist 2018 (top 1% worldwide) – <https://hscnews.usc.edu/keck-school-faculty-named-to-highly-cited-researchers-list/>
- Wikipedia: [https://en.wikipedia.org/wiki/Paul_Thompson_\(neuroscientist\)](https://en.wikipedia.org/wiki/Paul_Thompson_(neuroscientist))
- Chair, University Committee for Academic Promotions and Tenure (UCAPT; Life Sciences), USC, 2019-
 - Member, University Committee on Tenure and Privileges Appeals, 2019-
 - Zenith Award, Alzheimer’s Association (\$450,000 Senior Investigator award), 2019
 - Chair, Scientific Advisory Council, Nebraska Center on Development and Aging (PI: Tony Wilson), 2020
 - Scientific Advisory Board Member, DBT Wellcome Trust India Alliance Research Grant to establish a “Clinical Research Centre for Neuromodulation in Psychiatry”, NIMHANS, Bangalore, India, 2020
 - External Advisory Board, UCLA Brain Gut Microbiome Center, PI: Emeran Mayer
 - Member, ADSP EC-4C – Governing Body of the Alzheimer’s Disease Sequencing Project (ADSP)
- Peer-Reviewer for Proceedings of the National Academy of Sciences, Nature Genetics, Nature Neuroscience, Neuron, IEEE Transactions on Medical Imaging, Computer Vision and Image Understanding, IEEE Transactions on Biomedical Engineering, NeuroImage, Medical Image Analysis, J. Neuroscience, Elsevier Trends in Pharmacological Science and Technology, IEEE Transactions on Visualization and Computer Graphics, Human Brain Mapping, J. Computer Assisted Tomography, American Journal of Psychiatry, Biological Psychiatry

I. PUBLICATIONS (abstracts and PDFs available at: http://www.ini.usc.edu/~thompson/thompson_pubs.html).

The period 1996-2022 has resulted in **2,315** research publications, listed below; they are broken down as follows:

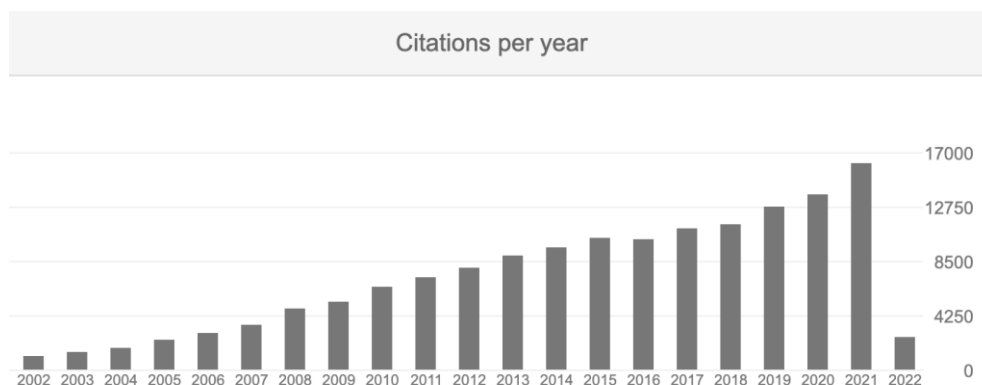
Peer-Reviewed Journal Papers	900+	(35+ as first author, <u>500+ as senior/last author</u>)
Book Chapters	25	
Conference Abstracts	1,000+	

These publications appeared in the following journals: *Science*, *Nature* (2), *Nature Genetics* (2), *Proceedings of the National Academy of Sciences of the USA* (5 papers), *Nature Neuroscience* (5 papers), *Neuron*, *Journal of Neuroscience* (7 papers), *IEEE Transactions on Medical Imaging*, *Annals of Medicine*, *Annals of Biomedical Engineering*, *NeuroImage*, *Journal of Computer Assisted Tomography*, *Neurology*, *Cerebral Cortex*, *American Journal of Psychiatry*, *American Journal of Neuroradiology*, *Image and Vision Computing*, *International Journal of Computer Vision*, *Computer Graphics and Applications*, *NeuroReport*, *Human Brain Mapping*, *Journal of the Royal Society*, and *Medical Image Analysis*. Additional peer-reviewed papers appeared in the *Journal of the American Medical Informatics Association*, *Neuro-Oncology*, *SPIE Medical Imaging*, *Proceedings of the IEEE Conference on Visualization in Biomedical Computing*, and the *SPIE Lecture Notes in Computer Science*. Invited chapters include tutorial articles in: *Nature Encyclopedia*, *Handbook of Medical Image Processing*, *Brain Mapping: The Methods*, *Brain Mapping:*

The Disorders, Brain Warping, The Corpus Callosum, and Advances in Biomedical Image Databases.

Reprints of published papers are available on request.

Cited by	VIEW ALL	
	All	Since 2014
Citations	110731	51526
h-index	152	99
i10-index	1175	893



CITATIONS PER YEAR – PAUL THOMPSON, 2000-2022

Google Scholar ranks all papers by citation count here – **158,000+ citations total / h-index of 188:**
<http://scholar.google.com/citations?user=qCVy9hgAAAAJ>

Refereed Journal Articles

1. **Thompson PM**, Giedd JN, Woods RP, MacDonald D, Evans AC, Toga AW (2000). *Growth Patterns in the Developing Brain Detected By Using Continuum-Mechanical Tensor Maps*, **Nature**, **404**:(6774) 190-193, March 9, 2000.
2. Zeineh MM, Engel SA, **Thompson PM**, Bookheimer S (2003). *Dynamics of the Hippocampus During Encoding and Retrieval of Face-Name Pairs*, **Science**, 299(5606):577-580, January 24 2003.
3. **Thompson PM**, Vidal CN, Giedd JN, Gochman P, Blumenthal J, Nicolson R, Toga AW, Rapoport JL (2001). *Mapping Adolescent Brain Change Reveals Dynamic Wave of Accelerated Gray Matter Loss in Very Early-Onset Schizophrenia*, **Proceedings of the National Academy of Sciences of the USA**, **98**(20):11650-11655, September 25, 2001.
4. **Thompson PM**, Cannon TD, Narr KL, van Erp T, Khaledy M, Poutanen V-P, Huttunen M, Lönqvist J, Standertskjöld-Nordenstam C-G, Kaprio J, Dail R, Zoumalan CI, Toga AW (2001). *Genetic Influences on Brain Structure*, **Nature Neuroscience** **4**(12):1253-8, Dec. 2001.

5. **Thompson PM**, MacDonald D, Mega MS, Holmes CJ, Evans AC, Toga AW (1997a) *Detection and Mapping of Abnormal Brain Structure with a Probabilistic Atlas of Cortical Surfaces*, **Journal of Computer Assisted Tomography**, **21**(4):567-581, Jul.-Aug. 1997. [**Di Chiro Outstanding Scientific Paper Award, 1998**].
6. **Thompson PM**, Toga AW (1997b) *Detection, Visualization and Animation of Abnormal Anatomic Structure with a Deformable Probabilistic Brain Atlas based on Random Vector Field Transformations* (Invited Paper), **Medical Image Analysis** **1**(4): 271-294; paper, with video sequences on CD-ROM with Journal Issue, November 1997.
7. **Thompson PM**, Schwartz C, Lin RT, Khan AA, Toga AW (1996a) *3D Statistical Analysis of Sulcal Variability in the Human Brain*, **Journal of Neuroscience**, **16**(13):4261-4274, July 1996 [Cover Article].
8. **Thompson PM**, Schwartz C, Toga AW (1996b) *High-Resolution Random Mesh Algorithms for Creating a Probabilistic 3D Surface Atlas of the Human Brain*, **NeuroImage** **3**(1):19-34, March 1996 [Cover Article].
9. **Thompson PM**, Toga AW (1996c) *A Surface-Based Technique for Warping 3-Dimensional Images of the Brain*, **IEEE Transactions on Medical Imaging**, **15**(4):1-16, August 1996.
10. **Thompson PM** (1998). *The Nature and Role of Intuition in Mathematical Epistemology*, **Philosophia: The Philosophical Quarterly of Israel**, **26**(3-4):279-319; Springer collection on Humanities, Social Sciences and Law, March 1998.
11. **Thompson PM**, Moussai J, Khan AA, Zohoori S, Goldkorn A, Mega MS, Small GW, Cummings JL, Toga AW (1998) *Cortical Variability and Asymmetry in Normal Aging and Alzheimer's Disease*, **Cerebral Cortex**, **8**(6):492-509, Sept.1998.
12. **Thompson PM**, Toga AW (1996d) *Visualization and Mapping of Anatomic Abnormalities using a Probabilistic Brain Atlas Based on Random Fluid Transformations*, **Proc. IEEE Visualization in Biomedical Computing**, Hamburg, Germany, September 1996, **4**:383-392. Also in: **Lecture Notes in Computer Science (LNCS) 1131**:383-392, K-H Höhne, R Kikinis [eds.], Springer-Verlag.
13. **Thompson PM**, Mega MS, Woods RP, Blanton RE, Moussai J, Zoumalan CI, Aron J, Cummings JL, Toga AW (2001). **Early Cortical Change in Alzheimer's Disease Detected with a Disease-Specific Population-Based Brain Atlas**, **Cerebral Cortex** **11**(1):1-16, Jan. 2001.
14. **Thompson PM**, Woods RP, Mega MS, Toga AW (2000). *Mathematical/Computational Challenges in Creating Population-Based Brain Atlases*, [Invited Paper], **Human Brain Mapping** **9**(2):81-92, Feb. 2000.
15. **Thompson PM**, Mega MS, Toga AW (2000). *Disease-Specific, Probabilistic Brain Atlases*, **Proceedings of the IEEE**, International Conference on Computer Vision and Pattern Recognition, June 2000.
16. **Thompson PM**, Mega MS, Vidal C, Rapoport JL, Toga AW (2001). **Detecting Disease-Specific Patterns of Brain Structure using Cortical Pattern Matching and a Population-Based Probabilistic Brain Atlas**, IEEE Conference on Information Processing in Medical Imaging (IPMI), UC Davis, 2001, in: *Lecture Notes in Computer Science (LNCS) 2082*:488-501, M Insana, R Leahy [eds.], Springer-Verlag.
17. **Thompson PM**, Toga AW (2002). *A Framework for Computational Anatomy* [Invited Paper], *Computing and Visualization in Science*, **5**:1-12.
18. **Thompson PM** (2002). *Brain Deficit Patterns May Signal Early-Onset Schizophrenia* [Invited Article], **Psychiatric Times**, **19**(8):30-32, August 2002.

19. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Doddrell DM, Cannon TD, Toga AW (2002). *Detecting Dynamic and Genetic Effects on Brain Structure using High-Dimensional Cortical Pattern Matching*, Proc. International Symposium on Biomedical Imaging (ISBI2002), Washington, DC, July 7-10, 2002.
20. **Thompson PM**, Cannon TD, Toga AW (2002). *Mapping Genetic Influences on Human Brain Structure* [Review Paper], **Annals of Medicine**, 2002;34(7-8):523-36.
21. **Thompson PM**, Rapoport JL, Cannon TD, Toga AW (2002). *Imaging the Brain as Schizophrenia Develops: Dynamic and Genetic Brain Maps*, [Invited Paper], **Primary Psychiatry**, 2002.
22. **Thompson PM**, Toga AW (2003). *Cortical Diseases and Cortical Localization* [Review Article], **Nature Encyclopedia of the Life Sciences**, [in press].
23. **Thompson PM** (2003). *Schizophrenia*, **World Book Encyclopedia**, [peer-reviewed entry].
24. **Thompson PM**, Toga AW (2003). *Alzheimer's Disease: MRI Imaging of Progressive Brain Change* [Review Article], Adelman G, Smith BH, [eds.], **Encyclopedia of Neuroscience**, Nov. 2003.
25. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Herman D, Hong MS, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamics of Gray Matter Loss in Alzheimer's Disease*, **Journal of Neuroscience**, 23(3):994-1005, Feb. 1 2003.
26. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Sowell ER, Rose SE, Semple J, Herman D, Hong MS, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamic Mapping of Alzheimer's Disease*, Proceedings of the 19th Colloque Medecine et Recherche, IPSEN Foundation, Paris, March 2003; Springer-Verlag.
27. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Gravano D, Doddrell DM, Toga AW (2004). *Mapping Hippocampal and Ventricular Change in Alzheimer's Disease*, **NeuroImage**, 22(4):1754-66, Aug. 2004; published online, June 1, 2004.
28. **Thompson PM**, Hayashi KM, Simon S, Geaga J, Hong MS, Sui Y, Lee JY, Toga AW, Ling WL, London ED (2004). *Structural Abnormalities in the Brains of Human Subjects who use Methamphetamine*, **Journal of Neuroscience**, 24(26):6028-6036, June 30 2004.
29. **Thompson PM**, Hayashi KM, Sowell ER, Gogtay N, Giedd JN, Rapoport JL, de Zubicaray GI, Janke AL, Rose SE, Semple J, Doddrell DM, Wang YL, van Erp TGM, Cannon TD, Toga AW (2004). *Mapping Cortical Change in Alzheimer's Disease, Brain Development, and Schizophrenia*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, 23 Suppl 1:S2-18, September 2004.
30. **Thompson PM**, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, Reiss AL (2005). *Abnormal Cortical Complexity and Thickness Profiles Mapped in Williams Syndrome*, **Journal of Neuroscience**, 25(18): 4146-4158, April 20, 2005.
31. **Thompson PM**, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Thinning of the Cerebral Cortex in HIV/AIDS Reflects CD4+ T-Lymphocyte Decline*, **Proceedings of the National Academy of Sciences**, 102(43):15647-15652, October 25, 2005 [published online, Oct. 10, 2005].
32. **Thompson PM**, Sowell ER, Gogtay N, Giedd JN, Vidal CN, Hayashi KM, Leow A, Nicolson R, Rapoport JL, Toga AW (2005). Structural MRI and Brain Development, **International Review of Neurobiology** 2005; 67PB:285-323.

33. **Thompson PM**, Dutton RA, Hayashi KM, Lu A, Lee SE, Lee JY, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2006). *3D Mapping of Ventricular & Corpus Callosum Abnormalities in HIV/AIDS*, **NeuroImage**, 31(1):12-23, Jan 2006 [Epub ahead of print].
34. **Thompson PM**, Hayashi KM, Dutton RA, Chiang MC, Leow AD, Sowell ER, de Zubicaray GI, Becker JT, Lopez OL, Aizenstein HJ, Toga AW (2006). *Tracking Alzheimer's Disease*, **Proceedings of the New York Academy of Sciences**, Special Issue on *Imaging and the Aging Brain*, ed. De Leon MJ, Federoff H, Hirsch J, Martin GM, Morrison J, Snider A; **1097**: 183–214, February 2007.
35. Memoli F, Sapiro G, **Thompson PM** (2004). *Implicit Brain Imaging*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, September 2004.
36. Pitiot A, Delingette H, **Thompson PM**, Ayache N (2004). *Expert Knowledge Guided Segmentation System for Brain MRI*, Special Issue on *Mathematics in Brain Imaging* (Thompson PM, Miller MI, Ratnanather JT, Poldrack R, Nichols TE, eds.), **NeuroImage**, September 2004.
37. Gray JR, **Thompson PM** (2004). *Neurobiology of Intelligence: Science and Ethics*, **Nature Reviews Neuroscience**, 2004 Jun;5(6):471-82. Abridged version also published in *Readings in Neuroethics*, Ed. Martha Farah, 2009.
38. Gray JR, **Thompson PM** (2004). *Neurobiology of Intelligence: Health Implications?*, **Discovery Medicine**, 22:157-162.
39. Ashburner J, Csernansky J, Davatzikos C, Fox NC, Frisoni G, **Thompson PM** (2003). *Computer-Assisted Imaging to Assess Brain Structure in Healthy and Diseased Brains*, **Lancet Neurology** 2(2):79-88, February 2003.
40. Gogtay N, Giedd JN, Lusk L, Hayashi KM, Greenstein D, Vaituzis C, Nugent TF, Herman DH, Classen L, Toga AW, Rapoport JL, **Thompson PM** (2004). *Dynamic Mapping of Human Cortical Development During Childhood and Adolescence*, **Proceedings of the National Academy of Sciences**, 101(21):8174-8179, May 25 2004.
41. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Poutanen V-P, Huttunen M, Lönqvist J, Standertskjöld-Nordenstam C-G, Narr KL, Khaledy M, Zoumalan CI, Dail R, Kaprio J (2002). *Cortex Mapping Reveals Heteromodal Gray Matter Deficits in Monozygotic Twins Discordant for Schizophrenia*, **Proceedings of the National Academy of Sciences of the USA**, 99(5):3228-3233.
42. Cannon TD, van Erp TGM, Bearden CE, Loewy R, **Thompson PM**, Toga AW, Huttunen MO, Keshavan M, Seidman LJ, Tsuang MT (2003). *Early and Late Neurodevelopmental Influences in the Prodrome to Schizophrenia: Contributions of Genes, Environment, and their Interactions*, **Schizophrenia Bulletin**, Special Issue, 2003; 29(4):653-69.
43. Cannon TD, Hennah W, van Erp TGM, **Thompson PM**, Lönqvist J, Huttunen M, Gasperoni T, Tuulio-Henriksson, Pirkola T, Toga AW, Kaprio J, Mazziotta JC, Peltonen L (2005). *DISC1/TRAX Haplotypes Associate with Schizophrenia, Reduced Prefrontal Gray Matter, and Impaired Short- and Long-Term Memory*, **Archives of General Psychiatry**, 62(11):1205-13, Nov. 2005.
44. Toga AW, **Thompson PM**, Holmes CJ, Payne BA (1996) *Informatics and Computational Neuroanatomy*, Proc. of the American Medical Informatics Association, Section S75 - Brain Mapping and Image Databases,

Washington, DC, USA, October 26-30, 1996, 299-303 [peer-reviewed article].

45. Toga AW, **Thompson PM** (1997) *Measuring, Mapping, and Modeling Brain Structure and Function* **First Prize (Best Paper)**, SPIE Medical Imaging Symposium, February 1997, Newport Beach, CA, USA; SPIE Lecture Notes Volume 3033:104-114.
46. Toga AW, **Thompson PM** (2001). *The Role of Image Registration in Brain Mapping* [Invited Paper], **Image and Vision Computing Journal**, **19**(1-2):3-24.
47. Toga AW, **Thompson PM**, Mega MS, Narr KL, Blanton RE (2001). *Probabilistic Approaches for Atlasing Normal and Disease-Specific Brain Variability* [Invited Paper], **Anatomy and Embryology** (Berlin) 204(4):267-82, Oct. 2001.
48. Toga AW, **Thompson PM** (2001). *Maps of the Brain* [Invited Paper], **The New Anatomist (Anat Rec.)**, **265**(2):37-53, April 5 2001.
49. Toga AW, **Thompson PM** (2002). *New Approaches in Brain Morphometry* [Invited Paper], **Journal of Gerontology** 10(1):13-23, Jan./Feb. 2002.
50. Toga AW, **Thompson PM** (2003). *Mapping Brain Asymmetry* [Invited Paper], **Nature Reviews Neuroscience**, 4(1):37-48, January 2003.
51. Toga AW, **Thompson PM** (2003). *Temporal Dynamics of Brain Anatomy* [Invited Paper], **Annual Review of Biomedical Engineering**, 5:119-145, Aug. 2003.
52. Toga AW, **Thompson PM** (2005). *Genetics of Brain Structure and Intelligence*, **Annual Review of Neuroscience**, 2005;28:1-23.
53. Toga AW, **Thompson PM** (2005). *Brain Atlases of Normal and Diseased Populations*, **International Review of Neurobiology**, 2005;66:1-54. Review.
54. Toga AW, **Thompson PM**, Sowell ER (2006). *Mapping Brain Maturation*, **Trends in Neuroscience**, 2006 Feb 9; [Epub ahead of print]
55. Toga AW, **Thompson PM**, Mori S, Amunts K, Zilles K (2006). *Towards Multimodal Atlases of the Human Brain*, **Nature Reviews Neuroscience**, 2006 Dec;7(12):952-66.
56. Toga AW, Narr KL, **Thompson PM**, Luders E (2009). *Brain Asymmetry: Evolution* [Review Article], **Encyclopedia of Neuroscience**, 2nd Edition, published, January 2009.
57. Mega MS, Chen S, **Thompson PM**, Woods RP, Karaca TJ, Tiwari A, Vinters H, Small GW, Toga AW (1997a) *Mapping Pathology to Metabolism: Coregistration of Stained Whole Brain Sections to PET in Alzheimer's Disease*, **NeuroImage** 5:147-153, February 1997.
58. Mega MS, **Thompson PM**, Cummings JL, Back CL, Xu LQ, Zohoori S, Goldkorn A, Moussai J, Fairbanks L, Small GW, Toga AW (1998) *Sulcal Variability in the Alzheimer's Brain: Correlations with Cognition*, **Neurology**, **50**:145-151, January 1998.
59. Mega MS, Chu T, Mazziotta JC, Trivedi KH, **Thompson PM**, Shah A, Cole G, Frautschy SA, Toga AW (1999). *Mapping Biochemistry to Metabolism: FDG-PET and Beta-Amyloid Burden in Alzheimer's Disease*, **NeuroReport** 10(14):2911-2917, Sept. 29 1999.

60. Narr KL, **Thompson PM**, Sharma T, Moussai J, Cannestra AF, Toga AW (2000). *Mapping Corpus Callosum Morphology in Schizophrenia*, **Cerebral Cortex**, **10**(1):40-49, January 2000.
61. Narr KL, **Thompson PM**, Sharma T, Moussai J, Blanton RE, Anvar B, Edris A, Krupp R, Rayman J, Khaledy M, Toga AW (2001). *3D Shape Characterization and Mapping of Temporo-Limbic Regions and the Lateral Ventricles in Schizophrenia*, **Biological Psychiatry** **50**(2):84-97, July 15, 2001.
62. Narr KL, **Thompson PM**, Sharma T, Moussai J, Zoumalan CI, Rayman J, Toga AW (2001). *3D Mapping of Gyral Shape and Cortical Surface Asymmetries in Schizophrenia: Gender Effects*, **Am J Psychiatry** 2001 Feb 1;158(2):244-255.
63. Narr KL, Cannon TD, Woods RP, **Thompson PM**, Kim S, Asuncion D, van Erp TG, Poutanen VP, Huttunen M, Lonnqvist J, Standerksjold-Nordenstam CG, Kaprio J, Mazziotta JC, Toga AW (2002). *Genetic contributions to altered callosal morphology in schizophrenia*. **Journal of Neuroscience**, May 1, 22(9):3720-9.
64. Narr KL, van Erp TG, Cannon TD, Woods RP, **Thompson PM**, Jang S, Blanton R, Poutanen VP, Huttunen M, Lonnqvist J, Standerksjold-Nordenstam CG, Kaprio J, Mazziotta JC, Toga AW. (2002). *A twin study of genetic contributions to hippocampal morphology in schizophrenia*, **Neurobiology of Disease**, 2002 Oct;11(1):83-95.
65. Narr KL, Sharma T, Woods RP, **Thompson PM**, Sowell ER, Rex D, Kim S, Asuncion D, Jang S, Mazziotta J, Toga AW (2003). *Increases in Regional Subarachnoid CSF without Apparent Cortical Gray Matter Deficits in Schizophrenia: Modulating Effects of Sex and Age*, **Am J Psychiatry**. 2003 Dec;160(12):2169-80.
66. Narr KL, **Thompson PM**, Szeszko P, Robinson D, Jang S, Woods RP, Kim S, Hayashi KM, Asuncion D, Toga AW, Bilder RM (2004). *Regional Specificity of Hippocampal Volume Reductions in First Episode Schizophrenia*, **NeuroImage** 2004 Apr;21(4):1563-75.
67. Narr KL, Bilder RM, Kim S, **Thompson PM**, Szeszko P, Robinson D, Luders E, Toga AW (2004). *Abnormal Gyral Complexity in First Episode Schizophrenia*, **Biological Psychiatry** 2004 Apr 15; 55(8):859-67.
68. Narr KL, Bilder RM, Toga AW, Woods RP, Rex DE, Szeszko PR, Robinson D, Sevy S, Gunduz-Bruce H, Wang YP, DeLuca H, **Thompson PM** (2005). *Mapping Cortical Thickness and Gray Matter Concentration in First Episode Schizophrenia*, **Cerebral Cortex**, 2005 Jun;15(6):708-19. 2004 Sep 15; [Epub ahead of print].
69. Narr KL, Toga AW, Szeszko P, **Thompson PM**, Woods RP, Robinson D, Sevy S, Wang Y, Schrock K, Bilder RM (2005). *Cortical thinning in cingulate and occipital cortices in first episode schizophrenia*, **Biological Psychiatry**, 2005 Jul 1;58(1):32-40.
70. Narr KL, Bilder RM, Woods RP, **Thompson PM**, Szeszko P, Robinson D, Ballmaier M, Messenger B, Wang Y, Toga AW (2005). *Regional specificity of cerebrospinal fluid abnormalities in first episode schizophrenia*, **Psychiatry Research**, 2005 Dec 27; [Epub ahead of print].
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Geraldo F. Busatto¹³, Benedicto Crespo-Facorro¹⁵, Christos Pantelis¹⁶, Stephen J. Wood¹⁷, Chuanjun Zhuo¹⁸, Russell T. Shinohara^{1,5}, Ruben C. Gur¹⁸, Raquel E. Gur¹⁸, Nikolaos Koutsouleris¹⁹, Daniel H. Wolf^{1,3,4}, Andrew J. Saykin²⁰, Marylyn D. Ritchie⁹, Li Shen⁸, Paul M. Thompson²¹, Olivier Colliot²², Katharina Wittfeld²³, Hans J. Grabe²⁴, Duygu Tosun²⁵, Murat Bilgel²⁶, Yang An²⁶, Daniel S. Marcus²⁷, Pamela LaMontagne²⁷, Susan R. Heckbert²⁸, Thomas R. Austin²⁹, Lenore J. Launer³⁰, Mark Espeland³¹, Colin L Masters³², Paul Maruff³³, Jurgen Fripp³⁴, Sterling C. Johnson³⁵, John C. Morris³⁶, Marilyn S. Albert³⁷, R. Nick Bryan³⁸, Susan M. Resnick²⁶, Yong Fan¹, Mohamad Habes³⁹, David Wolk^{1,40}, Haochang Shou^{1,5}, and Christos Davatzikos^{1*}, for the iSTAGING, the BLSA, the BIOCARD, the PHENOM, the ADNI studies, and the AI4AD consortium (2022). **Mega-analysis of brain structural covariance, genetics, and clinical phenotypes, to be submitted to Nature, 2022.**

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- 1043.Narelle K. Hansell¹, Lachlan T. Strike¹, Liza van Eijk², Victoria O’Callaghan¹, Nicholas G. Martin³, Greig I. de Zubicaray⁴, Paul M. Thompson⁵, Katie L. McMahon⁶, Margaret J. Wright^{1,7} (2022). **Genetic specificity of hippocampal subfield volumes, relative to hippocampal formation, identified in 2,148 young adult twins and siblings**, to be submitted to **Twin Research & Human Genetics**, May 2022.
- 1044.Chenzhong Yin¹⁺, Phoebe Imms²⁺, Mingxi Cheng¹⁺, Anar Amgalan²⁺, Nahian F. Chowdhury²⁺, Roy J. Massett², Alexander S. Maher², Nikhil N. Chaudhari², Xinghe Chen¹, **Paul M. Thompson**, Paul Bogdan^{1†*}, and Andrei Irimia^{2,3†*}, and for the Alzheimer’s Disease Neuroimaging Initiative** (2022). Interpretable deep learning of brain age captures domain-specific cognitive impairment, to be submitted, May 2022.
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- 1046.Christian Gaser, Robert Dahnke^a, Paul M Thompson^b, Florian Kurth^{c+}, Eileen Luders^{b,c,d+}, Alzheimer’s Disease Neuroimaging Initiative (2022). **CAT – A Computational Anatomy Toolbox for the Analysis of Structural MRI Data**, to be submitted to **Nature Methods**, June 2022.

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- Okamoto¹⁶, Michio Suzuki^{10,11}, Jessica A Turner³⁴, Paul M Thompson³⁵, Norio Ozaki¹⁹, Kiyoto Kasai^{1,2,25,26}, Ryota Hashimoto^{4,13}, COCORO (2022). **Subcortical volumetric alterations in four major psychiatric disorders: A mega-analysis study of 5604 subjects and a volumetric data-driven approach for classification**, to be submitted, August 2022.
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Calesella^{16,15}, M.Sc., Beatriz Couto^{20,21,22}, M.D., Damiaan A.J.P. Denys^{1,2}, M.D., Ph.D., Marco A.N. Echevarria¹³, M.D., Goi Khia Eng^{23,24}, Ph.D., Sónia Ferreira^{20,21,22}, Ph.D., Jamie D. Feusner^{25,26,27}, M.D., Rachael G. Grazioplene⁸, Ph.D., Patricia Gruner⁸, Ph.D., Joyce Y. Guo²⁸, Ph.D., Kristen Hagen^{29,30,31}, Ph.D., Bjarne Hansen^{30,32}, Ph.D., Yoshiyuki Hirano³³, Ph.D., Marcelo Q. Hoexter¹³, M.D., Ph.D., Fern Jaspers-Fayer³⁴, Ph.D., Selina Kasprzak^{35,36}, M.Sc., Minah Kim^{37,38}, M.D., Ph.D., Kathrin Koch³⁹, Ph.D., Yoo Bin Kwak⁴⁰, Ph.D., Jun Soo Kwon^{38,37,40}, M.D., Ph.D., Luisa Lazaro^{41,11,12,42}, M.D., Ph.D., Chiang-Shan R. Li⁸, M.D., Ph.D., Christine Lochner⁴³, Ph.D., Rachel Marsh⁴⁴, Ph.D., Ignacio Martínez-Zalacáin^{17,45}, M.Sc., Jose M Menchon^{17,45,12}, M.D., Ph.D., Pedro S. Moreira^{20,21,46}, Ph.D., Pedro Morgado^{20,21,22}, M.D., Ph.D., Akiko Nakagawa³³, M.D., Ph.D., Tomohiro Nakao⁴⁷, M.D., Ph.D., Janardhanan C. Narayanaswamy^{48,49}, M.D., Ph.D., Erika L. Nurmi⁵⁰, M.D., Ph.D., Jose C. Pariente Zorrilla¹¹, M.Sc., John Piacentini⁵¹, Ph.D., Maria Picó-Pérez^{20,21,52}, Ph.D., Federica Piras⁵³, Ph.D., Fabrizio Piras⁵³, Ph.D., Christopher Pittenger⁸, M.D., Ph.D., Janardhan Y.C. Reddy⁹, M.D., Daniela Rodriguez-Manrique^{54,55,56}, M.Sc., Yuki Sakai^{3,57}, M.D., Ph.D., Eiji Shimizu^{33,58,59}, M.D., Ph.D., Venkataram Shivakumar⁶⁰, Ph.D., Blair H. Simpson^{44,19}, M.D., Ph.D., Carles Soriano-Mas^{17,12,61}, Ph.D., Nuno Sousa^{21,22}, M.D., Ph.D., Gianfranco Spalletta^{53,62}, M.D., Ph.D., Emily R. Stern^{23,24}, Ph.D., S. Evelyn Stewart^{34,63,64}, M.D., Philip R. Szeszko^{65,66}, Ph.D., Jinsong Tang⁶⁷, M.D., Ph.D., Anders L. Thorsen^{30,32}, Ph.D., Yoshida Tokiko³³, Ph.D., Hirofumi Tomiyama⁴⁷, M.D., Ph.D., Benedetta Vai¹⁶, Ph.D., Ilya M. Veer⁶⁸, Ph.D., Ganesan Venkatasubramanian⁹, M.D., Ph.D., Nora C. Vetter⁶⁹, Ph.D., Chris Vriend^{35,36,70,71}, Ph.D., Susanne Walitza¹⁸, M.Sc., M.D., Lea Waller⁷², M.Sc., Zhen Wang⁷³, M.D., Ph.D., Anri Watanabe³, M.D., Ph.D., Nicole Wolff⁶⁹, Ph.D., Je-Yeon Yun^{38,74}, M.D., Ph.D., Qing Zhao⁷³, M.D., Wieke A. van Leeuwen^{1,2}, M.D., Hein J.F. van Marle^{35,75}, M.D., Ph.D., Laurens A. van de Mortel^{1,2}, M.Sc., Anouk van der Straten^{1,2}, M.D., Ysbrand D. van der Werf^{36,70,71}, Ph.D., **ENIGMA-OCD Working-Group***, Paul M. Thompson, M.D., Ph.D., Dan J. Stein⁷⁶, M.D., Ph.D., Odile A. van den Heuvel^{35,36,70}, M.D., Ph.D., Guido A. van Wingen^{1,2}, Ph.D. (2022). **The functional connectome in obsessive-compulsive disorder: resting-state mega-analysis and machine learning classification for the ENIGMA-OCD consortium, to be submitted, Sept. 2022.**

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McLaughlin, Sven C. Mueller, Laura Nawijn, Steven M. Nelson, Yuval Neria, Jack B. Nitschke, Miranda Olf, Elizabeth A. Olson, Matthew Peverill, K. Luan Phan, Faisal M. Rashid, Kerry Ressler, Isabelle M. Rosso, Lauren E. Salminen, Kelly Sambrook, Freda Scheffler, Christian Schmahl, Martha E. Shenton, Anika Sierk, Jeffrey S. Simons, Raluca M. Simons, Scott R. Sponheim, Dan J. Stein, Murray B. Stein, Jennifer S. Stevens, Thomas Straube, Benjamin Suarez-Jimenez, Marijo B. Tamburrino, Sophia I. Thomopoulos, Nic J.A. van der Wee, Steven J.A. van der Werff, Theo G.M. van Erp, Sanne J.H. van Rooij, Mirjam van Zuiden, Tim Varkevisser, Dick J. Veltman, Robert R.J.M. Vermeiren, Henrik Walter, Li Wang, Xi Zhu, Ye Zhu, Paul M. Thompson, Xin Wang[#], Rajendra A. Morey[#], Israel Liberzon[#] (2022). A mega-analysis of vertex and gyral cortical thickness differences in adults with and without PTSD, to be submitted to **Molecular Psychiatry**, Sept. 2022.

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1. Leow AD, Huang SC, Geng A, Becker JT, Davis SW, Toga AW, **Thompson PM** (2005). *Inverse Consistent Mapping in 3D Deformable Image Registration: Its Construction and Statistical Properties*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005.
2. Fillard P, Arsigny V, Pennec X, **Thompson PM**, Ayache N (2005). *Extrapolation of Sparse Tensor Fields: Application to the Modeling of Brain Variability*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005, Volume 3565/2005, 644-652.
3. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2005). *A Framework for Registration, Statistical Characterization and Classification of Cortically Constrained Functional Data*, Information Processing in Medical Imaging (IPMI) 2005, Glenwood Springs, Colorado, July 11-15, 2005, Volume 3565/2005, pp. 186-196.
4. Wang YL, Chiang MC, **Thompson PM** (2005). *Automated Surface Matching using Mutual Information Applied to Riemann Surface Structures*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 666-674 [only 37.8% of papers accepted].
5. Wang YL, Gu X, Chan T, Hayashi KM, **Thompson PM**, Yau ST (2005). *Brain Surface Conformal Parameterization using Riemann Surface Structure*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 657-665 [only 37.8% of papers accepted].
6. Wang YL, Lui LM, Chan TF, **Thompson PM** (2005). *Optimization of Brain Conformal Mapping using Landmarks*, Medical Image Computing and Computer Assisted Interventions (MICCAI) 2005, Palm Springs, CA, Oct. 26-29, 2005, Part II, pp. 675-683 [only 37.8% of papers accepted].
7. Wang YL, Chiang MC, **Thompson PM** (2005). *Mutual Information-based 3D Surface Matching with Applications to Face Recognition and Brain Mapping*, International Conference on Computer Vision 2005, Beijing, China, Oct. 2005, pp. 527-534 [only 20% of papers accepted].
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- Surface Structures*, Computer Graphics and Imaging, pp. 94-99, IASTED/ACTA Press, 2005.
10. Wang YL, Lui LM, Chan TF, **Thompson PM** (2005). *Combination of Brain Conformal Mapping and Landmarks*, Computer Graphics and Imaging, pp. 70-75, IASTED/ACTA Press, 2005.
 11. Wang YL, Gu X, Chan T, Hayashi KM, **Thompson PM**, Yau ST (2005). *Brain Surface Conformal Parameterization*, Computer Graphics and Imaging, pp. 76-81, IASTED/ACTA Press, 2005.
 12. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Kuller LH, Lopez OL, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Mapping Ventricular Changes Related to Dementia and Mild Cognitive Impairment in a Large Community-Based Cohort*, 3rd IEEE International Symposium on Biomedical Imaging: Macro to Nano, 2006, April 2006, pp. 315 - 318.
 13. Tosun D, Reiss AL, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). *Use of 3-D Cortical Morphometry for Mapping Increased Cortical Gyration and Complexity in Williams Syndrome*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
 14. Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). *Fluid Registration of Medical Images using Jensen-Rényi Divergence Reveals 3D Profile of Brain Atrophy in HIV/AIDS*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
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 16. Lepore N, Leow AD, **Thompson PM** (2006). *Landmark Matching on the Sphere Using Distance Functions*, IEEE International Symposium on Biomedical Imaging (ISBI2006), April 6-9 2006.
 17. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2006). *Hippocampal Surface Analysis Using Spherical Harmonic Function Applied to Surface Conformal Mapping*, International Conference on Pattern Recognition (ICPR), Hong Kong, China, pp. 964-967, IEEE Computer Society, 2006.

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19. Leow AD, Chiang MC, Becker JT, Davis SW, Toga AW, **Thompson PM** (2006). *Realizing Unbiased Deformation: A Theoretical Consideration*, 9th IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), MICCAI2006 Workshop on Mathematical Foundations of Computational Anatomy. Oct. 1-6 2006, Copenhagen, Denmark.
20. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). *A Landmark-Based Brain Conformal Parameterization with an Automatic Landmark Tracking Technique*, 9th IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 308-315.

21. Zheng S, Tu Z, Yuille AL, Reiss AL, Dutton RA, Lee AD, Galaburda A, **Thompson PM**, Dinov ID, Toga AW (2006). A Learning-Based Algorithm for Automated Extraction of the Cortical Sulci, 9th IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 695-703.
22. Wang YL, Gu XF, Chan TF, **Thompson PM**, Yau ST (2006). *Brain Surface Conformal Parameterization with Algebraic Functions*, 9th IEEE Conference on Medical Image Computer and Computer Assisted Intervention (MICCAI2006), Oct. 1-6 2006, Copenhagen, Denmark, Volume 4191/2006, 946-954.
23. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). *Automatic Landmark Tracking and Its Application to the Optimization of Brain Conformal Mapping*, IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), New York, NY, June 2006, pp. 1784-1792, IEEE Computer Society, 2006.

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25. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2007). *Hippocampal Surface Discrimination via Invariant Descriptors of Spherical Conformal Maps*, ISBI 2007, pp. 1316-1319.
26. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *A Finite Element Method for Elastic Parameterization and Alignment of Cortical Surfaces using Sulcal Constraints*, ISBI 2007, accepted, Jan 17 2007.
27. Shi Y, Reiss AL, Lee AD, Dutton RA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Dinov ID, **Thompson PM**, Toga AW (2007). *Hamilton-Jacobi Skeletons on Cortical Surfaces with Applications in Characterizing the Gyrfication Pattern in Williams Syndrome*, ISBI 2007, accepted, Jan 17 2007.
28. Yanovsky I, Chiang MC, **Thompson PM**, Klunder AD, Becker JT, Davis SW, Toga AW, Leow AD (2007). *Quantifying Deformation Using Information Theory*, ISBI 2007.
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30. Yanovsky I, **Thompson PM**, Osher S, Leow AD (2007). *Topology Preserving Log-Unbiased Nonlinear Image Registration: Theory and Implementation*, IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), 2007.

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33. Shi Y, Tu Z, Reiss AL, Dutton RA, Lee AD, Galaburda A, Dinov ID, **Thompson PM**, Toga AW (2007). *Joint*

Sulci Detection Via Belief Propagation, **Information Processing in Medical Imaging**, 2007;20:98-109.

34. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Combining Surface and Volume Registration using Harmonic Maps*, **Information Processing in Medical Imaging 2007**.
35. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Simultaneous Surface and Volume Registration by Harmonic Mappings*, **Proc. SPIE 2007 Medical Imaging Conference**, San Diego, CA, USA, Feb. 17-22 2007.
36. Joshi AA, Shattuck DW, **Thompson PM**, Leahy RM (2007). *Registration of Cortical Surfaces using Sulcal Landmarks for Group Analysis of MEG Data*, **International Congress Series - Proc. Biomag 2006**.

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38. Brun CC, Lepore N, Pennec X, Chou YY, Lopez OL, Aizenstein HJ, Becker JT, Toga AW, **Thompson PM** (2007). *Comparison of Standard and Riemannian Elasticity for Tensor-Based Morphometry in HIV/AIDS*, **MICCAI 2007** Workshop on Image Registration.
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40. Mani M, Chou YY, Lepore N, Klunder AD, de Leeuw J, McMahon K, de Zubicaray GI, Martin N, Wright M, Toga AW, **Thompson PM** (2007). *Mapping Genetic Influences on Brain Shape using Multi-Atlas Fluid Image Alignment*, **FBIT 2007**.
41. Lee AD, Lepore N, Lepore F, Alary F, Voss P, Toga AW, **Thompson PM** (2007). *Brain Differences Visualized in the Blind using Tensor Manifold Statistics and Diffusion Tensor Imaging*, **FBIT 2007**.
42. Lepore N, Chou YY, Lopez OL, Aizenstein HJ, Becker JT, Toga AW, **Thompson PM** (2008). *Fast 3D Fluid Registration of Brain Magnetic Resonance Images*, **SPIE 2008**.

ISBI 2008 and CVPR 2008 Conference Papers:

43. Aganj I, Sapiro G, Parikshak N, Madsen SK, **Thompson PM** (2008), *Segmentation-Free Measurement of Cortical Thickness from MRI*, **5th IEEE International Symposium on Biomedical Imaging: From Nano to Macro, 2008. ISBI 2008**, 14-17 May 2008, pp. 1625-1628.
44. Morra J, Tu Z, Apostolova LG, Green AE, Avedissian C, Madsen SK, Parikshak N, Hua X, Toga AW, Jack CR, Schuff N, Weiner MW, **Thompson PM** (2008). *Automated 3D Mapping of Hippocampal Atrophy and its Clinical Correlates in 400 Subjects with Alzheimer's Disease, Mild Cognitive Impairment, and Elderly Controls*, **ISBI 2008**.
45. Haro G, Lenglet C, Sapiro G, **Thompson PM** (2008). *On the Non-Uniform Complexity of Brain Connectivity*, **ISBI 2008**.
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47. Yanovsky I, **Thompson PM**, Osher SJ, Hua X, Shattuck DW, Toga AW, Leow AD (2008). *Validating Unbiased Registration on Longitudinal MRI Scans from the Alzheimer's Disease Neuroimaging Initiative (ADNI)*, **ISBI 2008**.
48. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Mapping Genetic Influences on Brain Fiber Architecture with High Angular Resolution Diffusion Imaging (HARDI)*, **ISBI 2008**.
49. Chou YY, Lepore N, Barysheva M, Chiang MC, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Quantitative Genetic Modeling of Lateral Ventricular Shape and Volume using Multi-Atlas Fluid Image Alignment in Twins*, **ISBI 2008**.
50. Lee AD, Lepore N, Barysheva M, Chou YY, Brun CA, Madsen SK, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Comparison of Fractional and Geodesic Anisotropy in Diffusion Tensor Images of 90 Monozygotic and Dizygotic Twins*, **ISBI 2008**.
51. Brun CC, Lepore N, Pennec X, Chou YY, Lee AD, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Barysheva M, Toga AW, **Thompson PM** (2008). *A New Registration Method Based on Log-Euclidean Tensor Metrics and its Application to Genetic Studies*, **ISBI 2008**.
52. Lin T, Lee EF, Dinov ID, Le Guyader C, **Thompson PM**, Vese L (2008). *A Landmark-Based Nonlinear Elasticity Model for Mouse Atlas Registration*, **ISBI 2008**.
53. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Brain Surface Conformal Parameterization with the Slit Map*, **ISBI 2008**.
54. Lepore N, Brun CC, Chou YY, Lee AD, Barysheva M, Pennec X, McMahon KL, Meredith M, de Zubicaray GI, Wright MJ, Toga AW, **Thompson PM** (2008). *Best Individual Template Selection from Deformation Tensor Minimization*, **ISBI 2008**.
55. Leow AD, Zhu S, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *The Tensor Distribution Function*, **ISBI 2008**, Biomedical Imaging: From Nano to Macro, 2008. ISBI 2008. 5th IEEE International Symposium on, Paris, France, 14-17 May 2008, page(s): 863-866.
56. Leow AD, Zhu S, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *Probabilistic multi-tensor estimation using the Tensor Distribution Function*, **Computer Vision and Pattern Recognition**, 2008. CVPR 2008. IEEE Conference on, Anchorage, AK, 23-28 June 2008. Digital Object Identifier: 10.1109/CVPR.2008.4587745

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57. Morra J, Tu Z, Apostolova LG, Green AE, Toga AW, **Thompson PM** (2008). *Automatic Subcortical Segmentation Using a Novel Contextual Model*, **MICCAI 2008**.
58. Chiang MC, Barysheva M, Lee AD, Madsen SK, Klunder AD, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Srivastava A, Balov N, **Thompson PM** (2008). *Brain Fiber Architecture, Genetics, and Intelligence: A High Angular Resolution Diffusion Imaging (HARDI) Study*, **MICCAI 2008**. 11(Pt 1):1060-7.

59. Lui LM, Wang YL, **Thompson PM**, Chan TF (2008). *Optimized Conformal Parameterization of Cortical Surfaces Using Shape Based Matching of Landmark Curves*, **MICCAI 2008**, LNCS 5241, pp. 494-502 [peer-reviewed; 36% of papers accepted].
60. Lee AD, Leporé N, Barysheva M, Chou YY, Brun CC, Madsen SK, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Gene Effects Mapped Using Fractional and Geodesic Anisotropy in Diffusion Tensor Images of 92 Monozygotic and Dizygotic Twins*, **MICCAI 2008**.
61. Brun CC, Leporé N, Pennec X, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, Meredith M, McMahon K, Wright MJ, Toga AW, **Thompson PM** (2008). *A Tensor-Based Morphometry Study of Genetic Influences on Brain Structure using a New Fluid Registration Method*, **MICCAI 2008**. 11(Pt 2):914-21.
62. Shattuck DW, Chiang MC, Barysheva M, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, Toga AW, **Thompson PM** (2008). *Visualization Tools for High Angular Resolution Diffusion Imaging*, **MICCAI 2008**. 11(Pt 2):298-305.
63. Liu X, Mio W, Shi Y, Dinov ID, Liu X, Lepore N, Lepore F, Fortin M, Voss P, Lassonde M, **Thompson PM** (2008). *Models of normal variation and local differences in hippocampal anatomy*, **MICCAI 2008**. 11(Pt 2):407-15.
64. Chou YY, Leporé N, Avedissian C, Madsen SK, Hua X, Jack CR, Weiner MW, Toga AW, **Thompson PM** (2009). *Mapping Ventricular Expansion and its Clinical Correlates in Alzheimer's Disease and Mild Cognitive Impairment using Multi-Atlas Fluid Image Alignment*, **SPIE Medical Imaging 2009**, SPIE Paper Number 7259-111, Feb 9 2009 [peer-reviewed, 12 pages].
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66. Zhan L, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Meredith M, Wright MJ, **Thompson PM** (2008). *How Many Gradients are Sufficient in High-Angular Resolution Diffusion Imaging (HARDI)?* **MICCAI 2008**, MICCAI DTI Workshop, 2008.
67. Yanovsky I, Le Guyader C, Leow AD, **Thompson PM**, Vese L (2008). *Nonlinear Elastic Registration with Unbiased Regularization in Three Dimensions*, **MICCAI 2008**, MICCAI Computational Biomechanics (CBM) Workshop, MIDAS Online Open-Access Journal, vol. 220, pp. 56-67, <http://hdl.handle.net/10380/1360>, 2008 [peer-reviewed].
68. Leow AD, Zhu S, Zhan L, McMahon K, de Zubicaray GI, Meredith M, Wright M, **Thompson PM** (2008). *A Study of Information Gain in High Angular Resolution Diffusion Imaging (HARDI)*, **MICCAI 2008**, MICCAI DTI Workshop, 2008.
69. Gutman B, Wang YL, Morra JH, Tu Z, Jack CR, Weiner MW, Toga AW, **Thompson PM** (2008). *Disease Classification with Hippocampal Surface Invariants*, **MICCAI 2008**, Workshop on Hippocampal Mapping (Chair: Paul Yushkevich and Lei Wang), March 2008.
70. Gutman B, Wang YL, Chan TF, **Thompson PM**, Toga AW (2008). *Shape Registration with Spherical Cross Correlation*, 2nd MICCAI Workshop on Mathematical Foundations of Computational Anatomy, pp. 56-67 [peer-reviewed].

71. Leporé N, Brun CC, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, Meredith M, McMahon K, Wright MJ, Toga AW, **Thompson PM** (2008). *Multi-Atlas Tensor-Based Morphometry and its Application to a Genetic Study of 92 Twins*, **MICCAI 2008**, MICCAI Workshop on Mathematical Foundations of Computational Anatomy (MFCA), May 13 2008.
72. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Brain Mapping with the Ricci Flow Conformal Parameterization and Multivariate Statistics on Deformation Tensors*, **MICCAI 2008**, MICCAI Workshop on Mathematical Foundations of Computational Anatomy (MFCA), May 13 2008.
73. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2008). *Conformal Slit Mapping and Its Applications to Brain Surface Parameterization*, International Conference on Medical Image Computing and Computer Assisted Intervention - MICCAI 2008, LNCS 5241, pp. 585-593.
74. Morra JH, Tu Z, Toga AW, **Thompson PM** (2008). *Automatic Segmentation of Multiple Sclerosis Lesions using a Contextual Model*, Workshop Paper at **MICCAI 2008 Segmentation Competition** (peer-reviewed), Sept. 2008.

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76. Goh A, Lenglet C, **Thompson PM**, Vidal R (2009). *A Nonparametric Riemannian Framework for Processing High Angular Resolution Diffusion Images (HARDI)*, **Computer Vision and Pattern Recognition (CVPR) 2009**.

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77. Kim Y, **Thompson PM**, Toga AW, Vese L, Zhan L (2009). *HARDI denoising: variational regularization of spherical Apparent Diffusion Coefficient sADC*, **Information Processing in Medical Imaging, 2009;21:515-27**; Williamsburg, VA, 2009. Paper #87. [12 pages].
78. Shi Y, Morra JH, **Thompson PM**, Toga AW (2009). *Inverse-Consistent Surface Mapping With Laplace-Beltrami Eigen-Features*, **Information Processing in Medical Imaging**, Williamsburg, VA, 2009. Paper #142. [12 pages], in press.

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79. Leow AD, Zhan L, Zhu S, Hageman N, Chiang MC, Barysheva M, Toga AW, **Thompson PM** (2009). *White Matter Integrity Measured by Fractional Anisotropy Correlates Poorly with Actual Individual Fiber Anisotropy*, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
80. Wang Y, Zhang J, Chan TF, Toga AW, **Thompson PM** (2009). *Multivariate Tensor-Based Morphometry and its application to Ventricular Changes in HIV/AIDS*, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
81. Jahanshad N, Lee AD, Chou YY, Lepore N, Brun CC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, Sapiro G, Lenglet C, **Thompson PM** (2009). Reducing Structural Variation to determine the Genetics of white matter integrity across hemispheres – a DTI study of 100 Twins, **Imaging Science and Biomedical**

Imaging (ISBI2009), Boston, MA, 2009 [4 pages].

82. Zhan L, Leow AD, Zhu S, Chiang MC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). Analyzing Multi-Fiber Reconstruction in High Angular Resolution Diffusion Imaging using the Tensor Distribution Function, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
83. Brun CC, Lepore N, Pennec X, Chou YY, Lee AD, Barysheva M, de Zubicaray GI, McMahon KL, Wright MJ, Toga AW, **Thompson PM** (2009). A Lagrangian Formulation for Statistical Fluid Registration, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
84. Lee AD, Lepore N, Brun CC, Barysheva M, Chou YY, Chiang MC, Madsen SK, McMahon KL, de Zubicaray GI, Wright MJ, Toga AW, **Thompson PM** (2009). The Multivariate A/C/E Model and the Genetics of Fiber Architecture, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].
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87. Liu W, Shi Y, Morra JH, Liu X, **Thompson PM**, Mio W (2009). Mapping Hippocampal Atrophy with a Multi-Scale Model of Shape, **Imaging Science and Biomedical Imaging (ISBI2009)**, Boston, MA, 2009 [4 pages].

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88. Morra JH, Tu Z, Toga AW, **Thompson PM** (2009). *Lossless Online Ensemble Learning (LOEL) and its Applications to Subcortical Segmentation*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
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94. Zhan L, Leow AD, Zhu S, Hageman N, Chiang MC, Barysheva M, Toga AW, **Thompson PM** (2009). *What does Fractional Anisotropy (FA) really measure?* **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
95. Wang YL, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Multivariate Tensor-based Brain Anatomical Surface Morphometry via Holomorphic One-Forms*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, London, UK, Sept. 2009 [8 pages].
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97. Zhan L, Leow AD, Barysheva M, Feng A, Toga AW, Sapiro G, Harel N, Lim KO, Lenglet C, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2009). *Investigating the uncertainty in multi-fiber estimation in High Angular Resolution Diffusion Imaging*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, **Workshop on Probabilistic Modeling in Medical Image Analysis (PMMIA)**, ed. Kilian Pohl, Sarang Joshi, Sandy Wells, London, UK, Sept. 2009 [8 pages].
98. Iglesias EJ, **Thompson PM**, Tu Z (2009). *A spatially variant mixture model for diffusion weighted MRI: application to image denoising*, **Medical Image Computing and Computer Assisted Intervention (MICCAI2009)**, **Workshop on Probabilistic Modeling in Medical Image Analysis (PMMIA)**, ed. Kilian Pohl, Sarang Joshi, Sandy Wells, London, UK, Sept. 2009 [8 pages].

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99. Wang YL, Dai W, Chou YY, Gu X, Chan TF, Toga AW, **Thompson PM** (2009). *Studying Brain Morphometry using Teichmuller Space Theory*, **International Conference on Computer Vision (ICCV) 2009**, Kyoto, Japan, September 27 - October 4, 2009, paper ID #2174, [8 pages].
100. Wang YL, Chan TF, Toga AW, **Thompson PM** (2009). *Brain Anatomical Surface Multivariate Tensor-Based Morphometry with Holomorphic Differentials*, **International Conference on Computer Vision (ICCV) 2009**, Kyoto, Japan, September 27 - October 4, 2009, paper ID #1764, [8 pages].

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103. Chou YY, Lepore N, Brun C, Barysheva M, McMahon K, de Zubicaray GI, Wright M, Toga A, **Thompson PM**

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104. Jahanshad N, Zhan L, Bernstein MA, Borowski B, Jack CR, Toga AW, **Thompson PM** (2010). *Diffusion Tensor Imaging in Seven Minutes: Determining Trade-Offs Between Spatial and Directional Resolution*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

105. Lee AD, Lepore N, de Leeuw J, Brun CC, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, **Thompson PM** (2010). *Multivariate Variance-Components Analysis in DTI*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

106. Patel V, Chiang MC, **Thompson PM**, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW (2010). *Scalar Connectivity Measures from Fast Marching Tractography Reveal Heritability of White Matter Architecture*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

107. Chou YY, Lepore N, Madsen SK, Saharan P, Hua X, Jack CR, Shaw LS, Trojanowski JQ, Weiner MW, Toga AW, **Thompson PM** (2010). *Ventricular Maps in 804 Subjects Correlate with Cognitive Decline, CSF Pathology, and Imminent Alzheimer's Disease*, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper].

108. Joshi AA*, Lepore N*, Joshi S, Lee AD, Barysheva M, de Zubicaray GI, Wright MJ, McMahon KL, Toga AW, **Thompson PM** (2010). A Genetic Analysis of Cortical Thickness in 372 Twins, **ISBI 2010**, Rotterdam, The Netherlands, April 14-17, 2010 [4 pages; peer-reviewed paper]. [*equal contribution].

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Computer Vision and Pattern Recognition (CVPR 2010)

112. Lui LM, Wong TW, Zhang W, Gu X, **Thompson PM**, Chan TF, Yau ST (2009). *Compression of Surface Maps using Beltrami Coefficients*, **CVPR 2010**, June 13-18, 2010, San Francisco, CA [8 pages; peer-reviewed paper].

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113. Rachel Aine Yotter¹, **Paul M. Thompson**², Igor Nenadic¹, and Christian Gaser¹ (2010). Estimating Local Complexity Maps using Spherical Harmonic Reconstructions, **MICCAI 2010**, Beijing, Med Image Comput Assist Interv. 2010;13(Pt 2):169-76.

- 114.Lok Ming Lui, Tsz Wai Wong, Tony Chan, **Paul M. Thompson**, Xianfeng Gu, Shing-Tung Yau (2010). Shape-based Diffeomorphic Registration on Hippocampal Surfaces Using Beltrami Holomorphic Flow, **MICCAI 2010**, Beijing, *Med Image Comput Comput Assist Interv.* 2010;13(Pt 2):323-30.
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- 116.Zhan L, Neda Jahanshad¹, Alex D. Leow^{2,3}, Matt A. Bernstein⁴, Bret J. Borowski⁴, Clifford R. Jack Jr.⁴, Arthur W. Toga¹, **Thompson PM** (2010). *Trade-offs between angular and spatial resolution in high angular resolution diffusion imaging measurements*, submitted to the **MICCAI Workshop on Computational Diffusion MRI**, June 8 2010.
- 117.Zhan L¹, Alex D. Leow^{2,3}, Neda Jahanshad¹, Agatha D. Lee¹, Marina Barysheva¹, Arthur W. Toga¹, Katie L. McMahon⁴, Greig I. de Zubicaray⁴, Nicholas G. Martin⁵, Margaret J. Wright⁵, Paul M. Thompson¹ (2010). **Genetic Analysis of High Angular Resolution Diffusion Images (HARDI)**, **MICCAI Workshop on Computational Diffusion MRI**, Sept. 2010.
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- 119.Liu X, Shi Y, Dinov ID, **Thompson PM**, Mio W (2010). A Model of Volumetric Shape for the Analysis of Longitudinal Alzheimer's Disease Data, **ECCV 2010**, [12 pages; peer-reviewed paper; only 27% acceptance rate].
- 120.Brun CC, Natasha Lepore, Xavier Pennec, Yi-Yu Chou, Agatha D. Lee, Marina Barysheva, Greig I. de Zubicaray, Katie L. McMahon, Margaret J. Wright, Paul M. Thompson (2010). A 3D Statistical Fluid Registration Algorithm, **MICCAI International Workshop on Machine Learning in Medical Imaging**, Beijing, China, Sept. 20 2010 [4 pages; peer-reviewed paper], August 2010.
- ISBI 2011 (11 papers accepted)**
- 121.Chiang MC, McMahon KL, de Zubicaray GI, Martin NG, Toga AW, Wright MJ, **Thompson PM** (2011). Hierarchical Clustering of the Genetic Connectivity Matrix Reveals the Network Topology of Gene Action on Brain Microstructure, **ISBI**, 2011.
- 122.Kohannim O, Hibar DP, Stein JL, Jahanshad N, Jack CR, Weiner MW, Toga AW, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). BOOSTING POWER TO DETECT GENETIC ASSOCIATIONS IN IMAGING USING MULTI-LOCUS, GENOME-WIDE SCANS AND RIDGE REGRESSION, **ISBI**, 2011.
- 123.Jahanshad N, Aganj I, Lenglet C, Jin Y, Joshi A, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW, Sapiro G, **Thompson PM** (2011). High angular resolution diffusion imaging (HARDI) tractography in 234 young adults reveals greater frontal lobe connectivity in women, **ISBI** 2011.
- 124.Hibar DP, Jason L. Stein¹, Kohannim O, Jahanshad N, Jack CR, Weiner MW, Toga AW, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). Principal components regression: multivariate, gene-based tests in imaging genomics, **ISBI**, 2011.
- 125.Patel V, Shi Y, **Thompson PM**, Toga AW (2011). K-SVD for HARDI Denoising, **ISBI** 2011.

- 126.Zhan L, Leow AD, Aganj I, Lenglet C, Sapiro G, Yacoub E, Harel N, Toga AW, **Thompson PM** (2011). Differential Information Content in Staggered Multiple Shell HARDI Measured by the Tensor Distribution Function, **ISBI 2011**.
- 127.Villalon J, Joshi AA, Toga AW, **Thompson PM** (2011). Comparison of volumetric image registration algorithms for tensor-based morphometry in 340 adults, **ISBI 2011**.
- 128.Jin Y, Shi Y, Jahanshad N, Aganj I, Sapiro G, Toga AW, **Thompson2 PM** (2011). 3D Elastic Registration Improves HARDI-derived fiber alignment and automated tract clustering, **ISBI 2011**.
- 129.Prasad G, Jahanshad N, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2011). ATLAS-BASED FIBER CLUSTERING FOR MULTI-SUBJECT ANALYSIS OF HIGH ANGULAR RESOLUTION DIFFUSION IMAGING TRACTOGRAPHY, **ISBI 2011**.
- 130.Prasad G, Joshi AA, Shattuck DW, Terzopoulos D, **Thompson PM**, Toga AW (2011). Skull-Stripping with Deformable Organisms, **ISBI 2011**.
- 131.GadElkarim JJ, Zhan L, Yang SL, Zhang AF, Altshuler LL, Lamar M, Ajilore O, **Thompson PM**, Kumar A, Leow AD (2011). TDF-tract: Probabilistic tractography using the Tensor Distribution function, **ISBI 2011**.

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- 132.Prasad G, Kohannim O, Joshi S, Jahanshad N, Villalon J, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2011). **White Matter Tract Analysis in 454 Adults using Maximum Density Paths**, MICCAI 2011 Workshop on Computational Diffusion MRI, Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 133.**Prasad G**, Joshi AA, Barysheva M, Feng A, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Toga AW, Terzopoulos D, **Thompson PM** (2011). **Brain Segmentation using Deformable Organisms and Error Learning**, MICCAI 2011 Workshop on Mathematical Foundations of Computational Anatomy, Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 134.Jin Y, Shi Y, Joshi S, Jahanshad N, Zhan L, Toga AW, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Thompson PM (2011). **Heritability of White Matter Fiber Tract Shapes: A HARDI Study of 198 Twins**, MICCAI 2011 Workshop on Multi-Modal Brain Image Analysis (MBIA), Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 135.Wang YL, Panigrahy A, Shi J, Ceschin R, Nelson MD, Gutman B, **Thompson PM**, Lepore N (2011). *Surface Multivariate Tensor-based Morphometry on Premature Neonates: A Pilot Study*, MICCAI IAHBD Workshop, Image Analysis of Human Brain Development, Sep. 18-22 2011, Toronto, Canada, accepted, in press [full-length peer-reviewed paper; picked as oral talk].
- 136.Shi J, **Thompson PM**, ^[SEP]Wang YL (2011). Human Brain Mapping with Conformal Geometry and Multivariate Tensor-based Morphometry, MICCAI 2011 Workshop on Multi-Modal Brain Image Analysis (MBIA), Sep. 18-22 2011, Toronto, Canada [full-length peer-reviewed paper].
- 137.**Prasad G**, Toga AW, Shattuck DW, **Thompson PM**, Terzopoulos D (2011). Segmenting 3D MR Images of the Brain Using a PCA Atlas and Nonrigid Registration, submitted to **MICCAI 2011**, March 2011.
- 138.**Prasad G**, Kohannim O, Toga AW, Terzopoulos D, **Thompson PM** (2011). Multilinear Projection for MR Brain

Image Classification, submitted to **MICCAI 2011**, March 2011.

139. Jahanshad N, Aganj I, Lenglet C, Jin Y, Joshi AA, Barysheva M, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW, Sapiro G, **Thompson PM** (2011). Genetics of Structural Brain Connectivity Matrices: A HARDI Study of 228 Healthy Young Adult Twins, submitted to **MICCAI 2011**, March 2011.

140. Gutman B, Wang YL, **Thompson PM** (2011). Shape Parameterization with Medial Curves, submitted to **MICCAI 2011**, March 2011.

ISBI 2012 (14 of 17 papers accepted):

141. Zhan L, Daniel Franc^{2,3}, Vishal Patel¹, Neda Jahanshad¹, Yan Jin¹, Bryon A. Mueller³, Matt A. Bernstein⁴, Bret J. Borowski⁴, Clifford R. Jack Jr⁴, Arthur W. Toga¹, Kelvin O. Lim, **Paul M. Thompson**¹ (2012). *How do Spatial and angular resolution affect brain connectivity maps from Diffusion MRI?* **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

142. Omid Kohannim¹, Derrek P. Hibar¹, Neda Jahanshad¹, Jason L. Stein¹, Xue Hua¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, **Paul M. Thompson**¹, and the Alzheimer's Disease Neuroimaging Initiative (2012). PREDICTING TEMPORAL LOBE VOLUME ON MRI FROM GENOTYPES USING L¹-L² REGULARIZED REGRESSION, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

143. Ching CRK, Xue Hua¹, Chadwick Ward³, Jeff Gunter³, Matt A. Bernstein³, Clifford R. Jack Jr³, Michael W. Weiner^{4,5,6}, **Paul M. Thompson** (2011). *Phantom-based MRI Corrections and Power to Track Brain Change*, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

144. Jahanshad N, April Ryles¹, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Margaret J. Wright⁴, Arthur W. Toga¹, and **Paul M. Thompson** (2012). DISCOVERY OF GENES THAT AFFECT HUMAN BRAIN CONNECTIVITY: A GENOME-WIDE ANALYSIS OF THE CONNECTOME, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

145. Neda Jahanshad¹, Omid Kohannim¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Margaret J. Wright⁴, and **Paul M. Thompson** (2012). **DIFFUSION IMAGING PROTOCOL EFFECTS ON GENETIC ASSOCIATIONS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012 [also picked for Oral Presentation].

146. Madelaine Daianu¹, Neda Jahanshad¹, Emily L. Dennis¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Margaret J. Wright^{2,4}, Ian Hickie⁵, **Paul M. Thompson**¹ (2012). **LEFT VERSUS RIGHT HEMISPHERE DIFFERENCES IN BRAIN CONNECTIVITY: 4-TESLA HARDI TRACTOGRAPHY IN 567 TWINS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

147. Emily L. Dennis¹, Neda Jahanshad¹, Arthur W. Toga¹, Kori Johnson^{2,3}, Katie L. McMahon², Greig I. de Zubicaray⁴, Grant Montgomery³, Nicholas G. Martin³, Margaret J. Wright^{3,4}, **Paul M. Thompson** (2012). **CHANGES IN ANATOMICAL BRAIN CONNECTIVITY BETWEEN AGES 12 AND 30: A HARDI STUDY OF 484 ADOLESCENTS AND ADULTS**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012. [also picked for Oral Presentation].

148. A. Leow^{1,2}, L. Zhan³, O. Ajilore¹, J. GadElkarim^{1,3}, A. Zhang¹, D. Arienzo⁵, T. Moody⁵, J. Van Horn⁴, J. Feusner⁵, A. Kumar¹, **P. Thompson**⁴, L. Altshuler (2012). **Measuring Inter-hemispheric Integration in Bipolar Affective Disorder Using Brain Network Analyses and HARDI**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.

149. Boris A. Gutman¹, Yalin Wang^{1,2,3}, Priya Rajagopalan¹, Arthur W. Toga¹, **Paul M. Thompson**¹ (2012).

- Improved Shape Matching with Medial Curves and 1-D Group-Wise Registration, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
150. Cetingul HE, Bijan Afsari, Margaret Wright, Paul Thompson, Rene Vidal (2012). A RIEMANNIAN FRAMEWORK FOR PROCESSING ORIENTATION DISTRIBUTION FUNCTIONS ON THE JOINT ORIENTATION AND SHAPE SPACE, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
151. Joshi S, Joshi AA, Toga AW, de Zubicaray GI, McMahon KL, Wright MJ, Martin NG, **Thompson PM** (2012). Genetic influences on sulcal patterns of the brain, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
152. Talia Nir^{1*}, Neda Jahanshad^{1*}, Clifford R. Jack², Michael W. Weiner³, Arthur W. Toga¹, **Paul M. Thompson¹** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **SMALL WORLD NETWORK MEASURES PREDICT WHITE MATTER DEGENERATION IN PATIENTS WITH EARLY-STAGE MILD COGNITIVE IMPAIRMENT**, **ISBI 2012**, Barcelona, Spain, May 2-5 2012 [also picked for Oral Presentation].
153. Tong M, Kim Y, Zhan L, Sapiro G, Lenglet C, Mueller B, **Thompson PM**, Vese L (2012). A VARIATIONAL MODEL FOR DENOISING HIGH ANGULAR RESOLUTION DIFFUSION IMAGING DATA, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
154. David Wheland, Anand Joshi, Katie McMahon, Narelle Hansell, Nicholas Martin, Margaret Wright, **Paul Thompson**, David Shattuck, Richard Leahy (2012). ROBUST IDENTIFICATION OF PARTIAL-CORRELATION BASED NETWORKS WITH APPLICATIONS TO CORTICAL THICKNESS DATA, **ISBI 2012**, Barcelona, Spain, May 2-5 2012.
155. Yan Jin¹, Yonggang Shi¹, Liang Zhan¹, Jesse A. Brown², Susan Y. Bookheimer³, Arthur W. Toga¹, Greig I. de Zubicaray⁴, Katie McMahon⁴, Nicholas Martin⁵, Margaret J. Wright⁵, **Paul M. Thompson** (2012). **AUTOMATED LABELING OF WHITE MATTER TRACTS IN HARDI BY FUSION OF MULTIPLE TRACT ATLASES**, submitted to **ISBI 2012**, not accepted.
156. Zhan L, Jahanshad N, Lenglet C, Bryon A. Mueller⁴, Guillermo Sapiro³, Noam Harel², Kelvin O. Lim⁴, **Paul M. Thompson¹** (2011). Comparing 7-Tesla and 3-Tesla measures of brain diffusivity and connectivity: A Preliminary Study, submitted to **ISBI 2012**, not accepted.
157. Kohannim O, Derrek P. Hibar¹, Jason L. Stein¹, Neda Jahanshad¹, Xue Hua¹, Priya Rajagopalan¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Greig I. de Zubicaray⁵, Katie L. McMahon⁶, Narelle K. Hansell⁷, Nicholas G. Martin⁷, Margaret J. Wright⁷, **Paul M. Thompson¹**, and the Alzheimer's Disease Neuroimaging Initiative (2012). Discovery and Replication of Gene Effects on Brain Images with Penalized Regression, submitted to **ISBI 2012**, not accepted.
158. J. GadElkarim^{1,3}, O. Ajilore¹, L. Zhan⁴, A.F. Zhang¹, A. Kumar¹, **P.M. Thompson⁴**, A. Leow^{1, 2} (2012). **COMPARISON OF BRAIN NETWORK GENERATION METHODS USING GRAPH THEORY**, submitted to **ISBI 2012**, not accepted.

CVPR 2012

159. Zhan L, Wang YL, **Thompson PM** (2012). *Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using Heat Kernel Signature and Mobius Transformation*, submitted to **CVPR**, Nov 21 2011.

MICCAI 2012

160. GadElkarim, J., D. Schonfeld, O. Ajilore, L. Zhan, A. Zhang, J. Feusner, **P. Thompson**, T. Simon, A. Kumar, and A. Leow, *A Framework for Quantifying Node-Level Community Structure Group Differences in Brain Connectivity Networks*. Medical Image Computing and Computer-Assisted Intervention–MICCAI 2012, 2012: p. 196-203.
161. Zhan L, Wang YL, **Thompson PM** (2012). *Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using Heat Kernel Signature and Mobius Transformation*, **MICCAI 2012**, submitted, March 1 2012.
162. Emily L. Dennis¹, Neda Jahanshad¹, Arthur W. Toga¹, Kori Johnson^{2,3}, Katie L. McMahon², Greig I. de Zubicaray⁴, Nicholas G. Martin³, Ian B. Hickie⁵, Margaret J. Wright^{3,4}, **Paul M. Thompson¹** (2012). **Test-retest Reliability of Graph Theory Measures of Structural Brain Connectivity**, **MICCAI 2012**.
163. Yan Jin¹, Yonggang Shi¹, Liang Zhan¹, Junning Li¹, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright³, and **Paul M. Thompson¹** (2012). Automatic Population HARDI White Matter Tract Clustering by Label Fusion of Multiple Tract Atlases, **MICCAI 2012**, submitted, March 1 2012.
164. Neda Jahanshad, Gautam Prasad, Arthur W. Toga, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright³, and **Paul M. Thompson¹** (2012). Path Lengths in Brain Networks: HARDI-based Anatomical Connectivity Maps in 468 Adults, **MICCAI 2012**, submitted, March 1 2012.
165. Leow, A., L. Zhan, D. Arienzo, J. GadElkarim, A. Zhang, O. Ajilore, A. Kumar, P. Thompson, and J. Feusner, *Hierarchical Structural Mapping for Globally Optimized Estimation of Functional Networks*. Medical Image Computing and Computer-Assisted Intervention–MICCAI 2012, 2012: p. 228-236.

MICCAI 2012 Workshops (12 papers accepted; each 12-page full papers, peer-reviewed)

166. Xue Hua PhD¹, Derrek P. Hibar¹, Christina P. Boyle¹, Christopher R. K. Ching¹, Priya Rajagopalan MD¹, Alex D. Leow MD PhD^{2,3,4}, Arthur W. Toga PhD¹, Clifford R. Jack Jr MD⁴, Michael W. Weiner MD^{5,6,7}, **Paul M. Thompson PhD¹** and the Alzheimer's Disease Neuroimaging Initiative (2012). **Accurate, Unbiased Estimation of Longitudinal Brain Change using Tensor-based Morphometry: Validations on the ADNI Dataset**, **MICCAI NIBAD 2012, submitted, June 15 2012**.
167. Christopher R. K. Ching¹, Xue Hua¹, Derrek P. Hibar¹, Chadwick P. Ward², Jeffrey L. Gunter², Matt A. Bernstein², Clifford R. Jack Jr², Michael W. Weiner^{3,4,5}, **Paul M. Thompson^{1,6}** and the Alzheimer's Disease Neuroimaging Initiative (2012). MRI SCAN ACCELERATION AND POWER TO TRACK BRAIN CHANGE, **MICCAI NIBAD 2012, submitted, June 15 2012**.
168. Talia M. Nir¹, Gautam Prasad¹, Shantanu H. Joshi¹, Julio Villalon¹, Neda Jahanshad¹, Arthur W. Toga¹, Matt A. Bernstein², Bret J. Borowski², Clifford R. Jack², Michael W. Weiner³, **Paul M. Thompson¹**, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **Predicting Future Brain Atrophy from DTI-based Maximum Density Path Analysis in Mild Cognitive Impairment and Alzheimer's Disease**, **MICCAI NIBAD 2012, accepted**.
169. Talia M. Nir^{1*}, Neda Jahanshad^{1*}, Arthur W. Toga¹, Matt A. Bernstein², Bret J. Borowski², Clifford R. Jack², Michael W. Weiner³, **Paul M. Thompson¹**, and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). **Connectivity Network Breakdown Predicts Imminent Volumetric Atrophy in Early Mild Cognitive Impairment**, **MICCAI Multi-Modal Workshop (MBIA) 2012, accepted**.

170. Julio Villalon-Reina¹, Gautam Prasad¹, Shantanu H. Joshi², Maria Jalbrzikowski³, Arthur W. Toga², Carrie E. Bearden^{3,4}, **Paul M. Thompson^{1,4}** (2012). **Statistical Analysis of Maximum Density Path Deformation Fields in White Matter Tracts, MICCAI CDMRI 2012, accepted.**
171. Boris Gutman, Xue Hua, Priya Rajagopalan, Arthur W. Toga, **Paul M. Thompson** (2012). Maximizing Power to Track Alzheimer's Disease Progression by LDA-Based Weighting of Longitudinal Ventricular Surface Features, **MICCAI NIBAD 2012, accepted.**
172. Boris Gutman, Ryan McComb, Jerry Moon, **Paul M. Thompson** (2012). Robust Shape Correspondence via Spherical Patch Matching for Atlases of Partial Skull Models, **MICCAI Mesh Modeling Workshop, accepted.**
173. Daianu M, Jahanshad N, Nir T, **Dennis E**, Toga AW, Jack Jr. CR, Weiner MW, Thompson PM, and the Alzheimer's Disease Neuroimaging Initiative. (2012). Analyzing the Structural k-core of Brain Connectivity Networks in Normal Aging and Alzheimer's Disease. Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders (NIBAD), 15th Medical Image Computing and Computer Assisted Intervention (MICCAI), Nice, 52-62 (peer reviewed conference paper).
174. Liang Zhan, Yalin Wang, **Paul M. Thompson** (2012). Registration of Spherical Functions from High Angular Resolution Diffusion Imaging using the Heat Kernel Signature and Möbius Transformation, **MICCAI CDMRI 2012, accepted.**
175. Yan Jin¹, Yonggang Shi¹, Liang Zhan¹, Junning Li¹, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright³, and **Paul M. Thompson¹** (2012). Automatic Population HARDI White Matter Tract Clustering by Label Fusion of Multiple Tract Atlases, **MICCAI MBIA Workshop 2012, accepted.**
176. Neda Jahanshad, Talia Nir, Clifford R. Jack Jr, Michael W. Weiner, Arthur W. Toga, **Paul M. Thompson** (2012). Boosting power to associate brain connectivity measures and dementia severity using Seemingly Unrelated Regression, **MICCAI NIBAD 2012, Oct 1-4 2012.**
177. Neda Jahanshad, Gautam Prasad, Arthur W. Toga, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright³, and **Paul M. Thompson¹** (2012). Genetics of Path Lengths in Brain Connectivity Networks: HARDI-based Maps in 457 Adults, **MICCAI MBIA workshop, accepted.**
178. Cetingul HE, Sapiro G, Nadar M, **Paul M. Thompson**, Lenglet C (2012). Simultaneous ODF Estimation and Robust Probabilistic Tractography from HARDI, **MICCAI CDMRI 2012, accepted.**

EMBC 2012

179. Cetingul HE, Mariappan Nadar, **Paul Thompson**, Guillermo Sapiro, and Christophe Lenglet (2012). Simultaneous ODF Estimation and Tractography in HARDI, **EMBC 2012.**
180. Lepore N*, Joshi AA*, Brun C, Villalon J, **Thompson PM** (2013). Comparison of 3D image registration algorithms with and without surface constraints for population studies, SIPAIM conference (8th International Seminar on Medical Information Processing and Analysis), San Cristóbal, Venezuela, accepted, 2012; Nov. 12-15 2012 [full-length peer reviewed paper].

ISBI 2013 (8 out of 9 papers accepted)

181. Emily L. Dennis¹, Neda Jahanshad¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray⁴, Nicholas G.

- Martin³, Ian Hickie⁵, Margaret J. Wright^{3,4}, **Paul M. Thompson** (2013). **DEVELOPMENT OF THE “RICH CLUB” IN BRAIN NETWORKS FROM 438 ADOLESCENTS & ADULTS AGED 12 TO 30**, accepted; **ISBI 2013, Jan. 14 2013.**
182. Gautam Prasad, Talia M. Nir, Arthur W. Toga, **Paul M. Thompson** and the ADNI (2013). **TRACTOGRAPHY DENSITY AND NETWORK MEASURES IN ALZHEIMER’S DISEASE**, Proc IEEE Int Symp Biomed Imaging. 2013 Apr;2013:692-695.
183. Gautam Prasad¹, Shantanu H. Joshi², Talia M. Nir¹, Arthur W. Toga², and **Paul M. Thompson¹** (2013). **FLOW-BASED NETWORK MEASURES OF BRAIN CONNECTIVITY IN ALZHEIMER’S DISEASE**, Proc IEEE Int Symp Biomed Imaging. 2013;2013:258-261.
184. Derrek P. Hibar¹, Sarah E. Medland^{2,3}, Jason L. Stein¹, Sungeun Kim⁴, Li Shen⁴, Andrew J. Saykin⁴, Greig I. de Zubicaray⁵, Katie L. McMahon⁶, Grant W. Montgomery², Nicholas G. Martin², Margaret J. Wright^{2,5}, Srdjan Djurovic⁷, Ingrid Agartz⁷, Ole A. Andreassen⁷, **Paul M. Thompson¹** (2013). **GENETIC CLUSTERING ON THE HIPPOCAMPAL SURFACE FOR GENOME-WIDE ASSOCIATION STUDIES**, submitted to **ISBI 2013, Nov. 5 2012.**
185. Liang Zhan¹, Neda Jahanshad¹, Yan Jin¹, Arthur W. Toga¹, Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright^{3,4}, Greig I. de Zubicaray⁴, **Paul M. Thompson¹** (2013). **BRAIN NETWORK EFFICIENCY AND TOPOLOGY DEPEND ON THE FIBER TRACKING METHOD: 11 TRACTOGRAPHY ALGORITHMS COMPARED IN 536 SUBJECTS**, accepted; **ISBI 2013, Jan. 14 2013.**
186. Madelaine Daianu¹, Emily L. Dennis¹, Talia M. Nir¹, Neda Jahanshad¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, **Paul M. Thompson¹** and the Alzheimer’s Disease Neuroimaging Initiative** (2013). **ALZHEIMER’S DISEASE DISRUPTS RICH CLUB ORGANIZATION IN BRAIN CONNECTIVITY NETWORKS**, accepted; **ISBI 2013, Jan. 14 2013.**
187. Kenia Martínez*, ³Julio Villalón-Reina*, ¹ Dominique Kessel, ⁴Anand Joshi, ²Jose Ángel Pineda, ³Neda Jahanshad, ¹Talia Nir, ³Kristian Eschenburg, ¹Francisco J. Román, ⁵Miguel Burgaleta, ²Ana Beatriz Solana, ⁶M. Angeles Quiroga, ¹Roberto Colom, ³**Paul M. Thompson** (2013). **EXPLORATORY FACTOR ANALYSIS OF BRAIN NETWORKS REVEALS SUB-NETWORKS RELATED TO COGNITIVE PERFORMANCE**, accepted; **ISBI 2013, Jan. 14 2013.**
188. Eric C. Chi*, Genevera I. Allen**, Hua Zhou††, Omid Kohanim†, Kenneth Lange*, **Paul M. Thompson†** (2013). **IMAGING GENETICS VIA SPARSE CANONICAL CORRELATION ANALYSIS**, accepted; **ISBI 2013, Jan. 14 2013.**
189. Yan Jin¹, Yonggang Shi¹, Liang Zhan¹, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright^{3,4}, **Paul M. Thompson** (2013). **AUTOMATIC HARDI WHITE MATTER LABELING BY FUSION OF MULTIPLE TRACT ATLASES AND ITS APPLICATION TO GENETICS**, accepted; **ISBI 2013, Jan. 14 2013.**
190. Kristopher Kalish*, **Paul Thompson**, James Becker, Tony Simon, Owen Carmichael (2013). **Brain Region Segmentation Using Point Set Surfaces**, submitted to **ISBI 2013, Nov. 10 2012.**
191. Boris Gutman*, Xue Hua, Arthur Toga, **Paul Thompson** (2013). **"SPATIALLY REGULARIZED DISCRIMINANT ANALYSIS BOOSTS BIOMARKER POWER IN ALZHEIMER’S DISEASE"**, submitted to **ISBI 2013, Nov. 10 2012; withdrawn as it was submitted one hour too late.**

IPMI 2013 (2 papers submitted; peer-reviewed)

192. Prasad G, Shantanu Joshi, Neda Jahanshad, Arthur Toga, **Thompson PM** (2013). Refining Brain Connectivity Analysis to Optimally Identify Disease, to be submitted to IPMI 2013, Dec. 22 2012.
193. Olusola Ajilore¹, Liang Zhan², Johnson J. GadElkarim^{1,3}, Aifeng Zhang¹, Jamie Feusner⁴, Shaolin Yang¹, Anand Kumar¹, **Paul M. Thompson²**, Alex Leow (2013). Constructing the resting state structural connectome, to be submitted to IPMI 2013, Dec. 22 2012.

MICCAI 2013 (Japan; peer-reviewed papers, 8 pages each)

194. Hibar D, Sarah E. Medland², Jason L. Stein¹, Sungeun Kim³, Li Shen³, Andrew J. Saykin³, Greig I. de Zubicaray⁴, Katie L. McMahon⁵, Grant W. Montgomery², Nicholas G. Martin², Margaret J. Wright², Srdjan Djurovic⁶, Ingrid Agartz^{6,7}, Ole A. Andreassen⁶, Paul M. Thompson (2013). **Genetic clustering on the hippocampal surface for genome-wide association studies**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
195. Hibar D, Jason L. Stein¹, Neda Jahanshad¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Grant W. Montgomery⁴, Nicholas G. Martin⁴, Margaret J. Wright⁴, Michael W. Weiner^{5,6}, Paul M. Thompson (2013). **Exhaustive search of the SNP-SNP interactome identifies replicated epistatic effects on brain volume**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
196. Li J*, Jin Y*, Shi Y, Dinov ID, Wang JJ, Toga AW, **Thompson PM** (2013). **Voxelwise Spectral Diffusional Connectivity and its applications to Alzheimer's Disease and Intelligence Prediction**, accepted, **MICCAI 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
197. Cetingul HE, Sapiro G, **Thompson P**, Lenglet C (2013). Importance Sampling Spherical Harmonics to Improve Filtered Probabilistic Tractography, PRNI 2013 conference [full paper], accepted.

MICCAI 2013 Workshops (10 papers)

198. Reynolds G, Nir T, Jahanshad N, **Thompson PM** (2013). Using the raw diffusion MRI signal for classification of Alzheimer's disease using machine learning, **MICCAI MLMI Workshop**, Japan, 2013, submitted.
199. Sarah K. Madsen¹, Boris A. Gutman¹, Shantanu H. Joshi², Arthur W. Toga¹, Clifford R. Jack, Jr.³, Michael W. Weiner^{4,5}, Paul M. Thompson¹, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). **Mapping dynamic changes in ventricular volume onto baseline cortical surface maps in normal aging, MCI, and Alzheimer's disease**, **MICCAI MBIA Workshop**, Japan, 2013, submitted.
200. *Madelaine Daianu¹, Emily L. Dennis¹, Talia M. Nir¹, Jahanshad N, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Paul M. Thompson^{1*} and the Alzheimer's Disease Neuroimaging Initiative* (2013). **Disrupted Brain Connectivity in Alzheimer's Disease: Effects of Network Thresholding**, **MICCAI BC Workshop**, Japan, 2013.
201. Prasad G, Joshi S, Toga AW, **Thompson PM** (2013). **A Dynamical Clustering Model of Brain Connectivity Inspired by the N-Body Problem**, **MICCAI MBIA Workshop**, Japan, 2013, submitted, Sept. 22-26 2013 [12-page paper; peer-reviewed].
202. Emily L. Dennis¹, Liang Zhan¹, Neda Jahanshad¹, Bryon A. Mueller², Yan Jin¹, Christophe Lenglet³, Essa Yacoub³, Guillermo Sapiro⁴, Kamil Ugurbil³, Noam Harel, Arthur W. Toga¹, Kelvin O. Lim², Paul M. Thompson (2013). **Rich Club Analysis of Structural Brain Connectivity at 7 Tesla versus 3 Tesla**, submitted to **MICCAI MMBC Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].

203. Jahanshad N, Peter Kochunov, David Glahn, John Blangero, Thomas E. Nichols, Katie L. McMahon⁵, Greig I. de Zubicaray⁴, Nicholas G. Martin², Margaret J. Wright², Talia Nir, Clifford R. Jack, Jr., Michael W. Weiner, the ADNI, Arthur W. Toga, Paul M. Thompson (2013). **Power Estimates for Voxel-Based Genetic Association Studies using Diffusion Imaging**, submitted to **MICCAI MBIA Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [12-page paper; peer-reviewed].
204. Neda Jahanshad*¹, Priya Bhatt*¹, Derrek P. Hibar¹, Julio E. Villalon¹, Talia M. Nir¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Matthew A. Bernstein², Michael W. Weiner^{3,4}, the Alzheimer's Disease Neuroimaging Initiative (ADNI), Katie L. McMahon⁵, Greig I. de Zubicaray⁶, Nicholas G. Martin⁷, Margaret J. Wright⁷, Paul M. Thompson (2013). **Bivariate genome-wide association study of genetically correlated neuroimaging phenotypes from DTI and MRI through a Seemingly Unrelated Regression model**, submitted to **MICCAI MBIA Workshop 2013**, Nagoya, Japan, Sept. 22-26 2013 [12-page paper; invited paper].
205. Gutman B, Madsen SK, Toga AW, Thompson PM (2013). **A Family of Fast Spherical Registration Algorithms for Cortical Shapes**, submitted to **MICCAI 2013, MeshMed Workshop**, Nagoya, Japan, Sept. 22-26 2013 [8-page paper; peer-reviewed].
- ISBI 2014 (13 papers)**
206. L. Zhan^{1,2}, N. Jahanshad^{1,2}, Y. Jin^{1,2}, T.M. Nir², C. Leonardo², M. Bernstein³, B. Borowski³, Clifford R. Jack Jr.³, P.M. Thompson (2014). **UNDERSTANDING SCANNER UPGRADE EFFECTS ON BRAIN INTEGRITY & CONNECTIVITY MEASURES**, **ISBI 2014, in press.**
207. Kristian Eschenburg, Villalon JE, Jahanshad N, Nir T, Daianu M, ¹Cassandra Leonardo, ³Stella de Bode, ⁴Susan Y. Bookheimer, ⁵Noriko Salamon, **Thompson PM** (2014). **Analysis of Structural Brain Connectivity in 6 Cases of Hemispherectomy**, **ISBI 2014, in press.**
208. *Madelaine Daianu^{1,2}, Neda Jahanshad^{1,2}, Cassandra Leonardo², Julio E. Villalon-Reina², Elvira Jimenez³, Mario F. Mendez³, Paul M. Thompson (2014). **Robust Computation of the Connectivity Network Core, with Applications to Dementia**, submitted to **ISBI 2014.***
209. *Xue Hua PhD^{1*}, Boris A. Gutman PhD^{1*}, Priya Bhatt¹, Derrek P. Hibar PhD¹, Christopher R. K. Ching¹, Alex D. Leow MD PhD^{2,3}, Clifford R. Jack Jr MD⁴, Michael W. Weiner MD⁵, Paul M. Thompson PhD^{1,6} and the Alzheimer's Disease Neuroimaging Initiative*, submitted to **ISBI 2014.**
210. G. K. Reynolds¹, T. M. Nir², N. Jahanshad^{2,3}, G. Prasad², P. M. Thompson (2014). **USING THE RAW DIFFUSION MRI SIGNAL AND THE VON MISES-FISHER DISTRIBUTION FOR CLASSIFICATION OF ALZHEIMER'S DISEASE**, **ISBI 2014, in press.**
211. Nicholus M. Warstadt^{1,2}, Neda Jahanshad^{1,2}, Emily L. Dennis^{1,2}, Omid Kohannim^{1,2}, Katie L. McMahon³, Greig I. de Zubicaray⁴, Grant W. Montgomery⁵, Anjali E. Henders⁵, Nicholas G. Martin⁵, John B. Whitfield⁵, Margaret J. Wright^{3,4}, and Paul M. Thompson (2014). **Identifying Candidate Gene Effects by Restricting Search Space in a Multivariate Genetic Analysis of White Matter Microstructure**, **ISBI 2014, in press.**
212. Prasad G, Joshi SH, **Thompson PM** (2014). **Optimizing Brain Connectivity Networks for Disease Classification**, **ISBI 2014, in press.**
213. Gautam Prasad, Matthew D. Sacchet, Lara C. Foland-Ross, Paul M. Thompson, and Ian H. Gotlib (2014). **Brain Connectivity Classification of Major Depression with Enhanced Training based on Alzheimer's Disease Datasets**, submitted to **ISBI 2014.**

214. Kenia Martínez,² Anand A. Joshi,³ Sarah K. Madsen,⁴ Shantanu Joshi,⁵ Sherif Karama, Francisco J. Román,³ Julio Villalon-Reina,⁶ Miguel Burgaleta,^{3,4} Paul M. Thompson,¹ Roberto Colom (2014). **REPRODUCIBILITY OF BRAIN-COGNITION RELATIONSHIPS USING DIFFERENT CORTICAL SURFACE-BASED ANALYSIS PROTOCOLS, ISBI 2014, in press.**

215. Matthew D. Sacchet^{1,2}, Gautam Prasad^{2,3}, Lara C. Foland-Ross², Paul M. Thompson³, Ian H. Gotlib (2014) ELUCIDATING BRAIN CONNECTIVITY NETWORKS IN MAJOR DEPRESSIVE DISORDER USING CLASSIFICATION-BASED SCORING, **ISBI 2014, in press.**

216. Matthew D. Sacchet^{1,2}, Gautam Prasad^{2,3}, Lara C. Foland-Ross², Shantanu H. Joshi⁴, J. Paul Hamilton⁵, Paul M. Thompson³, Ian H. Gotlib (2014). CHARACTERIZING WHITE MATTER CONNECTIVITY IN MAJOR DEPRESSIVE DISORDER: AUTOMATED FIBER QUANTIFICATION AND MAXIMUM DENSITY PATHS, **ISBI 2014, in press.**

217. L. Zhan^{1,2}, M.A. Bernstein³, B. Borowski³, Clifford R. Jack Jr., P.M. Thompson (2014). **EVALUATION OF DIFFUSION IMAGING PROTOCOLS FOR THE ALZHEIMER'S DISEASE NEUROIMAGING INITIATIVE, ISBI 2014, in press.**

218. Neda Jahanshad^{1,2#}, Peter Kochunov^{3#}, Thomas E. Nichols^{4,5}, Emma Sprooten⁶, René C. Mandl⁷, Laura Almasy⁸, Rachel M. Brouwer⁷, Joanne E. Curran⁸, Greig I. de Zubicaray¹⁰, Rali Dimitrova¹¹, Ravi Duggirala⁸, Peter T. Fox¹², L. Elliot Hong³, Bennett A. Landman¹³, Hervé Lemaitre¹⁴, Lorna Lopez^{9,15}, Nicholas G. Martin¹⁶, Katie L. McMahon¹⁷, Braxton D. Mitchell¹⁸, Rene L. Olvera¹⁹, Charles P. Peterson⁸, John M. Starr^{9,20}, Jessika E. Sussmann²¹, Arthur W. Toga¹, Joanna M. Wardlaw¹³, Margaret J. Wright¹⁴, Susan N. Wright³, Mark E. Bastin^{13,18}, Andrew M. McIntosh²¹, Dorret I. Boomsma²², René S. Kahn⁷, Anouk den Braber²², Eco J.C. de Geus²², Ian J. Deary⁹, Hilleke E. Hulshoff Pol⁷, Douglas Williamson¹⁹, John Blangero⁸, Dennis van 't Ent²², David C. Glahn⁶, Paul M. Thompson (2014). COMBINING META- AND MEGA- ANALYTIC APPROACHES FOR MULTI-SITE DIFFUSION IMAGING BASED GENETIC STUDIES: FROM THE ENIGMA-DTI WORKING GROUP, **ISBI 2014, in press.**

219. Shen *ISBI paper, rejected.*

MICCAI 2014 and MICCAI Workshops (Boston; peer-reviewed papers, 8 pages each)

220. Boris A. Gutman, Neda Jahanshad, Derrek P. Hibar, Cassandra Leonardo, Julio Villalon, Kristian Eschenberg, Talia Nir, Paul M Thompson (2014). **Registering Cortical Surfaces based on Whole-Brain Structural Connectivity and Continuous Connectivity Analysis. MICCAI 2014, Boston, MA, USA, in press.**

221. Vidya Rajagopalan, Armin Schwartzman, Xue Hua, Alex Leow, Paul Thompson, Natasha Lepore (2014). **Multivariate analysis of Eigenvalues and Eigenvectors in tensor based morphometry. SIPAIM 2014: Tenth International Symposium on Medical Information Processing and Analysis, accepted, Colombia, 2014.**

222. Liang Zhan^{1,2}, Nie Zhi³, Yan Jin^{1,2}, Yalin Wang³, Neda Jahanshad^{1,2}, Gautam Prasad^{1,2}, Talia M. Nir^{1,2}, Greig I. de Zubicaray⁴, Katie L. McMahon⁴, Nicholas G. Martin⁵, Margaret J. Wright⁵, Jieping Ye³, Paul M. Thompson^{1,2} Multiple stages classification of Alzheimer's disease based on structural brain networks using Generalized Low Rank Approximations (GLRAM). **MICCAI CDMRI Workshop 2014, Boston, MA, USA, accepted.**

223. Daianu M, Jahanshad N, Nir TM, Leonardo CD, Jack CR Jr, Weiner MW, Bernstein M,

- Thompson PM.** Algebraic connectivity of brain networks shows patterns of segregation leading to reduced network robustness in Alzheimer's disease. **MICCAI'14** Computational Diffusion MRI (CDMRI) Workshop, Boston, MA, USA.
224. Daianu M, Jahanshad N, Villalón-Reina J, Mendez MF, Bartzokis G, Jimenez EE, Joshi A, Barsuglia J, **Thompson PM.** Rich club network analysis shows distinct patterns of disruption in frontotemporal dementia and Alzheimer's disease. **MICCAI'14** Computational Diffusion MRI (CDMRI) Workshop, Boston, MA, USA.
225. Emily L. Dennis¹, Yan Jin¹, Julio E. Villalón¹, Liang Zhan¹, Claudia L. Kernan², Talin Babikian², Christopher C. Giza³, Robert F. Asarnow², Paul M. Thompson^{1,2} (2014). **Tract Clustering Identifies White Matter Disruption in Pediatric Traumatic Brain Injury**, **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
226. Emily L. Dennis^{1,1}, Julio E. Villalón^{1*}, Claudia L. Kernan², Talin Babikian², Christopher C. Giza³, Robert F. Asarnow², Paul M. Thompson^{1,2} (2014). **Comparison of Microstructural White Matter Measures for Detecting Disruption in Pediatric Traumatic Brain Injury**. **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
227. Yan Jin^{1,2}, Yonggang Shi¹, Liang Zhan^{1,2}, Talia M. Nir^{1,2}, Arthur W. Toga¹ and Paul M. Thompson^{1,2} **Automated Multi-atlas Labeling of the Fornix and its Integrity in Alzheimer's Disease**. **MICCAI 2014**, Boston, MA, USA, submitted, Feb. 28 2014.
228. *Mary Ellen Koran ; Bo Li ; Neda Jahanshad ; Tricia A. Thornton-Wells ; David C. Glahn ; Paul M. Thompson ; John Blangero ; Thomas E. Nichols ; Peter Kochunov ; Bennett A. Landman (2014).* On study design in neuroimaging heritability analyses, *Proc. SPIE 9034*, Medical Imaging 2014: Image Processing, 90342P (March 21, 2014); doi:10.1117/12.2043565.
- ISBI 2015 (12 papers accepted)**
229. Dajiang Zhu¹, Liang Zhan¹, Joshua Faskowitz¹, Madelaine Daianu¹, Neda Jahanshad¹, Greig I. de Zubicaray², Katie L. McMahon³, Nicholas G. Martin⁴, Margaret J. Wright⁴, Paul M. Thompson (2015). GENETIC ANALYSIS OF STRUCTURAL BRAIN CONNECTIVITY USING DICCCOL MODELS OF DIFFUSION MRI IN 522 TWINS, ISBI 2015.
230. Ayşe Demirhan^{1,2}, Talia M. Nir², Artemis Zavaliangos-Petropulu², Clifford R. Jack, Jr.³, Michael W. Weiner^{4,5}, Matt A. Bernstein³, Paul M. Thompson, Neda Jahanshad², and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). EFFECT OF FEATURE SELECTION TO IMPROVE THE ACCURACY OF CLASSIFYING ALZHEIMER DISEASE USING DIFFUSION TENSOR IMAGES, ISBI 2015.
231. Christopher R. K. Ching^{1, 2}, Boris A. Gutman², Derrek P. Hibar², Neda Jahanshad², Benson Mwangi³, Jair C. Soares³, Paul M. Thompson (2015) SHAPE MODELING MAY OUTPERFORM GROSS VOLUMETRICS IN DETECTING SUBCORTICAL DIFFERENCES IN BIPOLAR DISORDER, ISBI 2015.
232. Sarah K. Madsen¹, Greg Ver Steeg², Adam Mezher¹, Neda Jahanshad¹, Talia M. Nir¹, Xue Hua¹, Boris A. Gutman¹, Aram Galstyan², Paul M. Thompson¹ and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). INFORMATION-THEORETIC CHARACTERIZATION OF BLOOD PANEL PREDICTORS FOR BRAIN ATROPHY AND COGNITIVE DECLINE IN THE ELDERLY, ISBI 2015.

233. Sarah K. Madsen¹, Greg Ver Steeg², Adam Mezher¹, Neda Jahanshad¹, Talia M. Nir¹, Xue Hua¹, Boris A. Gutman¹, Aram Galstyan², Paul M. Thompson (2015). **RELATIVE VALUE OF DIVERSE BRAIN MRI AND BLOOD-BASED MEASURES FOR PREDICTING COGNITIVE DECLINE IN THE ELDERLY**, ISBI 2015.
234. L. Zhan^{1,2}, N. Jahanshad², J. Faskowitz², G. Prasad², N.G. Martin³, G.I. de Zubicaray⁴, K.L. McMahon⁵, M.J. Wright³, P.M. Thompson (2015). HERITABILITY OF BRAIN NETWORK TOPOLOGY IN 853 TWINS AND SIBLINGS, ISBI 2015.
235. Yan Jin^{1,2}, Yonggang Shi², Liang Zhan^{1,2}, Paul M. Thompson^{1,2} and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2015). AUTOMATED MULTI-ATLAS LABELING OF THE FORNIX AND ITS INTEGRITY IN ALZHEIMER'S DISEASE, ISBI 2015.
236. Emily L. Dennis¹, Yan Jin¹, Claudia Kernan², Talin Babikian², Richard Mink³, Christopher Babbitt⁴, Jeffrey Johnson⁵, Christopher C. Giza⁶, Robert F. Asarnow^{2,7}, Paul M. Thompson (2015). WHITE MATTER INTEGRITY IN TRAUMATIC BRAIN INJURY: EFFECTS OF PERMISSIBLE FIBER TURNING ANGLE, ISBI 2015.
237. Madelaine Daianu¹, Neda Jahanshad¹, Adam Mezher¹, Derrek P. Hibar¹, Talia M. Nir¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Matthew Bernstein², Paul M. Thompson (2015). SPECTRAL GRAPH THEORY AND GRAPH ENERGY METRICS SHOW EVIDENCE FOR THE ALZHEIMER'S DISEASE DISCONNECTION SYNDROME IN *APOE-4* RISK GENE CARRIERS, ISBI 2015.
238. Benjamin S.C. Wade¹, Shantanu H. Joshi², Tara Pirnia², Amber M. Leaver², Roger P. Woods^{2,3}, Paul M. Thompson^{1,3}, Randall Espinoza³, Katherine L. Narr (2015). RANDOM FOREST CLASSIFICATION OF DEPRESSION STATUS BASED ON SUBCORTICAL BRAIN MORPHOMETRY FOLLOWING ELECTROCONVULSIVE THERAPY, ISBI 2015.
239. Benjamin S.C. Wade¹, Victor G. Valcour², Lauren Wendelken-Riegelhaupt², Pardis Esmaeili-Firidouni², Shantanu H. Joshi⁴, Yalin Wang⁵, Paul M. Thompson (2015). MAPPING ABNORMAL SUBCORTICAL BRAIN MORPHOMETRY IN AN ELDERLY HIV+ COHORT, ISBI 2015.
240. Tao Yang, Jie Wang, Qian Sun, Derrek Hibar, Neda Jahanshad, Liang Zhan, Paul Thompson, Jieping Ye (2015). DETECTING GENETIC RISK FACTORS FOR ALZHEIMER'S DISEASE IN WHOLE GENOME SEQUENCING DATA VIA LASSO SCREENING, ISBI 2015.
241. Binbin Lin, Xi Jiang, Jinglei Lv, Qingyang Li, Paul Thompson, Tianming Liu, Jieping Ye (2015). A NOVEL STOCHASTIC COORDINATE CODING APPROACH FOR EFFICIENT SPARSE REPRESENTATION OF RESTING STATE FMRI DATA, ISBI 2015, SUBMITTED.
242. Boris A. Gutman¹, Neda Jahanshad¹, Yalin Wang², Peter V. Kochunov³, Thomas E. Nichols⁴, Paul M. Thompson¹ (2015). MEDIAL DEMONS REGISTRATION LOCALIZES THE DEGREE OF GENETIC INFLUENCE OVER SUBCORTICAL SHAPE VARIABILITY: AN N=1480 META-ANALYSIS, ISBI 2015.
243. Liang Zhan, Yashu Liu, Jiayu Zhou, Jieping Ye, Paul Thompson (2015). BOOSTING CLASSIFICATION ACCURACY OF DIFFUSION MRI DERIVED BRAIN NETWORKS FOR THE SUBTYPES OF MILD COGNITIVE IMPAIRMENT USING HIGHER ORDER SINGULAR VALUE DECOMPOSITION, ISBI 2015.

244.Chenhui Hu, Xiaoxiao LI, JING LI, JIE MA, Xue Hua, Paul Thompson, Quanzheng Li (2015). PREDICTING BRAIN ATROPHY PATTERNS FOR ALZHEIMER'S DISEASE WITH MULTI-GROUP SPARSE VECTOR AUTOREGRESSION, ISBI 2015, SUBMITTED.

IPMI 2015 (3 papers)

245.Michelle Hromatka, Miaomiao Zhang, Greg Fleishman, Boris Gutman, Neda Jahanshad, **Paul Thompson**, P. Thomas Fletcher (2015). A Hierarchical Bayesian Model for Multi-Site Diffeomorphic Image Atlases, IPMI 2015, not submitted.

246.Dajiang Zhu, Binbin Lin, Joshua Faskowitz, Jieping Ye, **Paul Thompson** (2015). Embedded Sparse Representation of fMRI Data via Group-wise Dictionary Optimization, **IPMI 2015, paper accepted.**

247.Boris Gutman, Thomas Fletcher, M. Jorge Cardoso, Greg Fleishman, Marco Lorenzi, **Paul Thompson**, Sebastien Ourselin (2015). A Riemannian Framework for Intrinsic Comparison of Closed Genus-Zero Shapes, **IPMI 2015, paper accepted; also selected for oral presentation.**

248.Greg Fleishman, Boris Gutman, Thomas Fletcher, **Paul Thompson** (2015). Simultaneous Longitudinal Registration with Group-wise Similarity Prior, **IPMI 2015, paper accepted.**

IEEE E-SCIENCE Conference 2014

249.Daniel Garijo, Oscar Corcho, Yolanda Gil, Boris A. Gutman, Ivo D. Dinov, Paul M. Thompson, Arthur W. Toga (2014). FragFlow: Automated Fragment Detection in Scientific Workflows, IEEE E-Science Conference, accepted, July 2014.

250.Daniel Garijo, Oscar Corcho, Yolanda Gil, Meredith N. Braskie, Derrek P. Hibar, Xue Hua, Neda Jahanshad, Paul Thompson, Arthur W. Toga (2014). Workflow Reuse in Practice: A Study of Neuroimaging Pipeline Users, IEEE E-Science Conference, accepted, July 2014.

SPIE Conference 2015

251.Madelaine Daianu^{*a}, Neda Jahanshad^a, Mario F. Mendez^b, George Bartzokis^c, Elvira E. Jimenez^b, Paul M. Thompson (2015). **Global communication brain networks altered in behavioral variant frontotemporal dementia but possibly preserved in early-onset Alzheimer's disease**, *SPIE Medical Imaging, 2015.*

252.Madelaine Daianu^{*a}, Neda Jahanshad^a, Julio E. Villalon-Reina^a, Gautam Prasad^a, Russell E. Jacobs^b, Berislav Zlokovic^c, Axel Montagne^c, Paul M. Thompson (2015). 7T Multi-shell Hybrid Diffusion Imaging (HYDI) for Mapping Brain Connectivity in Mice, *SPIE Medical Imaging, 2015.*

253.Benjamin S.C. Wade¹, Victor Valcour³, Edgar Busovaca², Pardis Esmaeili-Firidouni³, Shantanu H. Joshi⁴, Yalin Wang⁵ Paul M. Thompson (2015). **Subcortical shape and volume abnormalities in an elderly HIV+ cohort**, *SPIE Medical Imaging, 2015.*

254.Greg Fleishman, Boris A. Gutman, Paul M. Thompson (2015). **A transformation similarity constraint for groupwise nonlinear registration in longitudinal brain imaging studies**, *SPIE Medical Imaging, 2015.*

255.Greg ver Steeg, Sarah K. Madsen, Adam Mezher, Neda Jahanshad, Talia M. Nir, Xue Hua, Boris A. Gutman, Aram Galsytan, Paul M. Thompson (2014). **Correlation Explanation for Multi-modal Brain Data**, *Machine Learning in Computational Biology, 2014.*

MICCAI 2015 and MICCAI Workshops (10 Full Peer-Reviewed Papers)

256. Dennis EL, Prasad G, Daianu M, Zhan L, Kernan C, Babikian T, Mink R, Babbitt C, Johnson J, Giza C, Asarnow R, Thompson PM (2015). **Fiber Tracking in Traumatic Brain Injury: Comparison of 8 Tractography Algorithms**, submitted to MICCAI, March 2015.
257. Lin BB, Jiang X, Lv J, Li Q, Thompson PM, Liu T, Ye J (2015). **A Novel Stochastic Coordinate Coding Approach for Efficient Sparse Representation**, submitted to MICCAI, March 2015.
258. Hromatka M, Zhang M, Fleishman GM, Gutman BA, Jahanshad N, Thompson PM, Fletcher PT (2015). **A Hierarchical Bayesian Model for Multi-Site Diffeomorphic Image Atlases**, MICCAI, in press, 2015.
259. Mezher A, Galvis J, Fletcher PT, Zavaliangos-Petropulu A, Villalon-Reina JE, Jahanshad N, **Thompson PM**, Prasad G (2015). EPI distortion techniques for modeling Parkinson's disease, submitted to MICCAI, March 2015.
260. Prasad G, Mackey L, Mehzer A, Galvis J, Ragothaman A, Fletcher PT, **Thompson PM** (2015). Evolving the human connectome for efficient classification of disease, submitted to MICCAI, March 2015.
261. Prasad G, Faskowitz J, Soman S, Becky, Liza, Visha, Terzopoulos D, Rosen A, Zhou W, **Thompson PM** (2015). Multi-modality segmentation of infarcts through multi-level stochastic diffusion search, submitted to MICCAI, March 2015.
262. Prasad G, Shantanu Joshi, Joshua Faskowitz, Katherine Narr, **Paul Thompson** (2015). Learning based maximum density path optimization for analysis of disease, to be submitted to MICCAI, March 2015.
263. Joshua Faskowitz, Shantanu Joshi, Katherine Narr, **Paul Thompson**, Gautam Prasad (2015). Modeling noise and EPI distortion for connectivity based analysis of depression, to be submitted to MICCAI, March 2015.
264. Moyer D, Gutman BA, Prasad G, Ver Steeg G, **Thompson PM** (2015). Mixed Membership Stochastic Block Models for the Human Connectome, MICCAI Bayesian Modeling Workshop, BAMBI, June 8 2015, in press.
265. Wade B, Shantanu H. Joshi², Boris A. Gutman¹, Katherine L. Narr², **Thompson PM** (2015). Machine Learning on High Dimensional Surface-Based Shape Data: A Comparison of Feature Selection and Classification Methods, submitted to MICCAI Machine Learning Workshop, MLMI, in press.
266. Neda Jahanshad¹, Gennady Roshchupkin⁵, Joshua Faskowitz¹, Derrek P. Hibar¹, Boris A. Gutman¹, Hieab H.H. Adams^{3,4}, Wiro J. Niessen⁵, Meike W. Vernooij^{3,4}, M. Arfan Ikram^{3,4,6}, Marcel P. Zwiers⁷, Alejandro Arias Vasquez⁸, Barbara Franke⁸, Alex Ing⁹, Sylvane Desrivieres⁹, Gunter Schumann⁹, Greig I. de Zubicaray^a, Katie L. McMahon^b, Sarah E. Medland^c, Margaret J. Wright^c, **Paul M. Thompson**¹ (2015). Multi-site meta-analysis of image-wide genome-wide associations with morphometry, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.
267. Derrek P. Hibar¹, Neda Jahanshad¹, Sarah E. Medland², **Paul M. Thompson** (2015). Continuous inflation analysis: a threshold-free method to estimate genetic overlap and boost power in imaging genetics, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.
268. Daniel A. Rinker¹, Neda Jahanshad¹, Derrek P. Hibar¹, Katie L. McMahon², Greig I. de Zubicaray³, Margaret J. Wright⁴, **Paul M. Thompson** (2015). Genetic connectivity – correlated genetic control of cortical thickness, brain volume and white matter, **MICCAI Imaging Genetics Workshop**, 2015, IN PRESS.

269. Daianu M, Ver Steeg G, Mezher A, Jahanshad N, Nir TM, Lerman K, Prasad G, Galstyan A, Yan X, **Thompson PM** (2015). Information-Theoretic Clustering of Neuroimaging Metrics Related to Cognitive Decline in the Elderly, *MICCAI Workshop on Medical Computer Vision: Algorithms for Big Data*, in press.
270. Talia M. Nir¹, Julio E. Villalon¹, Boris Gutman¹, Dan Moyer¹, Neda Jahanshad¹, Clifford R. Jack Jr², Michael Weiner³, **Paul M. Thompson¹**, the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Alzheimer's Disease Classification with Novel Microstructural Metrics from Diffusion-Weighted MRI, MICCAI CDMRI (Computational Diffusion MRI) Workshop, June 2015, in press.**
271. J. E. Villalon-Reina¹, T. Nir¹, N. Jahanshad¹, Liang Zhan¹, K. McMahon², G.I. de Zubicaray³, N.G. Martin⁴, M.J. Wright⁴, P. M. Thompson (2015). Reliability of Structural Connectivity Examined with Four Different Diffusion Reconstruction Methods at Two Different Spatial and Angular Resolutions, **MICCAI CDMRI (Computational Diffusion MRI) Workshop, June 2015, in press.**
272. Dajiang Zhu, Neda Jahanshad, Brandalyn Riedel, Liang Zhan, Joshua Faskowitz, Gautam Prasad, **Paul Thompson** (2015), Population Learning of Structural Connectivity by White Matter Encoding and Decoding, **submitted to MICCAI CDMRI (Computational Diffusion MRI) workshop, June 2015.**
273. Dennis EL, Prasad G, Daianu M, Zhan L, Kernan CL, Babikian T, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, **Thompson PM** (2015). Fiber Tracking in Traumatic Brain Injury: Comparison of 9 Tractography Algorithms. *MICCAI: BrainLes 2015*, **accepted; also Platform Talk.**
274. Fleishman G, Fletcher PT, Gutman BA, Prasad G, Wu Y, **Thompson PM** (2015). Geodesic Refinement using James-Stein Estimators, **MICCAI MFCA (Math Foundations of Computational Anatomy) Workshop**, in press.
275. Gutman BA, Fletcher PT, Fleishman G, **Thompson PM** (2015). Reconstructing Karcher Means of Shapes on a Riemannian Manifold of Metrics and Curvatures, **MICCAI MFCA (Math Foundations of Computational Anatomy) Workshop**, in press.
- SIPAIM 2015 (Ecuador; Nov. 2015)**
276. Emily L. Dennis, Gautam Prasad¹, Claudia Kernan², Talin Babikian², Richard Mink³, Christopher Babbitt⁴, Jeffrey Johnson⁵, Christopher C. Giza⁶, Robert F. Asarnow^{2,7}, **Paul M. Thompson (2015). Adaptive Algorithms to Map how Brain Trauma Affects Anatomical Connectivity in Children, SIPAIM 2015, July 2015.**
277. Madelaine Daianu¹, Russell E. Jacobs², Berislav V. Zlokovic³, Axel Montagne³, **Paul M. Thompson (2015). RECONSTRUCTION OF MAJOR FIBERS USING 7T MULTI-SHELL HYBRID DIFFUSION IMAGING IN MICE, SIPAIM 2015, July 2015.**
278. Daniel Moyer, Boris Gutman, Gautam Prasad, Joshua Faskowitz, Greg Ver Steeg, and Paul Thompson, **BLOCKMODELS FOR CONNECTOME ANALYSIS, SIPAIM 2015, July 2015.**
279. Neda Jahanshad¹, Joshua Faskowitz¹, Gennady Roshchupkin⁵, Derrek P. Hibar¹, Boris A. Gutman¹, Nicholas J. Tustison², Heeb H.H. Adams^{3,4}, Wiro J. Niessen⁵, Meike W. Vernooij^{3,4}, M. Arfan Ikram^{3,4,6}, Marcel P. Zwiers⁷, Alejandro Arias Vasquez⁸, Barbara Franke⁸, Jennifer L. Kroll^x, Benson Mwangi^x, Jair C. Soares^x, Alex Ing⁹, Sylvane Desrivieres⁹, Gunter Schumann⁹, Sarah E Medland^c, Narelle K. Hansell, Greig I. de Zubicaray^a, Katie L. McMahon^b, Nicholas G. Martin^c, Margaret J. Wright^c, **Paul M. Thompson (2015). MULTI-SITE META-ANALYSIS OF MORPHOMETRY, SUBMITTED TO THE BIO-KDD WORKSHOP, SYDNEY,**

AUSTRALIA; 14th International Workshop on Data Mining in Bioinformatics, August 10, **2015**.

SPIE 2016

280. Dajiang Zhu, Binbin Lin, Joshua Faskowitz, Jieping Ye, **Paul Thompson** (2015), Embedded Sparse Representation of fMRI Data via Group-wise Dictionary Optimization, **submitted to SPIE**, Aug. 2015.
281. George Hafzalla¹, Gautam Prasad¹, Vatche G. Baboyan¹, Joshua Faskowitz¹, Neda Jahanshad¹, Katie L. McMahon², Greig I. de Zubicaray³, Margaret J. Wright⁴, Meredith N. Braskie¹, and Paul M. Thompson (2015). The heritability of the functional connectome is robust to common nonlinear registration methods, submitted to **SPIE**, Aug. 2015, accepted.
282. Madelaine Daianu^{*a}, Russell E. Jacobs^b, Terrence C. Town, Paul M. Thompson (2015). **Axonal Diameter and Density Estimated with 7-Tesla Hybrid Diffusion Imaging in Transgenic Alzheimer Rats**, submitted to **SPIE**, Aug. 2015.
283. Joshua Faskowitz¹, Greig I. de Zubicaray², Katie L. McMahon³, Margaret J. Wright³, Paul M. Thompson¹, Neda Jahanshad (2015). Comparison of template registration methods for multi-site meta-analysis of brain morphometry, **submitted to SPIE**, Aug. 2015.
284. Justin Galvis^{*1}, Adam F. Mezher^{*1}, Anjanibhargavi Ragothaman¹, Julio E. Villalon-Reina¹, P. Thomas Fletcher², Paul M. Thompson¹, Gautam Prasad (2015). **Effects of EPI Distortion Correction Pipelines on the Connectome in Parkinson's Disease**, submitted to **SPIE**, Aug. 2015.
285. Anjanibhargavi Ragothaman, Conor Corbin, Julio E. Villalon-Reina, Justin Galvis, Adam Mezher, Christopher Ching, Shantanu H. Joshi, Paul M. Thompson, Gautam Prasad (2016). Optimizing Alignments of Diffusion Measures on Maximum Density Paths for Classification in Parkinson's Disease, **submitted to SPIE**, Aug. 2015.

ISBI 2016

286. Wang Q, Zhan L, Thompson PM, Dodge HH, Zhou J (2016). DISCRIMINATIVE FUSION OF MULTIPLE BRAIN NETWORKS FOR EARLY MILD COGNITIVE IMPAIRMENT DETECTION, ISBI 2016, Prague, Czech Republic, in press.
287. Dennis EL, Babikian T, Alger JR, Villalon-Reina JE, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, Thompson PM (2016). Tract-Based Spectroscopy to Investigate Pediatric Brain Trauma, submitted to ISBI 2016, Prague, Czech Republic.
288. Zhu D, Jahanshad N, Riedel B, Zhan L, Faskowitz J, Prasad G, Thompson PM (2016). POPULATION LEARNING OF STRUCTURAL CONNECTIVITY BY WHITE MATTER ENCODING AND DECODING, submitted to ISBI 2016, Prague, Czech Republic.
289. Zhang W, Shi J, Stonnington C, Bauer RJ, Gutman BA, Chen K, Thompson PM, Reiman EM, Caselli RJ, Wang YL (2016). Morphometric Analysis of Hippocampus and Lateral Ventricle Reveals Regional Difference Between Cognitively Stable and Declining Persons, submitted to ISBI 2016, Prague, Czech Republic.
290. Zhang J, Stonnington C, Li Q, Shi J, Bauer RJ, Gutman BA, Chen K, Reiman EM, Thompson PM, Ye J, Wang YL (2016). APPLYING SPARSE CODING TO SURFACE MULTIVARIATE TENSOR-BASED MORPHOMETRY TO PREDICT FUTURE COGNITIVE DECLINE, submitted to ISBI 2016, Prague, Czech Republic.

291. Li Y, Wang J, Yang T, Chen J, Liu L, Zhan L, Hibar DP, Jahanshad N, Wang YL, Zhao D, Thompson PM, Ye J (2016). Identification of Alzheimer's disease risk factors by Tree-Structured Group LASSO Screening, ISBI 2016, Prague, Czech Republic.
292. Li Q, Yang T, Zhan L, Hibar DP, Jahanshad N, Ye J, Thompson PM, Wang J (2016). Large-scale Collaborative Genetic studies of Risk SNPs for Alzheimer's Disease across Multiple Institutions, submitted to ISBI 2016, Prague, Czech Republic.
293. Nir T, Zavaliangos-Petropulu A, Jahanshad N, Villalon-Reina JE, Zhan L, Leow AD, Bernstein MA, Jack, Jr CR, Weiner MW, Thompson PM (2016). DIFFUSION TENSOR DISTRIBUTION FUNCTION METRICS BOOST POWER TO DETECT DEFICITS IN ALZHEIMER'S DISEASE, ISBI 2016, Prague, Czech Republic.
294. Pizzagalli F, Auzias G, Kochunov P, Faskowitz JI, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Jahanshad N, Thompson PM (2016), GENETIC ANALYSIS OF CORTICAL SULCI IN 1,009 ADULTS, submitted to ISBI 2016, Prague, Czech Republic.
295. Moyer D, Gutman B, Jahanshad N, Nir T, Thompson PM (2016). Cluster Weighted Regressions for Connectome Analysis, ISBI 2016, Prague, Czech Republic.
296. Ching CRK, Gutman BA, Zavaliangos-Petropulu A, Sun D, Jonas RK, Lin A, Kushan L, van Amelsvoort T, Bakkar G, Kates WR, Campbell LE, McCabe K, Daly E, Gudbrandsen M, Murphy C, Murphy D, Craig M, Vorstman J, Graz L, Thompson PM, Bearden CE, for the ENIGMA-22q11.2 Working Group (2016). SUBCORTICAL SHAPE MAPS COMPLEMENT STANDARD VOLUMETRICS IN 22q11.2 DELETION AND DUPLICATION SYNDROME, submitted to ISBI 2016, Prague, Czech Republic.
297. Lorenzi M, Gutman B, Hibar DP, Altmann A, Jahanshad N, Thompson PM, Ourselin S (2016). Partial Least Squares Modelling for Imaging-genetics in Alzheimer's Disease: Plausibility and Generalization, ISBI 2016, Prague, Czech Republic.
298. Harrison M, Prasad G, Hafzalla G, Faskowitz J, Jahanshad N, McMahon K, de Zubicaray G, Wright M, Thompson PM (2016). OPTIMIZING THE DISCOVERY OF GENETICALLY INFLUENCED BRAIN CONNECTIVITY NETWORKS USING EPIC, submitted to ISBI 2016, Prague, Czech Republic.
299. Jin Y, Huang C, Daianu M, Zhan L, Zhu H, Thompson PM (2016). 3-D TRACT-SPECIFIC FUNCTIONAL ANALYSIS OF WHITE MATTER INTEGRITY IN ALZHEIMER'S DISEASE, submitted to ISBI 2016, Prague, Czech Republic.
300. Isaev D, Gutman B, Jahanshad N, Nir T, Thompson PM (2016). SURFACE-BASED CONNECTOME REGISTRATION VIA ITERATIVE SPECTRAL REFINEMENT, submitted to ISBI 2016, Prague, Czech Republic.
301. Ragothaman A, Villalon-Reina JE, Galvis J, Corbin C, Mezher A, Ching CRK, Joshi S, Thompson PM, Prasad G (2016). OPTIMIZING ALIGNMENTS OF DIFFUSION MEASURES ON MAXIMUM DENSITY PATHS FOR CLASSIFICATION IN PARKINSON'S DISEASE, submitted to ISBI 2016, Prague, Czech Republic.
- MICCAI 2016 (6 papers accepted)**
302. Q Li ..., Thompson PM, ... (2016). Large-scale Collaborative Imaging Genetics Studies of Risk Genetic Factors for Alzheimer's Disease Across Multiple Institutions, MICCAI 2016, accepted, May 2016, Athens, Greece.

303. Moyer D, Gutman BA, Jahanshad N, Faskowitz J, **Thompson PM** (2016). A Continuous Model of Cortical Connectivity, MICCAI 2016, Athens, Greece [also selected for platform talk].
304. Jie Zhang, ..., Thompson PM, Wang YL (2016). **Hyperbolic Space Sparse Coding with its Application on Prediction of Alzheimer's Disease in Mild Cognitive Impairment**, MICCAI 2016, accepted, May 2016, Athens, Greece.
305. Dennis EL et al. (2016). **Multi-modal Registration Improves Group Discrimination in Pediatric Traumatic Brain Injury**, MICCAI Brain Lesion Workshop, Athens, Greece, 2016, accepted, in press [also Platform Talk].
306. Vikash Gupta, Gautam Prasad, **Paul Thompson** (2016). A volumetric conformal mapping approach for clustering white matter fibers in the brain, MICCAI SESAMI Workshop, **Athens, Greece, 2016**.
307. Villalon JE, Gutman BA, Pasternak O, ..., **Thompson PM** (2016). Multichannel Diffusion MRI for Predicting Alzheimer's Disease with a TV-L1 prior, MICCAI CD-MRI Workshop, **Athens, Greece, 2016** [accepted, in press].
308. Rutger H.J. Fick, Madelaine Daianu, **Paul M. Thompson**, Terrence Town, and Rachid Deriche (2016). A Longitudinal Diffusion MRI Study of Transgenic Alzheimer Rats using Higher Order Models, submitted to MICCAI CD-MRI Workshop, **accepted, in press, Athens, Greece, 2016**.
- SIPAIM 2016 (Tandil, Argentina – all peer-reviewed, full-length papers; 9 papers accepted)**
309. Dajiang Zhu, Qingyang Li, Brandalyn C. Riedel, Neda Jahanshad, Derrek P. Hibar, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Matthew D. Sacchet, Ian H. Gotlib, Jieping Ye, Paul M. Thompson (2016). Large-scale classification of major depressive disorder via distributed Lasso, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].
<http://dx.doi.org/10.1117/12.2256935>
310. Marco Lorenzi, Boris Gutman, Paul M. Thompson, Daniel C. Alexander, Sebastien Ourselin, and Andre Altmann (2016). Secure multivariate large-scale multi-centric analysis through on-line learning: An imaging genetics case study, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256799>
311. Dmitry Isaev, Boris A. Gutman, Daniel Moyer, Joshua Faskowitz, and Paul M. Thompson (2016). Cortical Connectome Registration Using Spherical Demons, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].
<http://dx.doi.org/10.1117/12.2256975>
312. Fabrizio Pizzagalli, Guillaume Auzias, Peter Kochunov, Joshua I. Faskowitz, Paul M. Thompson, Neda Jahanshad (2016). The Core Genetic Network Underlying Sulcal Morphometry, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256959>
313. Marc B. Harrison, Brandalyn C. Riedel, Gautam Prasad, Joshua Faskowitz, Paul M. Thompson (2016). Using brain measures for large-scale classification of autism applying EPIC, SPIE 12th International

- Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256870>
314. Vikash Gupta, Gautam Prasad and Paul Thompson (2016). Clustering white matter fibers using support vector machines: A volumetric conformal mapping approach, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256974>
315. Dmitry Y. Isaev, Talia M. Nir, Neda Jahanshad, Julio E. Villalon-Reina, Liang Zhan, Alex D. Leow, Paul M. Thompson (2016). Improved Clinical Diffusion MRI Reliability using a Tensor Distribution Function compared to a Single Tensor, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2257281>
316. Artemis Zavaliangos-Petropulu, Emily L. Dennis, Greg Ver Steeg, Talin Babikian, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2016). Variable Clustering Reveals Associations between Subcortical Brain Volume and Cognitive Changes in Pediatric Traumatic Brain Injury, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256977>
317. Emily L. Dennis, Jeffrey R. Alger, Talin Babikian, Faisal Rashid, Julio E. Villalon-Reina, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2016). Tract-Based Spectroscopy To Investigate Pediatric Brain Trauma, SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper].
318. Juan S. Celis A. ; Nelson F. Velasco T. ; Julio E. Villalon-Reina ; Paul M. Thompson ; Eduardo Romero C. (2016). Bayesian super-resolution in brain diffusion weighted magnetic resonance imaging (DW-MRI), SPIE 12th International Symposium on Medical Information Processing and Analysis (SIPAIM), Tandil, Argentina [full peer-reviewed paper]. <http://dx.doi.org/10.1117/12.2256918>.

Brain-KDD Conference 2016

319. Zhang G, Kochunov P, Hong E, Jahanshad N, **Thompson PM**, Chen J (2016). ENIGMA-Viewer: Interactive Visualization Strategies for Conveying Effect Sizes in Meta-Analysis, submitted to BrainKDD: The 3rd International Workshop on Data Mining and Visualization for Brain Science (in conjunction with ACM Conference on Bioinformatics, Computational Biology, and Health Informatics – BCB16 - October 2 2016, Seattle, USA), accepted, in press.

IPMI 2017 (3 papers submitted)

320. Greg Fleishman, Thomas Fletcher, Paul M. Thompson (2017). Symmetric Interleaved Geodesic Shooting in Diffeomorphisms, **IPMI 2017**, NC, USA.
321. Daniel Moyer, Boris A. Gutman, Neda Jahanshad, Paul M. Thompson (2017). A Restaurant Modulated Model for Connectivity Based Parcellation of the Cortex, **IPMI 2017**, NC, USA.

322. Jie Zhang*, Qingyang Li*, Richard J. Caselli, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Multi-Source Multi-Target Dictionary Learning for Prediction of Cognitive Decline, **IPMI 2017**, NC, USA.

ISBI 2017 (13 papers submitted, and 3 more with other PIs)

323. Dajiang Zhu, Qingyang Li, Brandalyn C. Riedel, Neda Jahanshad, Derrek P. Hibar, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Udo Dannlowski, Matthew D. Sacchet, Ian H. Gotlib, Pedro Rosa, Geraldo Busatto Filho, Maristela S. Schaufelberger, Fabio L. S. Duran, Steven van der Werff, Nic van der Wee, Tony Yang, Tiffany Ho, Ben J. Harrison, Christopher G. Davey, Jieping Ye, Paul M. Thompson (2017). Multi-site Classification of Major Depressive Disorder Using Distributed LASSO, **ISBI 2017**, Melbourne, Australia, 2017.

324. Faisal M. Rashid, Emily L. Dennis, Julio E. Villalon-Reina, Yan Jin, David F. Tate, Jeffrey D. Lewis, Gerald E. York, Paul M. Thompson (2017). Examination of Cortico-thalamic Fiber Projections of U.S. Service Members with Mild Traumatic Brain Injury, **ISBI 2017**, Melbourne, Australia, 2017.

325. Vikash Gupta, Faisal M. Rashid, Ratnesh Kumar, Paul M. Thompson (2017). FiberNet: A Deep Learning Framework for Automatic Segmentation for White Matter Tracts in the Brain, **ISBI 2017**, Melbourne, Australia, 2017.

326. Greg M. Fleishman, Paul Thompson (2017). Adaptive Gradient Descent Optimization of Initial Momenta For Geodesic Shooting in Diffeomorphisms, **ISBI 2017**, Melbourne, Australia, 2017.

327. Greg M. Fleishman, Paul Thompson (2017). The Impact of Image Matching Functional on Atrophy Estimation with Geodesic Shooting in Diffeomorphisms, **ISBI 2017**, Melbourne, Australia, 2017.

328. Lauren E. Salminen, Rajendra Morey, Brandalyn C. Riedel, Marc Harrison, Dajiang Zhu, Neda Jahanshad, Emily L. Dennis, Paul M. Thompson (2017). Adaptive Network of Cortical and Subcortical Correlates of Early Life Stress and Posttraumatic Stress Disorder with EPIC, **ISBI 2017**, Melbourne, Australia, 2017.

329. Brandalyn Riedel, Neda Jahanshad, Paul Thompson (2017). Graph Theoretical Approaches Towards Understanding Differences in Frontoparietal and Default Mode Networks in Autism, **ISBI 2017**, Melbourne, Australia, 2017.

330. Brandalyn C. Riedel, Marc B. Harrison, Dajiang Zhu, Gautam Prasad, Neda Jahanshad, Ilya M. Veer, Henrik Walter, Lianne Schmaal, Dick J. Veltman, Dominik Grotegerd, Matthew D. Sacchet, Ian H. Gotlib, Pedro Rosa, Christopher G. Davey, Ben J. Harrison, Udo Dannlowski, Jair D. Soares, Benson Irungu, Paul M. Thompson (2017). Identifying Brain Measures for Large-scale Classification of Major Depressive Disorder using EPIC, **ISBI 2017**, Melbourne, Australia, 2017.

331. Dmitry Petrov, Boris Gutman, Alexander Ivanov, Joshua Faskowitz, Neda Jahanshad, Mikhail Belyaev, Paul Thompson (2017). Structural Connectome Validation Using Fingerprinting, **ISBI 2017**, Melbourne, Australia, 2017.

- 332.Emily L. Dennis, Faisal Rashid, Neda Jahanshad, Talin Babikian, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Robert F. Asarnow, Paul M. Thompson (2017). A Network Approach to Examining Injury Severity in Pediatric TBI, **ISBI 2017**, Melbourne, Australia, 2017.
- 333.Emily L. Dennis, Faisal Rashid, Josh Faskowitz, Yan Jin, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Ian Hickie, Margaret J. Wright, Neda Jahanshad, Paul M. Thompson (2017). Mapping Age Effects Along Fiber Tracts in Young Adults, **ISBI 2017**, Melbourne, Australia, 2017.
- 334.Boris A. Gutman, Fabrizio Pizzagalli, Neda Jahanshad, Margaret J. Wright, Paul M. Thompson (2017). Approximating Principal Genetic Components of Subcortical Shape, **ISBI 2017**, Melbourne, Australia, 2017.
- 335.George W. Hafzalla, Anjanibhargavi Ragothaman, Joshua Faskowitz, Neda Jahanshad, Katie L. McMahon, Greig I. de Zubicaray, Margaret J. Wright, Meredith N. Braskie, Gautam Prasad, and Paul M. Thompson (2017). A Comparison of Network Definitions for Detecting Sex Differences in Brain Connectivity using Support Vector Machines, **ISBI 2017**, Melbourne, Australia, 2017.
- 336.Wen Zhang, Jie Shi, Jun Yu, Liang Zhan, Paul M. Thompson, Yalin Wang (2017). Enhancing Diffusion MRI Measures by Integrating Grey and White Matter Morphometry with Hyperbolic Wasserstein Distance, **ISBI 2017**, Melbourne, Australia, 2017.
- 337.Jie Zhang, Yonghui Fan, Qingyang Li, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Empowering Cortical Thickness Measures in Clinical Diagnosis of Alzheimer's Disease with Spherical Sparse Coding, **ISBI 2017**, Melbourne, Australia, 2017.
- 338.Benjamin S.C. Wade, Jing Sui, Stephanie Njau, Amber M. Leaver, Megha Vasvada, Boris A. Gutman, Paul M. Thompson, Randal Espinoza, Roger P. Woods, Christopher C. Abbott, Katherine L. Narr, Shantanu H. Joshi (2017). Data-driven Cluster Selection for Subcortical Shape and Cortical Thickness Predicts Recovery from Depressive Symptoms, **ISBI 2017**, Melbourne, Australia, 2017.

KDD 2017 and IJCAI 2017

- 339.Qi Wang, Mengying Sun, Liang Zhan, Paul Thompson, Shuiwang Ji, and Jiayu Zhou. 2017. Multi-Modality Disease Modeling via Collective Deep Matrix Factorization. In Proceedings of KDD 2017, Halifax, Canada.
- 340.Ayush Jaiswal, Dong Guo, Cauligi S. Raghavendra, Paul Thompson (2017). sBMRI-Net: Deep Representation Learning for Brain Structure, submitted to IJCAI 2017, Feb. 19 2017.

MICCAI 2017 (7 papers accepted to main conference or workshops)

- 341.Dajiang Zhu, Brandalyn C. Riedel, Neda Jahanshad, Nynke Groenewold, Dan Stein, Ian H. Gotlib, Danai Dima, James Cole, Cynthia H.Y. Fu, Henrik Walter, Ilya M. Veer, Thomas Frodl, Lianne Schmaal, Dick J. Veltman, Paul M. Thompson (2017). Classification of Major Depressive Disorder via Multi-Site Weighted LASSO Model, MICCAI 2017, accepted, in press.

342. Vikash Gupta, Sophia Thomopoulos, Faisal Rashid, Paul Thompson (2017). FiberNet: An ensemble deep learning framework for clustering white matter fibers in the brain, MICCAI 2017, accepted, in press.
343. Dmitry M **Petrov**, Alexander Ivanov, Joshua Faskowitz, Boris Gutman, Daniel Moyer, Julio Villalon, Neda Jahanshad, Paul **Thompson** (2017). Evaluating 35 Methods to Generate Structural Connectomes Using Pairwise Classification, MICCAI 2017, accepted, in press.
344. Anvar Kurmukov, Marina Ananyeva, Yulia Dodonova, Boris Gutman, Joshua Faskowitz, Neda Jahanshad, Paul Thompson, and Leonid Zhukov (2017). **Classifying phenotypes based on the community structure of human brain networks**, MICCAI GRAIL Workshop 2017, in press.
345. Mikhail Belyaev, Yulia Dodonova, Daria Belyaeva, Egor Krivov, Boris Gutman, Joshua Faskowitz, Neda Jahanshad, Paul Thompson (2017). Using Geometry of the Manifold of Symmetric Positive Semidefinite Matrices to Classify Structural Brain Networks, MICCAI 2017, submitted.
346. Jie Zhang, Yanshuai Tu, Qingyang Li, Richard J. Caselli, Paul M. Thompson, Jieping Ye, Yalin Wang (2017). Multi-task Feature Selection Sparse Coding for Predicting Future Clinical Scores using Longitudinal Cortical Thickness Measures, MICCAI 2017, submitted.
347. Zhipeng Ding¹, Greg Fleishman^{3,4}, Xiao Yang¹, Paul Thompson³, Roland Kwitt⁴, Marc Niethammer^{1,2}, The Alzheimer's Disease Neuroimaging Initiative (2017). Fast Predictive Simple Geodesic Regression, **MICCAI** DLMIA (Deep Learning in Medical Image Analysis) workshop, accepted, Sept. 2017.

MICCAI MLMI 2017

348. Moyer DC, Gutman BA, Jahanshad N, Thompson PM (2017). **Product Space Decompositions for Continuous Representations of Brain Connectivity**, **MICCAI MLMI 2017** workshop, June 2017.
349. Dmitry M Petrov, Boris A. Gutman, Shih-Hua (Julie) Yu, Theo G. M. van Erp, Jessica A. Turner, Lianne Schmaal, Dick Veltman, Lei Wang, Kathryn Alpert, Dmitry Isaev, Artemis Zavaliangos-Petropulu, Christopher R. K. Ching, Vince Calhoun, David Glahn, Ted Sattertwate, Ole Andreas Andreasen, Stefan Borgwardt, Fleur Howells, Nynke Groenewold, Aristotle Voineskos, Joaquim Radua, Steven G. Potkin, Benedicto Crespo-Facorro, Diana Tordesillas-Gutierrez, Li Shen, Irina Lebedeva, Gianfranco Spalletta, Gary Donohoe, Peter Kochunov, Pedro G. P. Rosa, Anthony James, Udo Dannlowski, Bernhardt T. Baune, Andre Aleman, Ian H. Gotlib, Henrik Walter, Martin Walter, Jair C. Soares, Ruben C. Gur, N. Trung Doan, Ingrid Agartz, Lars T. Westlye, Fabienne Harrisberger, Anita Riecher-Rössler, Anne Uhlmann, Dan J. Stein, Erin W. Dickie, Edith Pomarol-Clotet, Paola Fuentes-Claramonte, Erick Jotge Canales-Rodriguez, Raymond Salvador, Alexander J. Huang, Roberto Roiz-Santianez, Shan Cong, Alexander Tomyshev, Fabrizio Piras, Daniela Vecchio, Nerisa Banaj, Valentina Ciullo, Elliot Hong, Geraldo Busatto, Marcus V. Zanetti, Mauricio H. Serpa, Simon Cervenka, Sinead Kelly, Dominik Grotegerd, Matthew D. Sacchet, Ilya M. Veer, Meng Li, Mon-Ju Wu, Benson Irungu, Paul M. Thompson (2017). Machine Learning for Large-Scale Quality Control of 3D Shape Models in Neuroimaging, biorXiv, July 2017 - <http://www.biorxiv.org/content/early/2017/07/21/166496>

SIPAIM 2017 (3 papers)

350. Faisal M. Rashid^{*a}, Emily L. Dennis^a, Julio E. Villalon-Reina^a, Yan Jin^a, Jeffrey D. Lewis^b, Gerald E. York^c, Paul M. Thompson^{a,d}, David F. Tate (2017). Examination of corticothalamic fiber projections in United States service members with mild traumatic brain injury, **SIPAIM 2017**, in press.
351. Emily L. Dennis¹, Faisal Rashid¹, Talin Babikian^{2,6}, Richard Mink³, Christopher Babbitt⁴, Jeffrey Johnson⁵, Christopher C. Giza⁶, Robert F. Asarnow^{2,7}, Paul M. Thompson^{1,2,8} (2017). **Altered Network Topology in Pediatric Traumatic Brain Injury**, **SIPAIM 2017**, in press.
352. Mark S. Shiroishi^{1,2,3*#}, Vikash Gupta^{1#†}, Bavrina Bigjahan², Steven Y. Cen², Faisal Rashid^{1†}, Darryl Hwang², Alexander Lerner², Orest B. Boyko², Chia-Shang Jason Liu¹, Meng Law², Paul M. Thompson^{1†}, Neda Jahanshad^{1†} (2017). **Brain cortical structural differences between non-central nervous system cancer patients treated with and without chemotherapy compared to non-cancer controls: a cross-sectional pilot MRI study using clinically-indicated scans**, **SIPAIM 2017**, in press.

PSB 2018

353. Bhim M. Adhikari^{*}, Neda Jahanshad^{*}, Dinesh Shukla, David Glahn, Richard C. Reynolds, Robert W. Cox, Els Fieremans, Jelle Veraart, Dmitry S. Novikov, L. Elliot Hong, Paul M. Thompson, Peter Kochunov (2018). **Heritability estimates on resting state fMRI data using the ENIGMA analysis pipeline**, **PSB 2018**.
354. Yang Q, Roshchupkin G, Niessen W, Medland SE, Zhu A, Thompson PM, Jahanshad N (2017). A Fast, Accurate Two-Step Linear Mixed Model approach for Genetic Analysis applied to Repeat MRI measurements from the UK Biobank, **submitted to PSB 2018, Aug. 15 2017**.
355. MiHyun Jang, Tejal Patted, Yolanda Gil, Daniel Garijo, Varun Ratnakar, Jie Ji, Prince Wang, Agnes McMahon, Paul M. Thompson, and Neda Jahanshad (2017). Towards **Automatic Generation of Portions of Scientific Papers for Large Multi-Institutional Collaborations based on Semantic Metadata**, International Semantic Web Conference (ISWC), in press.
356. Nikita Mokrov, Maxim Panov, Boris A. Gutman, Joshua I. Faskowitz, Neda Jahanshad and Paul M. Thompson (2017). **Simultaneous Matrix Diagonalization for Structural Brain Networks Classification**, Complex Networks 2017, Lyon, France, submitted, Sept. 17 2017.

ISBI 2018 (3 papers accepted)

357. Jie Zhang^{*}, Qingyang Li, Richard Caselli, Paul Thompson, Jieping Ye, Yalin Wang (2018). Transferring Knowledge from ImageNet to Alzheimer's Disease by Deep Multi-ROI Learning, **submitted to ISBI 2018**.
358. Jie Zhang^{*}, Yanshuai Tu, Qingyang Li, Richard Caselli, Paul Thompson, Jieping Ye, Yalin Wang (2018). Multi-Task Sparse Screening for Predicting Future Clinical Scores using Longitudinal Cortical Thickness Measures, **ISBI 2018**.
359. Emily Dennis^{*}, Elisabeth Wilde, Randall Scheibel, Maya Troyanskaya, Carmen Velez, Benjamin Wade, Ann Marie Drennon, Gerald E. York, Erin D. Bigler, Tracy Abildskov, Brian Taylor, Carlos Jaramillo, Blessen Eapen, Heather Belanger, Mary Newsom, Harvey Levin, Sidney Hinds, William Walker, Paul

- Thompson, David Tate (2018). ENIGMA Military Brain Injury: A Coordinated Meta-Analysis of Diffusion MRI from Multiple Cohorts, ISBI 2018, April 2018.
360. Vikash Gupta*, Sophia I Thomopoulos, Conor Corbin, Faisal Rashid, Paul Thompson (2018). FiberNet 2.0: An automatic neural network based tool for clustering white matter fibers in the brain, ISBI 2018.
361. Conor Corbin*, Vikash Gupta, Julio Villalon-Reina, Talia M. Nir, Faisal Rashid, Sophia I Thomopoulos, Neda Jahanshad, Paul Thompson (2018). White Matter Alterations Mapped in Parkinson's Disease Using Tractometry, submitted to ISBI 2018.
362. Tao Yang, **Paul M. Thompson**, Jieping Ye, Sihai Zhao (2018). Identifying Genetic Risk Factors via Sparse Group Lasso with Group Graph Structure, submitted to IJCAI-ECAI-2018, Jan. 15 2018.
- MICCAI 2018**
363. Moyer DC, ver Steeg G, Thompson PM (2018). Parcellation-Free Analysis of Brain Connectivity, submitted to MICCAI 2018, March 2 2018.
364. Ayush Jaiswal, Dong Guo, Cauligi S. Raghavendra, Paul Thompson (2018). Large-Scale Unsupervised Deep Representation Learning for Brain Structure, **submitted to MICCAI 2018, March 2 2018.**
365. Nir TM, Lam HY, Ananworanich J, Boban J, Brew BJ, Cysique L, Fouche JP, Kuhn T, Porges ES, Law M, Paul R, Thames A, Woods AJ, Valcour VG, Thompson PM, Cohen RA, Stein DJ, Jahanshad N, for the ENIGMA-HIV Working Group (2018). Effects of diffusion MRI model and harmonization on the consistency of findings in an international multi-cohort HIV neuroimaging study. *2018 MICCAI Workshop on Computational Diffusion MRI (CDMRI) (full peer-reviewed paper), Granada, Spain 2018.*
366. Moyer DC, **Thompson PM**, ver Steeg G (2018). Measures of Tractography Convergence, MICCAI CDMRI Workshop 2018, **Granada, Spain**. [Also awarded best Oral Talk of CDMRI].
367. Alyssa H. Zhu, Daniel C. Moyer, Talia M. Nir, Paul M. Thompson, Neda Jahanshad (2018). **Challenges and opportunities in diffusion MRI data harmonization**, invited review paper for the MICCAI CDMRI Workshop, Granada, Spain, 2018.
368. Dmitry M Petrov, Boris A. Gutman, Shih-Hua (Julie) Yu, Theo G. M. van Erp, Jessica A. Turner, Lianne Schmaal, Dick Veltman, Lei Wang, Kathryn Alpert, Dmitry Isaev, Artemis Zavaliangos-Petropulu, Christopher R. K. Ching, Vince Calhoun, David Glahn, Ted Sattertwate, Ole Andreas Andreasen, Stefan Borgwardt, Fleur Howells, Nynke Groenewold, Aristotle Voineskos, Joaquim Radua, Steven G. Potkin, Benedicto Crespo-Facorro, Diana Tordesillas-Gutierrez, Li Shen, Irina Lebedeva, Gianfranco Spalletta, Gary Donohoe, Peter Kochunov, Pedro G. P. Rosa, Anthony James, Udo Dannlowski, Bernhardt T. Baune, Andre Aleman, Ian H. Gotlib, Henrik Walter, Martin Walter, Jair C. Soares, Ruben C. Gur, N.

Trung Doan, Ingrid Agartz, Lars T. Westlye, Fabienne Harrisberger, Anita Riecher-Rössler, Anne Uhlmann, Dan J. Stein, Erin W. Dickie, Edith Pomarol-Clotet, Paola Fuentes-Claramonte, Erick Jotge Canales-Rodriguez, Raymond Salvador, Alexander J. Huang, Roberto Roiz-Santianez, Shan Cong, Alexander Tomyshev, Fabrizio Piras, Daniela Vecchio, Nerisa Banaj, Valentina Ciullo, Elliot Hong, Geraldo Busatto, Marcus V. Zanetti, Mauricio H. Serpa, Simon Cervenka, Sinead Kelly, Dominik Grotegerd, Matthew D. Sacchet, Ilya M. Veer, Meng Li, Mon-Ju Wu, Benson Irungu, **Paul M. Thompson** (2018). Deep Learning for Quality Control of Subcortical Brain 3D Shape Models, **MICCAI MLMI 2018** (Machine Learning in Medical Imaging) Sept. 2018, **Granada, Spain**.

SIPAIM 2018 (7 papers accepted)

- 369.Emily L. Dennis, Karen Caeyenberghs, Talin Babikian, Alexander Olsen, Gerri Hanten, Christopher C. Giza, Robert F. Asarnow, Harvey Levin, Peter Kochunov, Neda Jahanshad, **Paul M. Thompson**, David Tate, Elisabeth Wilde (2018). **ENIGMA Pediatric mTBI: Preliminary Results from Meta-Analysis of Diffusion MRI**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 370.Artemis Zavaliangos-Petropulu, Talia M. Nir, Sophia I. Thomopoulos, Neda Jahanshad, Robert I. Reid, Matthew A. Bernstein, Bret Borowski, Clifford R. Jack, Jr., Michael W. Weiner, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (ADNI)* (2018). **Ranking Diffusion Tensor Measures of Brain Aging & Alzheimer's Disease**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 371.Alyssa Zhu, Arvin Saremi, Ricardo Pires, Armand Amini, **Paul M. Thompson**, Neda Jahanshad* (2018). **ROBUST AUTOMATIC CORPUS CALLOSUM ANALYSIS TOOLKIT: MAPPING CALLOSAL DEVELOPMENT ACROSS HETEROGENEOUS MULTISITE DATA**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 372.Fabrizio Pizzagalli, Guillaume Auzias, Armand Amini, Joshua Faskowitz, Faisal Rashid, Dan Moyer, Peter Kochunov, Denis Rivière, Jean-François Mangin, **Paul M. Thompson**, Neda Jahanshad (2018). **Sulcal-based morphometry in Parkinson's disease: A study of reliability and disease effects**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 373.Fabian W. Corlier, Daniel Moyer, Meredith N. Braskie, **Paul M. Thompson**, Guillaume Dorothee, Marie Claude Potier, Marie Sarazin, Michel Botlaender, Julien Lagarde (2018). **Automatic classification of cortical thickness patterns in Alzheimer's disease patients, using the Louvain modularity clustering method**, SIPAIM 2018 conference, Mazatlan, Mexico, Oct. 2018.
- 374.Linda Ding, Alyssa Zhu, Arvin Saremi, Joshua Faskowitz, Asta Haberg, **Paul M. Thompson**, Neda Jahanshad* (2018). **VOXELWISE META-ANALYSIS OF BRAIN STRUCTURAL ASSOCIATIONS WITH GENOME-WIDE POLYGENIC RISK FOR ALZHEIMER'S DISEASE**, SIPAIM 2018, Mazatlan, Mexico, Oct. 2018.

ISBI 2019

- 375.Emily L. Dennis^{1,2,3,4}, Ananya Singh³, Conor K. Corbin^{3,5}, Neda Jahanshad³, Tiffany C. Ho², Lucy S. King², Kathryn L. Humphreys^{2,6}, Paul M. Thompson^{3,7}, Ian H. Gotlib (2019). **ASSOCIATIONS BETWEEN MATERNAL DEPRESSION AND INFANT FRONTO-LIMBIC**

CONNECTIVITY: A PRELIMINARY MULTI-SHELL DIFFUSION MRI STUDY, ISBI 2019, accepted, Dec. 18 2018.

376.Santiago Silva, Boris A. Gutman, Eduardo Romero, **Paul M. Thompson**, Andre Altmann, Marco Lorenzi, for ADNI, PPMI, and UK Biobank (2019). FEDERATED LEARNING IN DISTRIBUTED MEDICAL DATABASES: META-ANALYSIS OF LARGE-SCALE BRAIN IMAGING DATA, **ISBI 2019, accepted, Dec. 2018.**

377.Talia M. Nir¹, Sophia I. Thomopoulos¹, Julio E. Villalon-Reina¹, Artemis Zavaliangos-Petropulu¹, Robert I. Reid², Matt A. Bernstein³, Bret Borowski³, Clifford R. Jack, Jr.³, Michael W. Weiner⁴, Neda Jahanshad¹, Paul M. Thompson¹, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2019). **MULTI-SHELL DIFFUSION MRI MEASURES OF BRAIN AGING: A PRELIMINARY COMPARISON FROM ADNI3, ISBI 2019.**

IPMI 2019

378.Li Wang, Paul M. Thompson, Dajiang Zhu (2019). **Analyzing Mild Cognitive Impairment Progression via Multi-View Structural Learning, accepted for IPMI 2019, in press.**

379.Yalin Wang, Paul M. Thompson et al. (2019). Multimodal Brain Image Fusion By Harmonic Maps under a Designed Riemannian Metric, **accepted for IPMI 2019, in press.**

380.Daniel C. Moyer, Greg ver Steeg, Chantal Tax, Paul M. Thompson (2019). Scanner Invariant Representations, **submitted to IPMI 2019, Dec. 13 2019.**

381.Qunxi Dong, Jie Zhang, Qingyang Li, Paul Thompson, Richard Caselli, Jieping Ye and Yalin Wang (2019). Multi-task Dictionary Learning based Convolutional Neural Networks, submitted to **IJCAI-HBAI 2019.**

MICCAI 2019

382.Zhang Y, Zhan L, Cai W, **Thompson PM**, Huang H (2019). Integrating Heterogeneous Brain Networks for Predicting Brain Disease Conditions, Medical Image Computing and Computer Assisted Interventions (**MICCAI**) 2019.

383.Qifan Yang¹, Sophia I. Thomopoulos¹, Linda Ding¹, Wesley Surento¹, Paul M. Thompson¹ and Neda Jahanshad¹, for the Alzheimer's Disease Neuroimaging Initiative (2019). **Support Vector based Autoregressive Mixed Models of Longitudinal Brain Changes and Corresponding Genetics in Alzheimer's Disease, MICCAI PRIME Workshop, Shenzhen, China, Oct. 2019.**

ISBI 2020

384.Lam P, Zhu A, Salminen L, Jahanshad N, **Thompson PM** (2020). Predicting Brain Age from Structural MRI using Deep Learning and Information Theoretic Divergence Measures, submitted to **ISBI 2020, Iowa City, IA, USA, 2020.**

385.Mohammad Farazi, Liang Zhan, Natasha Lepore, **Paul M. Thompson**, Yalin Wang. A Univariate Persistent brain network Feature based on the aggregated cost of cycles from the nested filtration network, **ISBI 2020, Iowa City, IA, USA, 2020, accepted.**

KDD Conference 2020

386. Qi Wang, Liang Zhan, Paul M. Thompson, Jiayu Zhou (2020). Multimodal Learning with Incomplete Modalities by Knowledge Distillation, **KDD 2020**, accepted May 16, 2020.

MICCAI 2020

387. Wang YL, Thompson PM, ..., Zhan L (2020). Deep Representation Learning For Multimodal Brain Networks, **MICCAI 2020**, accepted.
388. Ling-Li Zeng^{a, b}, Christopher R. K. Ching^b, Zvart Abaryan^b, Sophia I. Thomopoulos^b, Kai Gao^a, Alyssa H. Zhu^b, Anjanibhargavi Ragothaman^b, Faisal Rashid^b, Marc Harrison^b, Lauren E. Salminen^b, Brandalyn C. Riedel^b, Neda Jahanshad^b, Dewen Hu^a, **Paul M. Thompson** (2020). A Deep Transfer Learning Framework for 3D Brain Imaging based Optimal Mass Transport, **MICCAI Workshop (peer-reviewed) on Machine Learning in Clinical Neuroimaging (MLCN 2020)**, accepted, August 2020.

SIPAIM 2020 Conference (5 papers)

389. Pradeep K. Lam, Vigneshwaran Santhalingam, Parth Suresh, Rahul Baboota, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, **Paul M. Thompson** (2020). **Accurate Brain Age Prediction Using Recurrent Slice-Based Networks**, **SIPAIM 2020**, Sept. 2020.
390. Katherine E. Lawrence*, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, **Paul M. Thompson** (2020). **Advanced diffusion-weighted MRI metrics detect sex differences in aging among 15,000 adults in the UK Biobank**, **SIPAIM 2020**, Sept. 2020.
391. Leila Nabulsi^{a*}, Katherine E. Lawrence^a, Vigneshwaran Santhalingam^a, Zvart Abaryan^a, Christina P. Boyle^a, Julio E. Villalon-Reina^a, Talia M. Nir^a, Iyad Ba Gari^a, Alyssa H. Zhu^a, Elizabeth Haddad^a, Alexandra M. Muir^a, Neda Jahanshad^a, and **Paul M. Thompson** (2020). **Exogenous Sex Hormone Effects on Brain Microstructure in Women: A Diffusion MRI study in the UK Biobank**, **SIPAIM 2020**, Sept. 2020.
392. Christopher R. K. Ching¹, Zvart Abaryan¹, Vigneshwaran Santhalingam¹, Alyssa H. Zhu¹, Joanna K. Bright¹, Neda Jahanshad¹, **Paul M. Thompson** (2020). **Sex-Dependent Age Trajectories of Subcortical Brain Structures: Analysis of Large-Scale Percentile Models and Shape Morphometry**, **SIPAIM 2020**, Sept. 2020.
393. Ling-Li Zeng^{a, b}, Christopher R. K. Ching^b, Zvart Abaryan^b, Sophia I. Thomopoulos^b, Kai Gao^a, Alyssa H. Zhu^b, Anjanibhargavi Ragothaman^b, Faisal Rashid^b, Marc Harrison^b, Lauren E. Salminen^b, Brandalyn C. Riedel^b, Neda Jahanshad^b, Dewen Hu^a, **Paul M. Thompson**^b. ^{Hata! Yer işareti tanımlanmamış.} (2020). Deep Transfer Learning of Brain Shape Morphometry Predicts Body Mass Index (BMI) in the UK Biobank, **SIPAIM 2020**, Sept. 2020.

ISBI 2021

394. Pradeep Lam, Alyssa H. Zhu, Iyad Ba Gari, Neda Jahanshad, Paul M. Thompson (2021). 3D GRID-ATTENTION NETWORKS FOR INTERPRETABLE AGE AND ALZHEIMER'S DISEASE PREDICTION FROM STRUCTURAL MRI, submitted to **ISBI 2021**, Oct. 2020.
395. Dimitris Stripelis, José Luis Ambite, Pradeep Lam, Paul Thompson (2021). SCALING NEUROSCIENCE RESEARCH USING FEDERATED LEARNING, **ISBI 2021**.
396. Umang Gupta, Pradeep K. Lam, Greg Ver Steeg, Paul M. Thompson (2021). IMPROVED BRAIN AGE ESTIMATION WITH SLICE-BASED SET NETWORKS, **ISBI 2021**.
397. Eleonora Ficiarà, Valentino Crespi, Shruti Prashant Gadewar, Sophia I. Thomopoulos, Joshua Boyd, Paul M. Thompson, Neda Jahanshad, Fabrizio Pizzagalli, and the Alzheimer's Disease Neuroimaging Initiative (2021). Predicting Progression from Mild Cognitive Impairment to Alzheimer's Disease using MRI-based Cortical Features and a Two-State Markov Model, **ISBI 2021**.
398. Elizabeth Haddad, Fabrizio Pizzagalli, Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). SOFTWARE UPGRADES IN NEUROIMAGING: EVALUATING COMPATIBILITY OF BRAIN METRICS ACROSS THREE FREESURFER VERSIONS, submitted to **ISBI 2021**, Oct. 2020.
399. Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). AGE-RELATED HETEROCHRONICITY OF BRAIN MORPHOMETRY MAY BIAS VOXELWISE FINDINGS, **ISBI 2021**.
400. Shruti P. Gadewar*, Alyssa Zhu, Zhuocheng Li, Sophia I Thomopoulos, Iyad Ba Gari, Piyush Maiti, Paul Thompson, Neda Jahanshad (2021). REGION SPECIFIC AUTOMATIC QUALITY ASSURANCE FOR MRI-DERIVED CORTICAL SEGMENTATIONS, submitted to **ISBI 2021**, Oct. 2020.

IPMI 2021

401. Yanfu Zhang, Liang Zhan, Hiroko Dodge, Paul M. Thompson, Heng Huang (2021). Neurodegenerative Disease Prediction via Transferable Deep Networks, submitted to **MICCAI 2021**, March 2021.
402. Yanfu Zhang, Liang Zhan, Paul Thompson, Heng Huang. Learning Representations from Multi-View Brain Connectomes with Disentanglement and Proportionality, submitted to **MICCAI 2021**, March 2021.
403. Yanfu Zhang, Liang Zhan, Paul Thompson, Heng Huang. Brain Image Synthesis Using Incomplete Multimodal Data via Attention-Redistribution Network, submitted to **MICCAI 2021**, March 2021.

MIDL 2021

404. Gupta U, Stripelis D, Lam PK, Thompson PM, Ambite JL, ver Steeg G (2021). Membership Inference Attacks on Deep Regression Models for Neuroimaging, **MIDL 2021**.

EMBC 2021

405. Zhangsihao Yang, Jianfeng Wu, Paul M. Thompson, Yalin Wang (2021). Deep Learning on SDF for Classifying Brain Biomarkers, **EMBC 2021** (3rd Annual International Conference of the IEEE Engineering in Medicine and Biology Society October 31 – November 4, 2021).

SIPAIM21 (5 papers) - November 17-19 2021, Campinas, Brazil / online:

- 406.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Weintraub D, Cook P, McMillan C, Thompson PM (2021). Parkinson's disease classification using 3D convolutional neural networks and random forest methods, Society for Neuroscience (SFN) Annual Meeting, 2021. Proceedings Volume 12088, Proc. SPIE 12088, 17th International Symposium on Medical Information Processing and Analysis, 120880W (10 December 2021) <https://doi.org/10.1117/12.2606297>
- 407.Sinha S, Thomopoulos SI, Lam P, Muir A, Thompson PM (2021). Alzheimer's Disease Classification Accuracy is Improved by MRI Harmonization based on Attention-Guided Generative Adversarial Networks. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 120880L (2021) <https://doi.org/10.1117/12.2606155>
- 408.Stripelis D, Saleem H, Ghai T, Dhinagar N, Gupta U, Anastasiou C, Ver Steeg G, Ravi S, Naveed M, Thompson PM, Ambite JL (2021). Secure Neuroimaging Analysis using Federated Learning with Homomorphic Encryption. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 1208814 (2021) <https://doi.org/10.1117/12.2606256>
- 409.Thomopoulos SI, Nir TM, Villalon-Reina JE, Zavaliangos-Petropulu A, Maiti P, Zheng H, Nourollahimoghdam E, Jahanshad N, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (2021). Diffusion MRI metrics and their relation to dementia severity: Effects of harmonization approaches. Proc. SPIE 12088, 17th International Symposium on Medical Information Processing and Analysis, 120880K (10 December 2021); <https://doi.org/10.1117/12.2606337>.
- 410.Wu J, Zhu W, Su Y, Gui J, Lepore N, Reiman EM, Caselli RJ, Thompson PM, Chen K, Wang Y (2021). Predicting Tau Measurements with Multivariate Morphometry Statistics, Sparse Coding, and Correntropy. Proceedings Volume 12088, 17th International Symposium on Medical Information Processing and Analysis; 120880O (2021) <https://doi.org/10.1117/12.2607169>

PSB 2022 Conference (5 papers)

- 411.Talia M. Nir*, Alyssa H. Zhu*, Iyad Ba Gari, Daniel Dixon, Tasfiya Islam, Julio E. Villalon-Reina, Sarah E. Medland, **Paul M. Thompson**, Neda Jahanshad (2022). Effects of ApoE4 and ApoE2 genotypes on subcortical magnetic susceptibility and microstructure measures in 27,500 participants from the UK Biobank, **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 412.Jingxuan Bao^{1*}, Zixuan Wen^{1*}, Mansu Kim¹, Xiwen Zhao², Brian N. Lee¹, Sang-Hyuk Jung¹, Christos Davatzikos³, Andrew J. Saykin, **Paul M. Thompson**, Dokyoon Kim¹, Yize Zhao², Li Shen^{1,†}, and for the Alzheimer's Disease Neuroimaging Initiative (2022). Identifying highly heritable brain amyloid phenotypes through mining Alzheimer's imaging and sequencing biobank data, submitted to **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 413.Jingxuan Bao^{1*}, Zixuan Wen^{1*}, Mansu Kim¹, Andrew J. Saykin², **Paul M. Thompson**³, Yize Zhao⁴, Li Shen^{1†}, and for the Alzheimer's Disease Neuroimaging Initiative (2022). Identifying imaging genetic associations via regional morphometricity estimation, submitted to **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.
- 414.Peter Kochunov PhD^{*1}, Yizhou Ma PhD^{*1}, Mark D. Kvarata MD, PhD¹, Kathryn S. Hatch BS¹, Lianne Schmaal^{2,3}, Neda Jahanshad PhD⁴, **Paul M. Thompson PhD**⁴, Bhim M. Adhikari PhD¹, Heather Bruce MD¹, Joshua Chiappelli MD¹, Andrew Van der vaart MD, PhD¹, Eric L. Goldwaser DO, PhD¹, Aris Sotiras PhD³, Tianzhou Ma⁵, Shuo Chen, PhD¹, Thomas E. Nichols PhD⁶, L. Elliot Hong MD (2022). Separating Clinical and Subclinical Depression by Big Data Informed Structural Vulnerability Index

and Its impact on Cognition: ENIGMA Dot Product, **PSB 2022**, Pacific Symposium on Biocomputing, Hawaii, USA, Jan. 2022.

415. Peter Kochunov, Li Shen, John Darrell van Horn, **Paul M. Thompson** (2022). Big Data Imaging Genomics, Pacific Symposium on Biocomputing 27:68-72(2022), http://psb.stanford.edu/psb-online/proceedings/psb22/intro_bigdata.pdf

ISBI 2022 (2 papers accepted)

416. Haoteng Tang, Lei Guo, Xiyao Fu, Benjamin Qu, Paul M. Thompson, Heng Huang, Liang Zhan (2022). HIERARCHICAL BRAIN EMBEDDING USING EXPLAINABLE GRAPH LEARNING, **ISBI 2022, Kolkata, India, accepted.**
417. Wu J, Su Y, Thompson PM, Reiman EM, Caselli RJ, Chen K, Wang Y, for the Alzheimer's Disease Neuroimaging Initiative (2022). Predicting brain amyloidosis with plasma β -amyloid_{42/40} and MRI-based morphometry features, **ISBI 2022**, ITC Royal Bengal, Kolkata, India.
418. Jianfeng Wu BS1, Yanxi Chen MS1, Panwen Wang PhD2, Richard J Caselli MD3, Paul M Thompson PhD4, Junwen Wang PhD2#, Yalin Wang PhD1#, for the Alzheimer's Disease Neuroimaging Initiative* (2022). *Investigating the effect of tau deposition and APOE on hippocampal morphometry in Alzheimer's disease: A federated Chow test model*, submitted to **ISBI 2022, Kolkata, India, accepted.**
419. Surabhi Sinha, Sophia I. Thomopoulos, Alexandra Muir, Pradeep Lam, Paul Thompson (2022). IMPROVING ALZHEIMER'S DISEASE CLASSIFICATION USING ATTENTION-GUIDED NEURAL NETWORKS AND MRI DOMAIN ADAPTATION, submitted to **ISBI 2022, Kolkata, India.**

EMBC 2022 (1 paper) - July 11-15 2022, Glasgow, Scotland, UK:

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422. Chongyue Zhao, Liang Zhan, **Paul M. Thompson**, and Heng Huang (2022). Explainable Contrastive Multiview Graph Representation of Brain, Mind, and Behavior, **MICCAI 2022, Sept 18-22, 2022, Singapore.**
423. Chongyue Zhao, Liang Zhan, **Paul M. Thompson**, and Heng Huang (2022). Explainable Predicting Spatio-Temporal Human Brain Response Using fMRI, **MICCAI 2022, Sept 18-22, 2022, Singapore.**

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Society for Neuro-Oncology 2000

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Brain Mapping Course 2000

1166. **Thompson PM**, Mega MS, Woods RP, MacDonald D, Narr KL, Zeineh MM, Rex D, Holmes CJ, Evans AC, Mazziotta JC, Toga AW (2000). *Surface-Based Analysis of the Structure and Function of the Human Cerebral Cortex*, Breakfast Symposium (with Dr. Bruce Fischl and Dr. David Van Essen): Brain Imaging Methods and Analysis Techniques, 6th Annual Meeting of the Organization for Human Brain Mapping, San Antonio, Texas, June 15, 2000.

1167. **Thompson PM**, Toga AW (2000). *Mathematical/Computational Challenges in Population-Based Brain Mapping*, Invited Conference Paper, International Workshop on Statistics in Brain Mapping, and Joint Statistical Meetings (JSM), Indianapolis, IN, August 2000.

American Academy of Neurology 2001

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Human Brain Mapping 2001

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1173. Vidal C, Rapoport JL, Giedd JN, Blumenthal J, Gochman P, Nicolson R, Toga AW, **Thompson PM** (2001). *Dynamic Patterns of Accelerated Gray Matter Loss are Linked with Clinical and Cognitive Change in Childhood-Onset Schizophrenia*, 7th Annual Meeting of the Organization for Human Brain Mapping, Brighton, England, June 2001.
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International Schizophrenia Congress 2001:

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Society for Industrial and Applied Mathematics (SIAM) 2001:

1178. **Thompson PM** (2001). *Mathematical/Computational Challenges in Population-Based Brain Mapping*, Annual Conference of the Society for Industrial and Applied Mathematics (SIAM): 1st SIAM Conference on Life Sciences, Minisymposium: Mapping the Human Brain, Boston, MA, Sept. 22-26, 2001.
1179. **Thompson PM** (2001). *Tensor Calculus for Surface Comparisons*, Annual Conference of the Society for Industrial and Applied Mathematics (SIAM): 1st SIAM Conference on Imaging Science, Minisymposium MS20: Comparative Mathematical Structures in 3D Medical Image Analysis; Chair: Fred L. Bookstein, Boston, MA, Sept. 22-26, 2001.

SIGGRAPH 2001:

1180. Bacheller J, **Thompson PM**, Holmes CJ, Toga AW (2001). *Tensor Visualization of Brain Variability*, SIGGRAPH 2001 Computer Graphics Conference, Los Angeles, CA, 2001.

1181. Bacheller J, **Thompson PM**, Holmes CJ, Toga AW (2001). *Animating High-Dimensional Tensor Datasets to Visualize Brain Variability*, Video with Abstract, SIGGRAPH 2001 Computer Graphics Conference, Los Angeles, CA, 2001.

Institute for Pure and Applied Mathematics 2001:

1182. **Thompson PM** (2001). *Mathematical Challenges in Population-Based Brain Mapping*, Workshop on Mathematics and Modeling in Brain Mapping, Proceedings of the 1st IPAM Conference on Imaging in Medicine and Neurosciences, UCLA Institute for Pure and Applied Mathematics, May 21-25, 2001.

Society for Neuroscience 2001:

1183. **Thompson PM**, Cannon TD, Narr KL, van Erp T, Khaledy M, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Kaprio J, Dail R, Zoumalan CI, Toga AW (2001). *Genetic Influences on Human Brain Structure Detected and Mapped with a Population-Based Brain Atlas Encoding Patterns of Heritability*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1184. Cannon TD, **Thompson PM**, van Erp T, Toga AW, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Narr KL, Beatty J, Khaledy M, Zoumalan CI, Dail R, Kaprio J (2001). *Heteromodal Gray Matter Deficits in Twins Discordant for Schizophrenia Isolated Using Cortical Pattern Matching*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1185. Narr KL, van Erp T, Cannon TD, Woods RP, **Thompson PM**, Jang S, Poutanen V-P, Huttunen M, Lönngqvist J, Standertskjöld-Nordenstam C-G, Mazziotta JC, Toga AW (2001). *A Twin Study of Genetic Contributions to Hippocampal Morphology in Schizophrenia*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1186. Vidal CN, Rapoport JL, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW, **Thompson PM** (2001). *Dynamic Wave of Abnormal Adolescent Gray Matter Loss is Linked with Clinical and Cognitive Deficits in Childhood-Onset Schizophrenia*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1187. Frew AJ, Alger JR, Cloughesy TF, Rubino G, Liau L, Jouben-Steele LM, Toga AW, **Thompson PM** (2001). *3D Mapping and Correlation of Growth Rates, MR Spectroscopy, and Pathology in Glioma Patients using Intraoperative MRI*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1188. Sowell ER, **Thompson PM**, Mattson SN, Tessner KD, Jernigan TL, Riley EP, Toga AW (2001). *Regional Brain Shape Abnormalities Persist into Adolescence After Heavy Prenatal Alcohol Exposure*, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

1189. Blanton RE, Levitt JG, McCracken JT, Fadale D, Sporty M, Lee M, Nobel D, Sadoun T, Lo C, Vahabnezhad E, Cook P, **Thompson PM**, Toga AW (2001). *The Measurement of Orbito-frontal Volumes During Normal Childhood and Adolescence*, Presentation 696.13, 31st International Meeting of the Society for Neuroscience, San Diego, CA, November 10-15, 2001.

American College of Neuropsychopharmacology (ACNP) 2001:

1190. Rapoport JL, **Thompson PM**, Vidal CN, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW (2001). *Mapping Adolescent Brain Change Reveals Dynamic Wave of Accelerated Gray Matter Loss in Childhood-Onset Schizophrenia*, Proc. Amer. Coll. Neuropsychopharmacology (ACNP), Waikoloa Village, HI, December 9, 2001.

1191. Giedd JN, Molloy E, Vaituzis AC, Blumenthal J, Clasen L, Liu H, Castellanos FX, **Thompson PM** (2001). *Heritability of Cerebral Cortex Morphometry during Childhood and Adolescence*, Proc. Amer. Coll. Neuropsychopharmacology (ACNP), Waikoloa Village, HI, December 12, 2001.

American Academy of Child and Adolescent Psychiatry (AACAP) 2001:

1192. Blanton RE, Levitt J, **Thompson PM**, Sadoun T, McCracken J, Toga AW (2001). *Significant Differences in Language-Related Regions in Autism*, American Academy of Child and Adolescent Psychiatry (AACAP), 2001.

Institute for Pure and Applied Mathematics 2002:

1193. **Thompson PM** (2002). *Analysis of Brain Images*, Proceedings of the 1st IPAM Conference on Scientific Data Mining, Chandrika Kamath (ed.), UCLA Institute for Pure and Applied Mathematics, January 14-18, 2002.

1194. Zeineh MM, Engel S, **Thompson PM**, Wilson C, Fried I, Bookheimer SY (2002). *Cortical Unfolding of the Medial Temporal Lobe in Normals and Epileptics*, Invited Presentation, Memory Symposium, Proceedings of the 2002 Cognitive Neuroscience Meeting, April 2002.

International Society for Magnetic Resonance in Medicine (ISMRM) 2002:

1195. Frew AJ, **Thompson PM**, Cloughesy TF, Toga AW, Alger JR (2002). *Assessment of 3-Tesla Parametric T2 Reproducibility After Automated Image Registration in Longitudinal Studies of Brain Tumors*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2002, Honolulu, HI, May 2002.

Human Brain Mapping 2002:

1196. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Dittmer S, Mega MS, Semple J, Herman D, Hong MS, Doddrell DM, Toga AW (2002). *Dynamically Spreading Wave of Gray Matter Loss Visualized in Alzheimer's Disease using Cortical Pattern Matching and a Brain Atlas Encoding Atrophic Rates*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1197. Vidal CN, Rapoport JL, Gochman P, Giedd JN, Blumenthal J, Nicolson R, Toga AW, **Thompson PM** (2002). *A New Method for Mapping the Linkage Between Abnormal Gray Matter Loss and the Clinical and Cognitive Deficits in Childhood-Onset Schizophrenia*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1198. Frew AJ, **Thompson PM**, Cloughesy TF, Toga AW, Alger JR (2002). *Automated Detection of Subtle Between-Study Alterations in Parametric Transverse Relaxation Time in Brain Tumor and Normal Brain Tissue*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

1199. Zeineh MM, Engel SA, **Thompson PM**, Bookheimer SY (2002). *Dynamic Changes in the Human Hippocampus During Memory Consolidation of Face-Name Pairs*, 8th Annual Meeting of the Organization for Human Brain Mapping, Sendai, Japan, June 2002.

State of Missouri Education Summit 2002:

1200. **Thompson PM** (2002). *Imaging the Developing Brain in Children and Teenagers: What Are We Learning?*, State of Missouri Education Summit 2002, Lake of the Ozarks, Osage Beach, MO, April 26, 2002.

American Academy of Child and Adolescent Psychiatry (AACAP) 2002:

1201. **Thompson PM**, Vidal CN, Giedd JN, Cannon TD, Gogate N, Gochman P, Blumenthal J, Nicolson R, Toga AW, Rapoport JL (2002). *Brain Imaging in Normal and Abnormal Development: New Approaches*, Proc. American Academy of Child and Adolescent Psychiatry (AACAP), San Francisco, CA, October 2002.

1202. Hamilton JD, Asarnow R, Gogate N, Rapoport JL, **Thompson PM** (2002). *The Neurobiology of Early-Onset Schizophrenia: An Update*, Proc. American Academy of Child and Adolescent Psychiatry (AACAP), San Francisco, CA, October 2002.

Australasian Society for Psychiatric Research (ASPR) 2002:

1203. Johnston P, Schall U, Ward P, Lagopoulos J, Rasser P, Thienel R, **Thompson PM** (2002). *An fMRI Investigation of Executive Function in Early Psychosis*, Proc. Australasian Society for Psychiatric Research (ASPR), Australia National University, Canberra, Australia, December 4-6 2002.

American Neuropsychiatric Association (ANPA) 2003:

1204. **Thompson PM** (2003). *Imaging of Brain Development and Schizophrenia: Recent Advances and Challenges*, Invited Symposium on Neuropsychiatry of Neurodevelopment, Organizer: Allan Reiss, M.D., Proc. 14th Ann. Conference of the American Neuropsychiatric Association (ANPA), Honolulu, HI, February 2-4, 2003.

International Schizophrenia Congress 2003:

1205. Rasser PE, Johnston P, Lagopoulos J, Ward PB, Schall U, Thienel R, Bender S, **Thompson PM** (2003). *Analysis of fMRI BOLD activation during the Tower of London Task using Cortical Pattern Matching*, International Congress for Schizophrenia Research (ICSR), Colorado Springs, Colorado, March 29-April 2, 2003.

International Society for Magnetic Resonance in Medicine (ISMRM) 2003:

1206. Frew AJ, **Thompson PM**, Tseng PB, Cloughesy TF, Toga AW, Alger JR (2003). *T1, Proton Density T2 and Parametric T2 Reproducibility After Automated Image Registration in Longitudinal Studies of Brain Tumors*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2003, Toronto, Canada, May 10-16, 2003.

1207. Vidal CN, DeVito TJ, Hayashi KM, Drost DJ, Williamson PC, Craven-Thuss B, Herman D, Sui Y, Toga AW, Nicolson R, **Thompson PM** (2003). *Detection and Visualization of Corpus Callosum Deficits in Autistic Children using Novel Anatomical Mapping Algorithms*, Proc. International Society for Magnetic Resonance in Medicine (ISMRM) 2003, Toronto, Canada, May 10-16, 2003.

Dartmouth College fMRI Workshop 2003:

1208. **Thompson PM** (2003). *Mathematical Challenges and New Directions in Computational Neuroanatomy*, Tutorial Presentation, 3rd Annual fMRI Data Center (fMRIDC) Summer Workshop, Dartmouth College, Hanover, New Hampshire, July 7-9, 2003.

Human Brain Mapping 2003:

1209. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Gravano D, Dittmer S, Doddrell DM, Toga AW (2003). *Improved Detection and Mapping of Dynamic Hippocampal and Ventricular Change in Alzheimer's Disease Using 4D Parametric Mesh Skeletonization*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.

1210. Vidal, C.N., Rapoport, J.L., Gochman, P., Giedd, J.N., Blumenthal, J., Gogtay, N., Nicolson, R., Toga, A.W., **Thompson, P.M.** (2003). *Mapping Limbic System Deficits in Adolescents with Schizophrenia Using Novel Computational Anatomy Techniques*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1211. Vidal, C.N., DeVito, T.J., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Herman, D., Sui, Y., Toga, A.W., Nicolson, R., **Thompson, P.M.** (2003). *Mapping Corpus Callosum Deficits in Autistic Children using Novel Computational Anatomy Algorithms*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1212. Nicolson, R., DeVito, T.J., Vidal, C.N., Sui, Y., Hayashi, K.M., Drost, D.J., Williamson, P.C., Craven-Thuss, B., Pavlosky, W., Toga, A.W., **Thompson, P.M.** (2003). *Magnetic Resonance Imaging of the Hippocampus in Males with Autism*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1213. Rasser, P., Ward, P., Johnston, P., Lagopoulos, J., Schall, U., Thienel, R., Bender, S., **Thompson, P.M.** (2003). *fMRI BOLD activation during the Tower of London task using Cortical Pattern Matching*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1214. Sowell, E.R., **Thompson, P.M.**, Welcome, S.E., Henkenius, A.L., Toga, A.W., Peterson, B.S. (2003). *Cortical Abnormalities in Children and Adolescents with Attention Deficit Hyperactivity Disorder*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1215. Zeineh, M.M., Mazziotta, J.C., **Thompson, P.M.**, Engel, S.A., Bookheimer, S.Y. (2003). *Hippocampal Flat Maps of Cortical Thickness and Power*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1216. Narr, K.L., Bilder, R.M., Szeszko, P., **Thompson, P.M.**, Jang, S., Kim, S., Hayashi, K.M., Woods, R.P., Toga, A.W. (2003). *Mapping Regional Hippocampal Abnormalities in First Episode Schizophrenia*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1217. Gu, X., Wang, Y.L., Chan, T.F., **Thompson, P.M.**, Yau, S.T. (2003). *Brain Surface Conformal Mapping*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1218. Ballmaier, M., Kumar, A., Sowell, E.R., **Thompson, P.M.**, Blanton, R.E., Lavretsky, H., Welcome, S.E., Peterson, J., Pham, D., DeLuca, H., Toga, A.W. (2003). *Cortical Abnormalities in Elderly Depressed Patients*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1219. Luders, E., Rex, D.E., Narr, K.L., Woods, R.P., Jancke, L., **Thompson, P.M.**, Mazziotta, J.C., Toga, A.W. (2003). *Relationships between Sulcal Asymmetries and Corpus Callosum Morphometry: Gender and Handedness Effects*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.
1220. Blanton, R.E., Levitt, J., Peterson, J., Sadoun, T., To, D., Lee, M., **Thompson, P.M.**, McCracken, J., Toga, A.W. (2003). *IQ Correlations with Regional Gray Matter Decreases in Normal Children*, 9th Annual Meeting of the Organization for Human Brain Mapping, New York City, NY, USA, June 2003.

Spring Brain Conference 2003:

1221. Woolsey, T., Mintun, M., Gollub, R., **Thompson, P.M.** (2003). *Brain Images of Mental Illness*, Invited Workshop, Proc. 14th Annual Spring Brain Conference, Sedona, Arizona, March 12-15, 2003.
1222. **Thompson, P.M.** (2003). *Brain Structure Changes in Populations, Families, and Individuals with Schizophrenia*, Proc. 14th Annual Spring Brain Conference, Sedona, Arizona, March 12-15, 2003.

IPSEN Foundation Conference 2003:

1223. **Thompson PM**, Hayashi KM, de Zubicaray G, Janke AL, Rose SE, Semple J, Hong MS, Herman D, Dittmer S, Doddrell DM, Toga AW (2003). *Dynamics of Gray Matter Loss in Alzheimer's Disease, Mapped with a Population Based Brain Atlas*, Proc. 2003 IPSEN Foundation Conference, "The Living Brain and Alzheimer's Disease," [Hyman, B., Demonet, J.F., Christen, Y., eds.], Paris, France, March 17, 2003.

Society for Neuroscience 2003:

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International Society for Intelligence Research (ISIR) 2003:

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American Mathematical Society 2004:

1237.**Thompson PM** (2004). *Mathematical/Computational Challenges in Brain Mapping*, Proc. American Mathematical Society, Phoenix, AZ, January 2004.

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1238.Wang, Y.L., Gu, X., Chan, T., **Thompson, P.M.**, Yau, S.T. (2004). *Intrinsic Brain Surface Conformal Mapping using a Variational Method*, Proc. SPIE International Symposium on Medical Imaging, Conference on Image Processing, San Diego, CA, Feb. 14-19, 2004, JM Fitzpatrick and M Sonka, eds., Proc. SPIE 5370:241-252.

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1239.Narr KL, **Thompson PM**, Bilder RM, Woods RP, Rex DE, Szeszko P, Robinson D, Wang YP, DeLuca H, Toga AW (2004). *Regional Cortical Gray Matter Reductions in First Episode Schizophrenia*, International Conference of the Society of Biological Psychiatry, New York, NY, 2004.

Human Brain Mapping 2004:

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1248. Sowell ER, Peterson BS, **Thompson PM**, Yoshii J, Kan E, Toga AW (2004). *Gender Differences in Cortical Thickness Mapped in 176 Healthy Individuals Between 7 and 87 Years*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
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1250. Wang YL, Gu X, Chan TF, **Thompson PM**, Yau ST (2004). *Volumetric Harmonic Brain Mapping using a Variational Method*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1251. Blanton RE, Levitt JG, Peterson JR, Singerman J, Lee M, Fadale D, **Thompson PM**, McCracken JT, Toga AW (2004). *Localization of Developmental and Cognitive Effects in the Prefrontal Cortex*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
1252. Gogtay N, Ordonez A, Herman D, Hayashi KM, Vaituzis C, Sporn A, Giedd JN, Greenstein D, **Thompson PM**, Rapoport JL (2004). *Dynamic Mapping of Cortical Brain Development in Pediatric Bipolar Illness*, International Conference of the Organization for Human Brain Mapping, Budapest, Hungary, June 13-17 2004.
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CCCT Conference 2004:

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Notre Dame Conference 2004:

1257. **Thompson PM** (2004). *Mapping the Brain in Large Human Populations*, Proc. Notre Dame Conference on Quantitative Methodologies, Univ. of Notre Dame, Indiana, May 27-29, 2004.

Human Brain II 2004:

1258. **Thompson PM** (2004). *Mapping Human Brain Development: Longitudinal Neuroimaging and Genetic Studies*, Human Brain II - Modelling and Remodelling, St. Lucia, Rome, Italy, October 6-9, 2004.

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1266. Davis SW, Hayashi KM, Meltzer CC, **Thompson PM**, Toga AW, Lopez OL, Becker JT (2004). *Mapping Hippocampal Volume Changes in Alzheimer's Disease and Mild Cognitive Impairment*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.
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1268. Luders E, Narr KL, Zaidel E, **Thompson PM**, Jancke L, Gaser C, Toga AW (2004). *Asymmetries in the Corpus Callosum and the Influence of Gender*, Proc. 34th Annual Conference of the Society for Neuroscience, San Diego, CA, Oct. 23-27 2004.

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American Association for Geriatric Psychiatry (AAGP) 2004:

1270. Butters MA, Hayashi KM, Aizenstein HJ, Seaman J, Figurski J, Zmuda MD, Meltzer CC, Reynolds CF, **Thompson PM**, Becker JT (2004). *Three dimensional volume measurement reveals decreased volume of the caudate nucleus in late-life depression*, **American Association for Geriatric Psychiatry**, 2004.

8th Biennial Australasian Schizophrenia Conference 2004:

1271. Rasser PE, Peck G, Johnston PJ, **Thompson PM**, Ward PB, Schall U (2004). *fMRI BOLD Cerebellar Activation of First-Episode Schizophrenia Patients during the Tower of London Task*, **8th Biennial Australasian Schizophrenia Conference**, Sept. 22-24 2004.

Human Brain Mapping Conference 2005:

1272. **Thompson PM** (2005). *Mapping Genetic Influences on Brain Structure and Intelligence*, Breakfast Symposium, Toronto, Canada, 2005.

International Congress on Schizophrenia Research 2005:

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1277. Becker JT, Hayashi KM, Seaman JL, Lopez OL, Aizenstein HJ, **Thompson PM** (2005). *Alteration in Hippocampal and Caudate Nucleus Structure in HIV/AIDS Revealed by 3-Dimensional Surface Mesh Analysis*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.
1278. Apostolova L, **Thompson PM**, Hayashi KM, Dinov ID, Toga AW, Cummings JL (2005). *Cortical Atrophy Pattern Predicts Conversion from Mild Cognitive Impairment to Alzheimer Dementia*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.
1279. Apostolova L, **Thompson PM**, Dutton RA, Dinov ID, Toga AW, Cummings JL (2005). *Hippocampal Size Can Predict the Outcome of Mild Cognitive Impairment*, 57th Annual Meeting of the American Academy of Neurology (AAN), Miami Beach, FL, April 9-16, 2005.

American Geriatric Society 2005:

1280. Roybal DJ, Dutton RA, Hayashi, KM, de Zubicaray GI, O'Dowd BS, Chalk JB, Janke AL, McMahon KL, Cowin GJ, Strudwick M, Bryant MK, Doddrell DM, **Thompson PM** (2005). *Mapping ApoE4 and Gender Effects on Hippocampal Atrophic Rates: A Longitudinal MRI Study of Normal Aging*, 2005 Annual Scientific Meeting of the American Geriatric Society (AGS), Orlando, FL, May 11-15, 2005.

Human Brain Mapping Conference 2005:

1281. **Thompson PM**, Dutton RA, Hayashi KM, Lu A, Lee SE, Lee JY, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *3D Cortical Thickness Reductions Mapped in HIV/AIDS Correlate with Cognitive Impairment and Immune System Deterioration*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1282. Leow AD, Lee AD, Chiang MC, Dutton RA, Hayashi KM, Huang SC, Becker JT, Davis SW, Toga AW, **Thompson PM** (2005). *Analysis of Regional Brain Atrophy in a Single Case of Semantic Dementia Using Serial MRI with Inverse-Consistent Non-Rigid Registration*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1283. Chiang MC, Reiss AL, Eckert MA, Dutton RA, Lee AD, Alagband Y, Bellugi U, Galaburda A, Korenberg J, Mills DL, Toga AW, **Thompson PM** (2005). *Tensor-Based Morphometry of the Corpus Callosum in Williams Syndrome*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1284. Lin JJ, Salamon N, Lee AD, Dutton RA, Geaga JA, Hayashi KM, Luders E, Toga AW, Engel J, **Thompson PM** (2005). *Mapping Reduced Cortical Thickness and Complexity in Mesial Temporal Lobe Epilepsy with Hippocampal Sclerosis*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1285. Vidal CN, Frenoux E, Nicolson R, Boire JY, DeVito TJ, Geaga JA, Hayashi KM, Drost DJ, Williamson PC, Henry JD, Toga AW, **Thompson PM** (2005). *3D Mapping of the Lateral Ventricles in Autism*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1286. Soares JC, Bearden CE, Dalwani M, Hayashi KM, Lee AD, Glahn DC, Nicoletti M, Trakhenbroit M, Brambilla P, Sassi RB, Mallinger AG, Frank E, Kupfer D, **Thompson PM** (2005). *Cortical Gray Matter Density Increases in Patients with Bipolar Disorder*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.

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1288. Carmichael OT, **Thompson PM**, Dutton RA, Lu A, Lee SE, Lee JY, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Dementia-Associated Ventricular Volume Changes in a Community Cohort*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1289. Nugent TF, **Thompson PM**, Herman DH, Giedd JN, Greenstein D, Classen L, Rapoport JL, Gogtay N (2005). *Dynamic Mapping of Hippocampal Development in Childhood Onset Schizophrenia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1290. Sabattoli F, Boccardi M, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2005). *Hippocampal Changes in Alzheimer, Fronto-Temporal and Lewy Body Dementia Patients: A Radial Atrophy Mapping Study*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1291. Narr KL, Bilder RM, Woods RP, **Thompson PM**, Szeszko P, Robinson D, Ballmeier M, Slater M, Messenger B, Wang YP, Toga AW (2005). *Mapping CSF Changes in First Episode Schizophrenia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1292. Wang Y, Lui LM, Chan TF, **Thompson PM** (2005). *Optimization of Conformal Parametrization using Landmarks*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1293. Wang Y, Gu X, Hayashi KM, Chan TF, **Thompson PM**, Yau ST (2005). *Brain Surface Parametrization with Holomorphic Differential Forms*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1294. Wang Y, Gu X, Chan TF, **Thompson PM**, Yau ST (2005). *Direct Painting Software for Tracing on 3D Brain Surfaces with Global Conformal Parametrization*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1295. Apostolova LG, **Thompson PM**, Hayashi KM, Dinov ID, Toga AW, Cummings JL (2005). *3D Surface-Based Gray Matter Density Analysis Can Predict Conversion from Mild Cognitive Impairment to Alzheimer's Dementia*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1296. Apostolova LG, **Thompson PM**, Dutton RA, Dinov ID, Toga AW, Cummings JL (2005). *Hippocampal Radial Atrophy Mapping Can Predict the Outcome of Mild Cognitive Impairment*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1297. Lu LH, Leonard CM, **Thompson PM**, Kan E, Toga AW, Sowell ER (2005). *Mapping Structural Brain Changes Related to Improving Phonological Awareness in Normal Children*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1298. Luders E, Narr KL, **Thompson PM**, Rex DE, Woods RP, DeLuca H, Jancke L, Toga AW (2005). *Gender Effects on Cortical Thickness*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.
1299. Joshi A, Shattuck DW, **Thompson PM**, Leahy RM (2005). *Thin-Plate Spline Registration in the Intrinsic Geometry of the Cortical Surface*, 11th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Toronto, Canada, June 12-16, 2005.

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1301. Protas H, **Thompson PM**, Hayashi KM, Huang SC (2005). Cortical Brain Surface Mapping for Studying Partial Volume Effects in Brain FDG-PET Images, 52nd Annual Meeting of the Society for Nuclear Medicine (SNM), Toronto, Canada, June 18-22, 2005.
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1303. Carmichael O, Aizenstein HJ, Davis SW, Becker JT, **Thompson PM**, Meltzer CC, Liu Y (2005). *Atlas-Based Hippocampus Segmentation In Alzheimer's Disease and Mild Cognitive Impairment*. 13th Annual Meeting of the International Society for Magnetic Resonance in Medicine (ISMRM), South Beach, Miami, FL, May 7-13, 2005.

Society for Neuroscience (SFN) 2005

1304. **Thompson PM**, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT (2005). *Thinning of the Cerebral Cortex Visualized in HIV/AIDS Reflects CD4+ T-Lymphocyte Decline*, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1305. Bearden CE, Dutton RA, van Erp TGM, Tran H, Zimmermann L, Geaga JA, Simon TJ, Ding L, Emanuel BS, **Thompson PM** (2005). *Cortical Thickness Maps in Children with 22q11.2 Deletion Syndrome*, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1306. Soares JC, Bearden CE, Dalwani M, Hayashi KM, Lee AD, Nicoletti M, Trakhenbroit M, Glahn DC, Brambilla P, Sassi RB, Mallinger AG, Frank E, Kupfer D, **Thompson PM** (2005). Cortical Mapping of Gray Matter Density Bipolar Disorder Patients, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1307. Leow AD, **Thompson PM**, Hayashi KM, Bearden C, Nicoletti MA, Monkul SE, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2005). *Lithium Effects on Human Brain Structure Mapped Using Longitudinal MRI*, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1308. Sowell ER, **Thompson PM**, Kan E, Toga AW, Luna B (2005). Mapping Relationships Between Frontal Cortical Activation and Cortical Thickness in Normal Adolescents, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
1309. van Erp TGM, **Thompson PM**, Kiesepää TT, Zimmermann LL, Tran HL, Correll C, Wobbekind A, Haukka J, Partonen T, Kaprio J, Lönngqvist J, Poutanen VP, Toga AW, Cannon TD (2005). *Cortical Gray Matter Density in Twins Discordant for Bipolar I Disorder*, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.
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1311. Hua X, Leow AD, Levitt JG, **Thompson PM**, Toga AW (2005). *Detecting Brain Growth Patterns in Normal Children using Tensor-Based Morphometry*, 35th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 12-16, 2005.

- 1312.Lu LH, Leonard CM, Dinov ID, **Thompson PM**, Kan E, Jolley J, Toga AW, Sowell ER (2005). *Differentiating Between Phonological Processing and Rapid Naming Using Structural MRI*, 34th Annual International Neuropsychological Society (INS) Meeting, Boston, MA, February 1-4, 2006.
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American Academy of Neurology (AAN) 2006

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- 1315.Cummings JL, Apostolova LG, Akopyan GG, Steiner CA, Partiali N, Toga AW, **Thompson PM** (2006). Structural Correlates of Apathy in Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1316.Apostolova LG, Dinov ID, Toga AW, Cummings JL, **Thompson PM** (2006). 3D Comparison of Hippocampal Atrophy in Mild Cognitive Impairment and Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1317.Apostolova LG, Steiner CA, Akopyan GG, Toga AW, Cummings JL, **Thompson PM** (2006). Structural Correlates of Apathy in Alzheimer's Disease, Annual Meeting of the American Academy of Neurology, 2006.
- 1318.Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Longitudinal study of ventricular atrophy rates in the Cardiovascular Health Study*, Annual Meeting of the American Academy of Neurology, 2006.
- 1319.Carmichael OT, Kuller LH, Lopez OL, **Thompson PM**, Dutton RA, Lu A, Lee SH, Lee JY, Aizenstein HA, Meltzer CC, Liu Y, Toga AW, Becker JT (2006). *Cardiovascular Risk Factors Accelerate Ventricular Expansion in the Cardiovascular Health Study*, Annual Meeting of the American Academy of Neurology, 2006.
- 1320.Small GW, Kepe V, Ercoli L, Siddarth P, Miller K, Bookheimer SY, Lavretsky H, Cole G, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy NE, Phelps ME, Barrio JR (2006). *FDDNP-PET Scanning of Cerebral Amyloid and Tau Deposits in Mild Cognitive Impairment*, Annual Meeting of the American Academy of Neurology, 2006 [Late Breaking Science Abstract]; *Neurology*. 2006 Jul 11;67(1):186.
- 1321.Small GW, Kepe V, Ercoli L, Siddarth P, Vinters HV, Bookheimer SY, Cole GM, **Thompson PM**, Huang SC, Barrio JR (2006). *Cerebral FDDNP-PET Binding Increases in MCI and Aging as Neurodegeneration Progresses*, Annual Meeting of the Alzheimer's Imaging Consortium (AIC), 2006.

Society of Biological Psychiatry (SOBP) 2006

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Human Brain Mapping Conference 2006

1323. Chiang MC, Dutton RA, Hayashi KM, Toga AW, Lopez OL, Aizenstein HJ, Becker JT, **Thompson PM** (2006). 3D Pattern of Brain Atrophy in HIV/AIDS Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1324. Chiang MC, Reiss AL, Dutton RA, Lee AD, Hayashi KM, Eckert MA, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). 3D Pattern of Brain Volume Reduction in Williams Syndrome Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1325. Apostolova LG, Lu P, Rogers S, Dutton RA, Toga AW, Cummings JL, **Thompson PM** (2006). 3D mapping of language impairments in clinical and pre-clinical Alzheimer's disease, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1326. Apostolova LG, Lu P, Rogers S, Dutton RA, Toga AW, Cummings JL, **Thompson PM** (2006). 3D mapping of Mini-Mental State Examination performance in clinical and pre-clinical Alzheimer's disease, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
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1328. Lu A, Leow AD, Lee AD, Gogtay N, Rapoport JL, Toga AW, **Thompson PM** (2006). Growth Pattern Abnormalities in Childhood-onset Schizophrenia Visualized using Tensor-Based Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1329. Foland LC, Altshuler LL, Leow AD, Lee AD, Lu A, Asuncion D, Toga AW, **Thompson PM** (2006). A Tensor-Based Morphometric Study of Bipolar Disorder, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
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1331. Bearden CE, Dutton RA, van Erp TGM, Zimmermann L, Tran H, Geaga JA, Simon TJ, Cannon TD, Emanuel BS, **Thompson PM** (2006). Abnormal Cortical Thickness and Cortical Asymmetry Mapped in Children with 22q11.2 Microdeletions, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1332. Pievani M, Testa C, Sabattoli F, Galluzzi S, Ettori M, Hayashi KM, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2006). Structural correlates of age at onset in Alzheimer's disease: a cortical pattern matching study, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1333. Rasser PR, Peck G, Johnston P, Schall U, **Thompson PM** (2006). Atlas of Cerebellar Cortical Gray Matter Thickness, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1334. Tosun D, Reiss AL, Prince JL, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2006). Measuring Increased Sulcal Complexity in Williams Syndrome using 3-D Cortical Morphometry, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1335. Wang YL, Chiang MC, **Thompson PM** (2006). Surface Mutual Information for Brain Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.

1336. Lui LM, Wang YL, Chan TF, **Thompson PM** (2006). Automatic Landmark Tracking and the Optimization of Brain Conformal Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1337. Gutman B, Wang YL, Lui LM, Chan TF, **Thompson PM** (2006). Hippocampal Surface Analysis Using Spherical Harmonic Functions Applied to Surface Conformal Mapping, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1338. Wang YL, Gu XF, Chan TF, Toga AW, **Thompson PM**, Yau ST (2006). Brain Surface Conformal Parameterization with Algebraic Functions, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1339. Kochunov PK, **Thompson PM**, Lancaster JL (2006). Age-related trends in gray matter thickness, sulcal and white matter atrophy during normal aging, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
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1341. Narr KL, Bilder RM, Wang YP, Luders E, **Thompson PM**, Woods RP, Robinson D, Szeszko P, Toga AW (2006). Asymmetries of Cortical Thickness and Shape: Effects of Handedness, Gender and Schizophrenia, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1342. Ogren JA, Staba RJ, Lin JJ, Salamon N, Dutton RA, Fields T, Luders E, Toga AW, Engel J, **Thompson PM**, Wilson CL (2006). *Mapping Hippocampal Radial Atrophy and High Frequency Oscillations in Mesial Temporal Lobe Epilepsy*, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1343. O'Hare ED, Lu LH, Bookheimer SY, Kan E, McCourt ST, Poldrack RA, **Thompson PM**, Toga AW, Sowell ER (2006). Mapping Relationships Between Cortical Thickness and Cortical Activation During Verbal Working Memory in Normally Developing Children and Adolescents, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.
1344. Lu LH, O'Hare ED, Bookheimer SY, Kan E, McCourt ST, **Thompson PM**, Toga AW, Sowell ER (2006). Mapping Activation During Verbal Learning and Recall in Normally Developing Children, 12th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Florence, Italy, June 11-15, 2006.

International Conference on Alzheimer's Disease (ICAD2006) and American Neurological Association (ANA) 2006

1345. Apostolova LG, Clark DG, Zoumalan C, Steiner CA, McMurtray A, Dutton RA, Hayashi KM, Toga AW, Cummings JL, Mendez MF, **Thompson PM** (2006). *3D Mapping of Gray Matter Atrophy in Semantic Dementia and Frontal Variant Frontotemporal Dementia*, International Conference on Alzheimer's Disease (ICAD2006), Madrid, Spain, 2006.
1346. Apostolova LG, Dinov ID, Zoumalan C, Steiner CA, Siu E, Toga AW, Cummings JL, Small GW, **Thompson PM**, Phelps ME, Silverman DH (2006). *MR-Guided 3D PET Mapping of Longitudinal Changes in Regional Cerebral Metabolism of Normal Subjects*, International Conference on Alzheimer's Disease (ICAD2006), Madrid, Spain, 2006.

1347. Apostolova LG, Lu P, Rogers S, Dutton RA, Hayashi KM, Toga AW, Cummings JL, **Thompson PM** (2006). *3D mapping of verbal memory performance in clinical and pre-clinical Alzheimer's disease*, 131st Annual Meeting of the American Neurological Association, Chicago, IL, October 8-11, 2006.

Society for Neuroscience (SFN) 2006

1348. Apostolova LG, **Thompson PM**, Steiner CA, Akopyan GG, Dutton RA, Toga AW, Cummings JL (2006). *Comparison of 3D Cortical Gray Matter Atrophy in Amnesic Mild Cognitive Impairment and Alzheimer's Disease*, 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1349. Foland LC, Altshuler LL, Eisenberger NI, Townsend J, Bookheimer SY, **Thompson PM** (2006). *Deficient modulation of amygdala activity by the prefrontal cortex in bipolar mania*, 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1350. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *Three-dimensional patterns of hippocampal volume reduction in unmedicated patients with bipolar disorder*, 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1351. Hayashi KM, Gothelf D, Furfaro JA, Eckert MA, Hall SS, O'Hara R, Erba HW, Patnaik S, Golianu B, Kraemer HC, Piven J, **Thompson PM**, Reiss AL (2006). *Specific Abnormalities of Brain Development in Fragile X Syndrome are Associated with Autistic Behaviors*, 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1352. O'Hare ED, Lu LH, Bookheimer SY, Kan E, McCourt ST, Poldrack RA, **Thompson PM**, Toga AW, Sowell ER (2006). *Mapping Relationships Between Cortical Thickness and Functional Activation During Verbal Working Memory in Normal Children*, 36th Annual Meeting of the Society for Neuroscience, Atlanta, Georgia, Oct. 14-18 2006.

1353. Boccardi M, Ganzola R, Sabattoli F, **Thompson PM**, Beltramello A, Geroldi C, Umiltà CA, Frisoni GB (2006). *Localization of hippocampal atrophy in frontotemporal dementia: a radial atrophy mapping study*, 5th International Conference on Frontotemporal Dementia, San Francisco, California, Sept. 6-8 2006.

1354. Ogren JA, Bragin A, Hoftman G, Staba RJ, Lin JJ, Salamon N, Dutton RA, Fields T, Toga AW, Engel J, **Thompson PM**, Wilson CL (2006). *Mapping Hippocampal Atrophy in Patients with Low-Voltage Fast and Hypersynchronous Seizure Onset Patterns*, Annual Conference of the American Epilepsy Society, 2006.

1355. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *3D mapping of hippocampal anatomy in unmedicated and lithium-treated bipolar patients*, Annual Meeting of the European College of Neuropsychopharmacology (ECNP), Paris, France, 16-20 September 2006.

American College of Neuropsychopharmacology (ACNP) 2006:

1356. Bearden CE, **Thompson PM**, Dutton RA, Frey B, Peluso M, Nicoletti M, Diershke N, Hayashi KM, Klunder AD, Glahn D, Brambilla P, Sassi RB, Mallinger AG, Soares JC (2006). *Three-dimensional mapping of hippocampal anatomy in unmedicated and lithium-treated patients with bipolar disorder*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.

1357. Becker JT, Juengst S, Lobaugh NJ, **Thompson PM**, Lopez OL, Aizenstein HJ (2006). *Brain Structural Abnormalities in HIV/AIDS Analyzed by the Method of Partial Least Squares*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.

1358. Bookheimer S, Braskie M, Burggren A, Miller K, Ercoli L, **Thompson PM**, Small GW (2006). *Functional MRI and Structure-Function Mapping in the Early Diagnosis of Alzheimer's Disease*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.
1359. Small GW, Kepe V, Ercoli LM, Siddarth P, Bookheimer SY, Miller KJ, Lavretsky H, Cole GM, Vinters HV, **Thompson PM**, Huang SC, Satyamurthy N, Phelps ME, Barrio JR (2006). *PET Imaging of Brain Amyloid and Tau Deposits*. Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2006, Hollywood, Florida, December 2006.
1360. Sun D, Phillips L, Velakoulis D, Yung A, McGorry PD, Wood SJ, van Erp TGM, **Thompson PM**, Toga AW, Cannon TD, Pantelis C (2007). *Progressive Brain Structural Changes Mapped as Psychosis Develops in 'At Risk' Individuals*, International Congress on Schizophrenia Research, Colorado Springs, CO, March 28-April 1, 2007, SCHIZOPHRENIA BULLETIN 33 (2): 356-357 MAR 2007.
1361. **Thompson PM** (2006). *Time-lapse Mapping of Brain Changes in Schizophrenia & over the Human Lifespan*, **International Journal of Neuropsychopharmacology** 9:S34, Suppl. 1 July 2006.
1362. Ringman JM, Dutton RA, Lai J, Medina L, Apostolova LG, Cummings JL, **Thompson PM** (2007). *Cortical Thinning Detected and Visualized in the Pre-Clinical Phase of Familial Alzheimer's Disease*, submitted to the American Academy of Neurology, 2007.
1363. Apostolova LG, Silverman DH, Green A, Rogers SA, **Thompson PM**, Dinov ID, Siu E, Toga AW, Cummings JL, Phelps ME, Small GW (2007). *ApoE4 Allele Influences longitudinal 3D hippocampal FDG-PET changes in nondemented elderly*, 2007 meeting of the American Academy of Neurology; NEUROLOGY 68 (12): A328-A328 Suppl. 1 MAR 20 2007.
1364. Carmichael O, **Thompson PM**, Dutton RA, Lu A, Lee S, Lee J, Kuller L, Lopez O, Aizenstein H, Meltzer C, Liu Y, Toga AW, Becker JT (2007). *Spatial mapping of ventricular changes related to dementia and mild cognitive impairment in a large community-based cohort*. 2007 meeting of the American Academy of Neurology; NEUROLOGY 68 (12): A328-A328 Suppl. 1 MAR 20 2007.
1365. Lu LH, Dapretto M, O'Hare ED, Kan E, McCourt ST, Jolley J, **Thompson PM**, Toga AW, Sowell ER (2007). *Right hemisphere involvement in language development observed with magnetic resonance imaging and neuropsychological measures*, 35th Annual International Neuropsychological Society (INS) Meeting, Portland, Oregon, February 7-10, 2007.

Society of Biological Psychiatry (SOBP) 2007

1366. London ED, Monterosso JR, Berman S, **Thompson PM**, Baicy K, Payer D (2007). *Deficits in Brain Structure and Function Associated with Methamphetamine Abuse: Impaired Cognitive Control and Therapeutic Approaches*, 62nd Annual Scientific Convention of the Society of Biological Psychiatry (SOBP), Westin Horton Plaza, San Diego, CA, May 17th-19th, 2007.
1367. Bearden CE, Soares JC, Klunder AD, Nicoletti M, Diershke N, Hayashi KM, Brambilla P, Sassi RB, Axelson D, Ryan N, Birmaher B, **Thompson PM** (2007). *Three-dimensional mapping of hippocampal anatomy in adolescents with early-onset bipolar disorder*, 62nd Annual Scientific Convention of the Society of Biological Psychiatry (SOBP), Westin Horton Plaza, San Diego, CA, May 17th-19th, 2007.

Human Brain Mapping Conference (OHBM) 2007

1368. Chiang MC, Reiss AL, Lee AD, Bellugi U, Galaburda AM, Korenberg JR, Mills DL, Toga AW, **Thompson PM** (2007). *3D Pattern of Brain Abnormalities in Williams Syndrome Visualized using Tensor-Based Morphometry*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.

1369. Lepore N, Shi Y, Lepore F, Voss P, Fortin M, Lassonde M, Dinov ID, Toga AW, **Thompson PM** (2007). *Hippocampal Shape Differences Detected in Blind versus Sighted Subjects*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1370. Chou YY, Leporé N, de Zubicaray GI, Rose SE, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2007). *Automated Ventricular Mapping via Multiple Surface-based Atlases*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1371. Chou YY, Leporé N, de Zubicaray GI, Rose SE, Carmichael OT, Becker JT, Toga AW, **Thompson PM** (2007). *Ventricular Shape Differences Mapped Automatically in Those at Genetic Risk for Alzheimer's Disease*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1372. Foland LC, Altshuler LL, Eisenberger NI, Townsend J, Bookheimer SY, **Thompson PM** (2007). *Functional connectivity of fronto-limbic networks in bipolar mania during an affective faces task*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1373. Ganzola R, Boccardi M, Sabattoli F, **Thompson PM**, Hayashi KM, Klunder AD, Beltramello A, Bonetti M, Geroldi C, Umiltà C, Frisoni GB (2007). *Localization of hippocampal atrophy in frontotemporal dementia: a radial atrophy mapping study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1374. Boccardi M, Frisoni GB, Ganzola R, Rossi R, Sabattoli F, **Thompson PM**, Klunder AD, Hayashi KM, Tiihonen J (2007). *Hippocampal morphology in psychopathic individuals*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1375. Pievani M, Testa C, Sabattoli F, Bonetti M, Hayashi KM, Lee AD, Dutton RA, **Thompson PM**, Frisoni GB (2007). *Effects of the ApoE genotype and age at onset in Alzheimer's Disease: a cortical pattern matching study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1376. Luders E, Narr KL, Bilder RM, **Thompson PM**, Szeszko PR, Hamilton L, Gurbani MN, Toga AW (2007). *Positive Correlations between Corpus Callosum Thickness and Intelligence*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1377. Sun D, Velakoulis D, Yung A, McGorry PD, Wood SJ, Phillips L, van Erp TGM, **Thompson PM**, Toga AW, Stuart GW, Cannon TD, Pantelis C (2007). *Brain surface contraction mapped in first-episode schizophrenia – a longitudinal magnetic resonance imaging study*, 13th Annual Meeting of the Organization for Human Brain Mapping (OHBM), Chicago, IL, June 10-14, 2007.
1378. Protas HD, Huang SC, Kepe V, Hayashi KM, Klunder AD, Braskie MN, Ercoli LM, Bookheimer SY, **Thompson PM**, Barrio JR, Small GW (2007). *Hemispheric Cortical Surface Map for Assessing the Rate of Changes of Regional Cortical FDDNP Distribution versus MMSE Score*, 54th Annual Meeting of the Society for Nuclear Medicine, June 2-6, 2007, Washington, DC.

Alzheimer's Association International Conference 2007

1379. Small GW, Protas HD, Huang SC, Kepe V, Siddarth P, Hayashi KM, Klunder AD, Braskie MN, Ercoli LM, Bookheimer SY, **Thompson PM**, Barrio JR (2007). *FDDNP Binding Values from Cortical Hemispheric Surface Maps Correlate with MMSE Scores*, Alzheimer's Association International Conference on the Prevention of Dementia, June 9-12, 2007, Marriott Wardman Park Hotel, Washington, DC.
1380. Alexander GE, Chen K, Reiman EM, Aschenbrenner M, Merkley TL, Hanson KD, Dale AM, Bernstein MA, Kornak J, Schuff N, Fox NC, **Thompson PM**, Weiner MW, Jack CR Jr (2007). *Regional Gray Matter Reductions in Alzheimer's Dementia and Amnesic Mild Cognitive Impairment: Preliminary Findings From the Alzheimer's*

Disease Neuroimaging Initiative Using Voxel-based Morphometry, Alzheimer's Association International Conference on the Prevention of Dementia, June 9-12, 2007, Marriott Wardman Park Hotel, Washington, DC.

1381. Becker JT, Lopez OL, Aizenstein HJ, Lobaugh NJ, **Thompson PM**, Juengst S (2007). *Brain Functional Alterations in HIV/AIDS Analysed by the Method of Partial Least Squares*, 34th Annual Meeting of the International Neuropsychological Society, 2007.

International Schizophrenia Congress 2007:

1382. Schall U, Mitchie PT, Ward PB, Fulham WR, Hughes M, Richards A, Todd J, Case V, Meyer L, Stone E, Johnston P, Rasser PE, **Thompson PM** (2007). *Multimodal Imaging of the Mismatch Negativity Deficit in Schizophrenia*, International Congress for Schizophrenia Research (ICSR), Colorado Springs, Colorado, April 2007.

American Neurological Association 2007

1383. Apostolova LG, **Thompson PM**, Green AH, Jack CR, Harvey D, Petersen RM, Thal L, Cummings JL, DeCarli C for the ADCS Group (2007). *3D comparison of low-to-intermediate vs. advanced hippocampal atrophy in MCI*, 132nd Annual meeting of the American Neurological Association, Washington DC, 2007.
1384. Apostolova LG, **Thompson PM**, Green AH, Jack CR, Harvey D, Petersen RM, Thal L, Cummings JL, DeCarli C for the ADCS Group (2007). *3D analysis of hippocampal atrophy progression in MCI subjects*, 132nd Annual meeting of the American Neurological Association, Washington DC, 2007.

American College of Neuropsychopharmacology (ACNP) 2007:

1385. Pantelis C, Sun D, Phillips L, Velakoulis D, Yung A, Wood SJ, **Thompson PM**, van Erp TGM, Toga AW, Proffitt TM, Henry LP, Harris MG, Cannon TD, McGorry PD (2007). *Are Cortical Gray Matter Changes in Schizophrenia Intermediate Phenotypes?*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.
1386. Bearden CE, van Erp TGM, Lee AD, Dutton RA, Simon TJ, Glahn DG, Cannon TD, Emanuel BS, Toga AW, **Thompson PM** (2007). *Alterations in Midline Cortical Thickness and Complexity Mapped in Children with 22q11.2 Deletions*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.
1387. Soares JC, Bearden CE, **Thompson PM**, Hayashi KM, Klunder AD, Nicoletti M, Diershke N, Brambilla P (2007). *Three-dimensional mapping of hippocampal anatomy in unmedicated patients with unipolar depression*, Annual Meeting of the American College of Neuropsychopharmacology (ACNP) 2007, Boca Raton, Florida, December 9-13 2007.

Society for Neuroscience (SFN) 2007:

1388. Foland LC, Altshuler LL, Leow AD, Sugar CA, Toga AW, **Thompson PM** (2007). *Lithium and Mood State Effects on Brain Structure in Subjects with Bipolar Disorder*, Soc. Neuroscience, San Diego, CA, USA.
1389. Ward PB, Schall U, Michie PT, **Thompson PM**, Rasser P, Fulham R (2007). *Mismatch Negativity Amplitudes in First-Episode and Chronic Schizophrenia: ERP, fMRI, and Cortical Grey Matter Evidence of Deficits in Deviance-Related Auditory Processing*, Soc. Neuroscience, San Diego, CA, USA.

1390. Apostolova LG, Mosconi L, Green A, **Thompson PM**, DeLeon M (2007). *Preclinical progression of hippocampal atrophy in cognitively normal subjects who convert to MCI and AD*, Annual Meeting of the American Neurological Association, Marriott Wardman Park, Washington, DC, October 2007.

Society of Biological Psychiatry (SOBP) 2008

1391. **Thompson PM** (2008). *Mapping Brain Changes in an Antipsychotic Trial*, Society of Biological Psychiatry 2008, Invited Presentation, Washington, DC, May 1-3 2008.

1392. van Erp TGM, Kieseppä T, Bearden CE, Sun D, Zimmermann LL, Tran HL, Correll C, Wobbekind A, Haukka J, Partonen T, Kaprio J, Lönnqvist J, Poutanen V, Toga AW, **Thompson PM**, Cannon TD (2008). *Cortical Gray Matter Density in Twins Discordant for Bipolar I Disorder*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1393. Sun D, van Erp TGM, Daley M, Bearden CE, Mkrtychyan A, Toga AW, **Thompson PM**, Cannon TD (2008). *Cortical gray matter mapping during the psychosis prodrome*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1394. Foland LC, Townsend J, Bookheimer SY, Thompson PM, Altshuler LL (2008). *A functional magnetic resonance imaging study of bipolar disorder: Elucidating state- and trait-related changes in prefrontal cortex*, Society of Biological Psychiatry 2008, Washington, DC, May 1-3 2008.

1395. Bearden CE, **Thompson PM**, Hayashi KM, Klunder AD, Nicoletti MA, Dierschke N, Kopecek M, Brambilla P, Soares JC (2008). Three-dimensional mapping of hippocampal anatomy in unmedicated patients with unipolar depression, **Society of Biological Psychiatry** 2008, Washington, DC, May 1-3 2008.

American Academy of Neurology (AAN) 2008

1396. Harris R, Alcantara D, Amenta N, Lopez OL, Eiriksdóttir G, Sigurdsson S, Gudnason V, **Thompson PM**, Launer L, Carmichael OT (2008). *Localized Measures of Callosal Atrophy Are Associated with Late-Life Hypertension in a Population-Based Study: AGES-Reykjavik Study*, Proc. American Acad. Neurology, 2008.

1397. Apostolova LG, Beyer MK, Green AE, Avedissian C, Hwang K, Aarsand D, Janvin CC, Larsen JP, Cummings JL, **Thompson PM** (2008). *Hippocampal Atrophy in Parkinson's Disease Patients with Mild Cognitive Patients*, Proc. American Acad. Neurology, 2008.

American Psychiatric Association (APA) 2008

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- 448.Colby JB, Soderberg L, Lebel C, Dinov ID, **Thompson PM**, Sowell ER (2011). Along-tract statistics allow for enhanced tractography analysis, Conference of the International Society for Magnetic Resonance in Medicine, **ISMRM 2001**.
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471. Villalon J, Neda Jahanshad, Arthur W. Toga PhD, **Thompson PM**, Tony J. Simon PhD (2011). *White matter microstructural abnormalities in children with 22q deletion syndrome, Fragile X and Turner syndrome as evidenced by diffusion tensor imaging*, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
472. Sun D, Theo van Erp¹ Kathleen Chak; Leila Kushan; Wendy Lau; Sarah Jacobson; Carrie E. Bearden; Arthur W. Toga; **Thompson PM**; Tyrone D. Cannon, and the NAPLS Consortium (2011). **Altered Structural Brain Developmental Trajectory in Youth at Clinical Risk for Psychosis**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.

- 473.Looi J, Rajagopalan P, Walterfang M, Madsen S, **Thompson PM**, Chua P, Velakoulis D (2011). Altered Striatal Morphology in Huntington's disease, Frontotemporal Dementia & Alzheimer's Disease, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 474.Pievani M, Martina Bocchetta, Marina Boccardi, Samantha Galluzzi, Matteo Bonetti, **Thompson PM**, Giovanni B Frisoni. (2011). **Nucleus Accumbens atrophy in early- and late-onset Alzheimer's disease**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 475.Colby J, Soderberg L, Lebel C, Dinov ID, **Thompson PM**, Sowell ER (2011). Enhanced localization in Tractography Analyses with along-tract statistics, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 476.Boyle C, Xue Hua, Reva Stidd, Jay N. Giedd, Judith L. Rapoport Arthur W. Toga, **Thompson PM**, Nitin Gogtay (2011). **Intellectual Ability and Regional Cerebral Volumes in Normal Children assessed using Tensor-Based Morphometry**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 477.Craddock RC, Stephen LaConte, F. Xavier Castellanos, Xi-Nian Zuo, **Thompson PM**, Greig de Zubicaray, Katie McMahon, Ian Hickie, Nicholas Martin, Margaret Wright, Michael Milham (2011). **Genetics Influence Inter-subject Brain State Prediction**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 478.Apostolova LG, Coppola G, Kohannim O, **Thompson PM** (2011). **Automated diagnostic classifiers using imaging, genotyping, and gene expression**, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 479.Prasad G, Jahanshad N, Aganj I, Lenglet C, Sapiro G, Toga AW, **Thompson PM** (2011). Atlas-Based Fiber Clustering for Multi-Subject HARDI Tractography, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 480.Lepore N, Joshi AA, Villalon J, Brun CC, Gee J, McMahon KL, de Zubicaray GI, Wright MJ, **Thompson PM** (2011). A Tensor-Based Morphometry Study of Twins using a New Combined Surface and Volume Registration Algorithm, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 481.Wang YL, Panigrahy A, Shi J, Ceschin R, Nelson MD, **Thompson PM**, Lepore N (2011). Subcortical Structures Morphometry in Premature Neonates: A Parametric Surface-based Approach, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.
- 482.Hegarty C, Foland-Ross LC, Narr KL, Yang Y, Sugar CA, Bookheimer SY, McGough J, Thompson PM, Altshuler LL (2011). Cortical Thickness Analysis indicates a Bipolar-ADHD interaction in Co-Morbid Adults, **Organization for Human Brain Mapping meeting**, June 2011, Quebec City, Canada.

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- 483.Burgaleta M, Roman FJ, Privado J, Escorial S, Stein JL, Martínez K, Alvarez-Linera J, **Thompson PM**, Colom R (2011). White matter integrity correlates with individual differences in working memory capacity and executive function, **International Society for the Study of Individual Differences 2011**.

International Conference on Alzheimer's Disease (ICAD) 2011 (15 abstracts)

- 484.Liana G. Apostolova, Kristy S. Hwang, Giovanni Coppola, Jason J. Lee, Fuying Gao, Jeffrey L. Cummings, **Thompson PM** (2011). **Peripheral blood gene expression correlates of cortical atrophy across cognitively**

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- 485.Liana G. Apostolova, Kristy Hwang, Omid Kohannim, Giovanni Coppola, Fying Gao, Jeffrey L. Cummings, **Thompson PM** (2011). **Automated diagnostic classifiers using imaging, genotyping, and gene expression data**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 486.Po H. Lu¹, Grace J. Lee¹, Xue Hua^{1,2}, Alex D. Leow^{1,2,3}, Stephanie Melchor¹, Arthur W. Toga^{1,2}, Clifford R. Jack, Jr.⁴, Michael W. Weiner⁵, **Thompson PM**, and the Alzheimer's Disease Neuroimaging Initiative (2011). **Age-Associated Memory Impairment is Associated with Greater Rate of Longitudinal Brain Atrophy**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 487.Grace J. Lee¹, Po H. Lu¹, Xue Hua^{1,2}, Suh Lee^{1,2}, Alex D. Leow^{1,2,3}, Stephanie Wu¹, Ken Nguyen¹, Edmond Teng^{1,4}, George Bartzokis^{2,5}, Arthur W. Toga^{1,2}, Clifford R. Jack, Jr.⁶, Michael W. Weiner, Ph.D.⁷, **Thompson PM** and the Alzheimer's Disease Neuroimaging Initiative,(2011). **Depression Predicts Progressive Brain Atrophy in Mild Cognitive Impairment: An ADNI study**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 488.Annapaola Prestia, PsyD ⁽¹⁾, Annalisa Baglieri, PsyD ⁽²⁾, Matteo Bonetti, MD ⁽³⁾, Paul E. Rasser, MSc, ⁽⁴⁾, **Thompson PM**, and Giovanni B. Frisoni, MD ⁽¹⁾(2011). **In vivo localization of aging and Alzheimer's disease effects on cortical gray matter in normal elderly and patients with mild cognitive impairment**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 489.Enrica Cavedo,¹ MS, Michela Pievani,¹ MS, Marina Boccardi,¹ PhD, Samantha Galluzzi,¹ MD, Matteo Bonetti,² MD, **Thompson PM**, Giovanni B. Frisoni,¹ MD (2011). **Amygdalar local structural differences in early- and late-onset Alzheimer's patients**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
- 490.Sona Babakchanian^{1,2}, Kristy S. Hwang^{1,2}, Giovanni Coppola¹, Sterling Johnson³, **Thompson PM**, Jason J. Lee¹, Jeffrey L. Cummings⁴, Liana G. Apostolova^{1,2} (2011). **TOMM40 rs2075650 and TOMM40 PolyT Polymorphism Effects on Ventricular Enlargement in Individuals with and without Mild Cognitive Impairment**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
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- 492.Sona Babakchanian^{1,2}, Kristy S. Hwang^{1,2}, Ellen Woo¹, Matthew Wright³, Amity E. Green⁴, Michael LaRocca⁵, Charleen Zoumalan¹, Benjamin Wang¹, **Thompson PM**, Liana G. Apostolova^{1,2} (2011). **The Effects of Free Recall and Semantic Clustering on Cortical Thickness**, International Conference on Alzheimer's Disease (ICAD) 2011, July 16-21, Paris, France.
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- 494.Nicole Chow, BS, Kristy Hwang, BS, John Ringman, MD, Edward Teng, MD, PhD, **Thompson PM**, Greg Cole, PhD, Karen Gyls, PhD, Clifford R. Jack, MD, Leslie Shaw, PhD, Holly Soares, PhD, Michael Weiner, MD, Liana G.Apostolova, MD, MS (2011). **Plasma protein associations with hippocampal atrophy across the cognitive spectrum from normal aging to Alzheimer's disease**, International Conference on Alzheimer's

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520. Sona Babakchanian^{1,2}, Ellen Woo¹, Matthew Wright³, Amity E. Green⁴, Charleen Zoumalan¹, Benjamin Wang¹, Paul M. Thompson^{1,2}, Liana G. Apostolova^{1,2} **Age Effects on Cortical Thickness in Cognitively Normal Elderly Individuals with and without Mild Cognitive Impairment, AAN 2012.**

521. James T. Becker, PhD, Leonid Teverovisky, MS, H. Gach, PhD MS, Owen T. Carmichael, PhD, **Paul M. Thompson**, Lewis Kuller and Oscar L. Lopez, MD. Differential Rates of Brain Volume Loss as a Function of Time to Develop AD among Cognitively Normal Individuals, **AAN 2012.**

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- 528.Benzinger TLS, Blazey T, Koeppe R, Jack CR, Raichle M, Su Y, Marcus D, **Thompson PM**, Saykin AJ, Correia S, Johnson K, Sperling R, Schofield P, Rowe C, Fox NC, Brickman AM, Morris JC (2012). [¹¹C] PIB, FDG and MR findings of preclinical AD in the DIAN cohort, **Human Amyloid Imaging (HAI) meeting**, 2012.
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- 530.Meredith N. Braskie¹, Omid Kohanim¹, Neda Jahanshad^{1,6}, Ming-Chang Chiang¹, Marina Barysheva¹, Kori Johnson^{2,4}, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Margaret J. Wright⁴, John M. Ringman⁵, Arthur W. Toga¹, Paul M. Thompson (2012). **Genetic variation within *NTRK3* influences white matter integrity in healthy young adults**, UC Irvine Conference on Imaging Genetics, Irvine, CA, Jan. 2012.
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- 533.Xue Hua PhD¹, Derrek P. Hibar¹, Arthur W. Toga PhD¹, Clifford R. Jack Jr MD², Michael W. Weiner MD^{3,4,5,6,7}, **Paul M. Thompson PhD¹** and the Alzheimer's Disease Neuroimaging Initiative (2012). **Improved Power and Robustness of Tensor-Based Morphometry for Tracking Mild Cognitive Impairment**, **Organization for Human Brain Mapping (OHBM 2012)**, Beijing, China, June 10-14, 2012.
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- 561.Prasad G, Kohannim O, Joshi S, Jahanshad N, Villalon J, de Zubicaray GI, McMahon KL, Martin NG, Wright MJ, Aganj I, Sapiro G, Toga AW, **Thompson PM** (2012). Genetic Analysis of Fibers in White Matter Pathways from HARDI Images, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 562.Christina Boyle¹, Cyrus A. Raji², Leonid Teverovskiy², Priya Rajagopalan¹, Sarah K. Madsen¹, Lewis Kuller², Owen T. Carmichael², James T. Becker², Oscar L. Lopez², Paul M. Thompson¹ (2012). **Fish Consumption and Brain Structure in a Multi-Site Community Cohort**, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 563.Jie Shi, **Paul M. Thompson**, Yuting Wang, Boris Gutman, Yalin Wang, and the Alzheimer's Disease Neuroimaging Initiative (2012). Surface Fluid Registration and Its Application to Human Brain Mapping, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012.
- 564.Tian Ge, Jianfeng Feng, Derrek Hibar, **Paul M. Thompson**, Thomas Nichols (2012). Increasing Power for Voxel-wise Genome-wide Association Studies, Organization for Human Brain Mapping (OHBM 2012), Beijing, China, June 10-14, 2012 [Also Platform Talk].

ICAD/AAIC Conference 2012

- 565.Michela Pievani¹, Martina Bocchetta¹, Marina Boccardi¹, Samantha Galluzzi¹, Matteo Bonetti², **Paul M Thompson³**, Giovanni B Frisoni¹ (2012). **Morphological changes in the striatum in early and late onset Alzheimer's disease, AAIC Conference, 2012.**
- 566.Benzinger TLS¹, Blazey T¹, Koeppe R², Jack CR³, Raichle M¹, Su Y¹, Snyder A¹, Marcus D¹, **Thompson PM⁵**, Saykin AJ⁶, Correia S⁷, Johnson K⁸, Sperling R⁸, Schofield P⁹, Rowe C¹⁰, Fox NC¹¹, Brickman AM¹², Mayeux R¹², Rimajova M, Mathis C⁴, McDade E⁴, Klunk W⁴, Weiner M¹⁴, Bateman R¹, Fagan A¹, Goate A¹, Xiong C¹, Buckles V¹, Moulder K¹, Morris JC¹ (2012). **Elevated [¹¹C] PIB precedes dementia in autosomal dominant AD by up to 25 years: PIB, FDG and atrophy AD in the DIAN cohort, ICAD Conference, 2012.**
- 567.Benzinger TLS¹, Blazey T¹, Koeppe R², Jack CR³, Raichle M¹, Ances B¹, Snyder A¹, Marcus D¹, Thompson PM⁵, Saykin AJ⁶, Correia S⁷, Johnson K⁸, Sperling R⁸, Schofield P⁹, Rowe C¹⁰, Fox NC¹¹, Brickman AM¹², Mayeux R¹², Rimajova M, Mathis C⁴, McDade E⁴, Klunk W⁴, Weiner M¹⁴, Bateman R¹, Fagan A¹, Goate A¹, Xiong C¹, Buckles V¹, Moulder K¹, Morris JC (2012). **Progressive White Matter Abnormalities in Autosomal Dominant AD: Results of the DIAN Study, ICAD Conference, 2012.**
- 568.Chhatwal J, Schultz A, Johnson K, Benzinger TLS, Jack CR, Salloway S, Ringman J, Koeppe R, Marcus D, **Thompson PM**, Saykin AJ, Correia S, Schofield P, Rowe C, Fox NC, Brickman AM, Mayeux R, Rimajova M, Mathis C, McDade E, Klunk W, Weiner M, Bateman R, Fagan A, Goate A, Xiong C, Buckles V, Moulder K,

- Morris JC, Sperling RA (2012). Impaired default network functional connectivity in autosomal dominant Alzheimer's disease: Findings from the DIAN study, **ICAD Conference, 2012.**
569. Cash DM¹, Ridgway GR¹, Ryan NS¹, Kinnunen KM¹, Yeatman T¹, Malone I¹, Benzinger TLS², Koeppe R³, Jack CR⁴, Raichle M², Marcus D², Ringman J⁶, **Thompson PM**⁶, Saykin AJ⁷, Salloway S⁸, Correia S⁸, Johnson K⁹, Sperling R⁹, Schofield P¹⁰, Rowe C¹¹, Brickman AM¹², Mayeux R¹², Mathis C⁵, McDade E⁵, Klunk W⁵, Weiner M¹⁴, Bateman R², Goate A², Xiong C², Buckles V², Moulder K², Morris JC², Rossor MN¹, Ourselin S¹, Fox NC¹ (2012). A Voxel Based Morphometry Study of Volumetric MRI in Familial Alzheimer's Disease, **ICAD Conference, 2012.**
570. Kinnunen KM¹, Cash DM¹, Liang Y¹, Leung KK¹, Cardoso MJ¹, Modat M¹, Yeatman T¹, Malone I¹, Benzinger TLS², Koeppe R³, Jack CR⁴, Raichle M², Marcus D², Ringman J⁶, **Thompson PM**⁶, Saykin AJ⁷, Salloway S⁸, Correia S⁸, Johnson K⁹, Sperling R⁹, Schofield P¹⁰, Rowe C¹¹, Brickman AM¹², Mayeux R¹², Mathis C⁵, McDade E⁵, Klunk W⁵, Weiner M¹⁴, Bateman R², Goate A², Xiong C², Buckles V², Moulder K², Morris JC², Rossor MN¹, Ourselin S¹, Fox NC¹ (2012). Cross-sectional cerebral volumetric differences and associations with estimated time to age-at-onset in familial Alzheimer's disease: Findings from the DIAN study, **ICAD Conference, 2012.**
571. Kinnunen KM¹, Cash DM¹, Leung KK¹, Liang Y¹, Cardoso MJ¹, Modat MM¹, Nicholas J¹, Benzinger TLS², Koeppe R³, Jack CR⁴, Raichle M², Marcus D², Ringman J⁶, **Thompson PM**⁶, Saykin AJ⁷, Salloway S⁸, Correia S⁸, Johnson K⁹, Sperling R⁹, Schofield P¹⁰, Rowe C¹¹, Brickman AM¹², Mayeux R¹², Mathis C⁵, McDade E⁵, Klunk W⁵, Weiner M¹⁴, Bateman R², Goate A², Xiong C², Buckles V², Moulder K², Morris JC², Rossor MN¹, Ourselin S¹, Fox NC¹ (2012). Brain and hippocampal rates of atrophy in familial Alzheimer's disease mutation carriers: preliminary findings from the DIAN study. **ICAD Conference, 2012.**
572. Becker JA, Koeppe R, Sperling RA, Benzinger TLS¹, Blazey T¹, Jack CR³, Raichle M¹, Su Y¹, Snyder A¹, Marcus D¹, **Thompson PM**⁵, Saykin AJ⁶, Correia S⁷, Schofield P⁹, Rowe C¹⁰, Fox NC¹¹, Brickman AM¹², Rimajova M, Mathis C⁴, McDade E⁴, Weiner M¹⁴, Bateman R¹, Fagan A¹, Goate A¹, Xiong C¹, Buckles V¹, Moulder K¹, Morris JC¹, Johnson KA (2012). FDG Metabolism in the DIAN study of Autosomal Dominant Alzheimer's Disease, **ICAD Conference, 2012.**
573. Kristy S. Hwang^{1,3}, Giovanni Coppola², **Paul M. Thompson**^{1,2,3}, Jeffrey L. Cummings⁴, Liana G. Apostolova^{1,3} (2012). **Microtubule-associated protein tau H2 haplotype is associated with frontotemporal atrophy in cognitively normal elders**, **ICAD Conference, 2012.**
574. Liana G. Apostolova, Kristy Hwang, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson (2012). Predicting brain amyloidosis in MCI using clinical, cognitive, imaging and peripheral blood protein measures**, **ICAD Conference, 2012 [Late-Breaking Abstract].**

FTD 2012

575. Looi J, Rajagopalan P, Walterfang M, Madsen S, **Thompson PM**, McFarlane MD, Ching C, Chua P, Velakoulis D (2011). Differential Putaminal Morphology in Huntington's disease, Frontotemporal Dementia & Alzheimer's Disease, **8th International Conference on Fronto-Temporal Dementias**, Manchester, Sept. 5-7 2012.
576. *C Raji, MD, PhD, Pittsburgh, PA; K Erickson, PhD; O Lopez, MD; J T Becker, PhD; O Carmichael, PhD; H Gach; P Thompson, et al. (2012). Energy Expenditure is associated with brain injury in normal cognition, MCI, and AD, RSNA 2012.*
577. Saykin AJ, Shen L, Risacher SL, Swaminathan S, Kim S, Nho K, **Thompson PM**, Potkin SG, Farrer LA, Lovestone S, Jack CR, Jagust WJ, Weiner MW, and the Alzheimer's Disease Neuroimaging Initiative (ADNI). Structural, functional and molecular imaging as intermediate phenotypes for studies of candidate genes, pathways

and GWAS in Alzheimer's disease. Oral presentation, Featured Research Session (FRS), Alzheimer's Association International Conference (AAIC) in Vancouver, British Columbia, Canada, July 14-19, 2012.

578. John Kyle Brubaker, B.S.*, Mohamad Navab, M.D.*, Paul Thompson, Ph.D.^, Samra Vazirian, M.D. (2012). *Blood Pressure and Cognitive Function: A Look at the Interplay Between Hypertension, Obesity, and their Effects on General Cognition*, **International Academy of Cardiology**, 17th World Congress on Heart Disease (WCHD), Toronto, July 27-30, 2012.
579. John Kyle Brubaker, B.S.*, Mohamad Navab, M.D.*, Paul Thompson, Ph.D.^, Samra Vazirian, M.D. (2012). *How Exercise Can Help Thwart the Pernicious Effects of Obesity*, **International Academy of Cardiology**, 17th World Congress on Heart Disease (WCHD), Toronto, July 27-30, 2012.

Society for Neuroscience (SFN) 2012 (16 abstracts)

580. Neda Jahanshad¹, Xue Hua¹, Priya Rajagopalan¹, Derrek P. Hibar¹, Arthur W. Toga¹, Cliff R. Jack, Jr.², Michael W. Weiner^{3,4}, Sarah E. Medland⁷, Katie L. McMahon⁵, Greig I. de Zubicaray⁶, Grant W. Montgomery⁷, Nicholas G. Martin⁷, Margaret J. Wright⁷, **Paul M. Thompson¹** and the Alzheimer's Disease Neuroimaging Initiative (2012). Connectome-wide genome-wide scan of young adults discovers common genetic variant associated with dementia severity in the elderly, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
581. Omid Kohannim¹, Derrek P. Hibar¹, Diana Tehrani¹, Emily L. Dennis¹, Neda Jahanshad^{1,2}, Arthur W. Toga¹, Clifford R. Jack Jr.³, Michael W. Weiner^{4,5}, **Paul M. Thompson¹** for the Alzheimer's Disease Neuroimaging Initiative (2012). Common variants in neural cell adhesion genes are associated with hippocampal volume on MRI in elderly subjects, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
582. Talia M. Nir¹, Neda Jahanshad¹, Arthur W. Toga¹, Bret Borowski², Matt A. Bernstein², Clifford R. Jack Jr.², Michael W. Weiner³, **Paul M. Thompson¹** (2012). Diffusion tensor imaging reveals widespread white matter abnormalities in cognitively impaired elderly subjects, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
583. Florence F. Roussotte, Neda Jahanshad, Omid Kohannim, Elizabeth R. Sowell, Priya Rajagopalan, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2012). A single-nucleotide polymorphism (SNP) in the delta-opioid receptor gene, *OPRD1*, is associated with differences in regional brain volumes in elderly adults, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
584. Yaling Yang, Ph.D., Pan Wang, Ph.D., Laura A. Baker Ph.D., Hanna Damasio, M.D., Anand A. Joshi Ph.D., Shantanu Joshi, Ph.D., Katherine L. Narr, Ph.D., Adrian Raine, D. Phil. & **Paul M. Thompson, Ph.D.** (2012). Abnormal cortical thickness associates with psychopathic traits in adolescents, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
585. Diana Tehrani¹, Omid Kohannim¹, Neda Jahanshad^{1,2}, Emily Dennis¹, Katie L. McMahon³, Greig I. de Zubicaray⁴, Sarah E. Medland⁵, Grant W. Montgomery⁵, Nicholas G. Martin⁵, Margaret J. Wright⁵, **Paul M. Thompson** (2012). Common variant in autism risk gene, *RBFox1*, is associated with altered temporal lobe structure in 694 healthy young adults, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
586. Emily L. Dennis¹, Neda Jahanshad¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Ian B. Hickie⁵, Margaret J. Wright^{3,4}, Paul M. Thompson¹ (2012). Altered structural brain connectivity in healthy carriers of schizophrenia risk gene, *DISC1*. **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.

- 587.S. K. MADSEN, L. LIANG, P. TECHATHAVEEWAT, V. CHIKARIAN, M. BRASKIE, S.Y. Bookheimer, G. SMALL, P. M. THOMPSON (2012). Thyroid hormone levels are associated with fronto-parietal cortical gray matter thickness in the elderly, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 588.Christopher Ching, Priya Rajagopalan, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, Paul M. Thompson (2012). Elderly people with lower vitamin B12 levels have smaller hippocampal and caudate volumes, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 589.April B. Ryles¹, Omid Kohannim¹, Arthur W. Toga¹, Clifford R. Jack Jr.², Michael W. Weiner^{3,4}, Katie L. McMahon⁵, Greig I. de Zubicaray⁶, Grant W. Montgomery⁷, Nicholas G. Martin⁷, Margaret J. Wright⁷, Paul M. Thompson (2012). **Alzheimer's disease risk variant in the *FRMD6* gene is associated with altered brain structure: Opposite Effects in 740 elderly and 755 young adults**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 590.Priya Rajagopalan¹, Boris Gutman¹, Arthur W. Toga¹, Clifford R. Jack Jr.², Michael W. Weiner^{3, 4}, Paul M. Thompson (2012). **Plasma cortisol is associated with accelerated brain atrophy: An Alzheimer's Disease Neuroimaging Initiative (ADNI) study**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 591.L. Zhan¹, D. Arienzo², B. A. Mueller³, C. Lenglet⁴, G. Sapiro⁵, K. O. Lim³, P.M. Thompson¹ (2012). Differences in structural brain networks between young adulthood and old age, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 592.Boris Gutman¹, Priya Rajagopalan¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Paul M. Thompson (2012). Alzheimer's risk genotypes in the *APOE* and *TOMM40* genes are associated with faster ventricular expansion rates: An N=644 ADNI study, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 593.Julio Villalon, Gautam Prasad, Maria Jalbrzikowski, Carolyn Chow, Paul M. Thompson, and Carrie E. Bearden (2012). **Visual and verbal memory circuitry disruption in 22q11.2DS revealed by DTI tractography**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 594.Derrek P. Hibar, Jason L. Stein, Sarah E. Medland, Neda Jahanshad, Narelle K. Hansell, Katie L. McMahon, Greig I. de Zubicaray, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2012). **Genetic clustering reveals distinct sectors of the human hippocampus with coherent genetic determination, based on MRI scans of 526 twins**, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 595.Gautam Prasad, Shantanu Joshi, Neda Jahanshad, Julio Villalon, Katie L. McMahon, Greig I. de Zubicaray, Grant W. Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2012). Genetic contributions to white matter pathways in 565 twins, **Society for Neuroscience Annual Conference**, New Orleans, LA, 2012.
- 596.Joel Ross¹, **Paul M. Thompson**², Pierre Tariot³, Eric Reiman³, Lon S. Schneider⁴, Enrico Frigerio⁵, Francesco Fiorentini⁵, Luciana Giardino⁶, Laura Calzà⁶, Dottie Norris⁷, Helen Cicirello⁷, Daniela Casula⁷, Bruno P. Imbimbo (2012). **Primary and Secondary Prevention Trials in Subjects at Risk of Developing Alzheimer's Disease: the GEPARD-AD (Genetically Enriched Population At Risk of Developing Alzheimer's Disease) Studies**, CTAD conference, Monte Carlo, Monaco, October 29-31, 2012.

International Conference on Frontotemporal Dementias

597. Grace J. Lee, Po H. Lu, Paul M. Thompson, Mario F. Mendez (2012). **Performance on proverbs test is associated with left anterior temporal volume in patients with behavioral FTD and early-onset Alzheimer's disease.** International Conference on Frontotemporal Dementias, 2012.
598. Grace J. Lee, Po H. Lu, Paul M. Thompson, Mario F. Mendez (2012). **Regional brain differences between behavioral FTD and early-onset Alzheimer's disease.** International Conference on Frontotemporal Dementias, 2012.
599. Eastman JA, Hwang KS, Babakchian S, Chow N, Ramirez L, Thompson PM, Apostolova LG (2012). The Relationship between Cortical Thickness and Verbal Memory, **American Psychological Association Conference, Orange County, 2012.**
600. Eastman JA, Hwang KS, Babakchian S, Chow N, Ramirez L, Thompson PM, Apostolova LG (2012). The Relationship between Cortical Thickness and Verbal Memory, **INS 2012.**
601. Miguel Burgaleta^{1,2,3}, Francisco J Román¹, Kenia Martínez¹, Jesús Privado⁴, Manuel Froufe¹, Ilaria Albano¹, Sergio Escorial⁴, Pei Chun Shih¹, M. A. Quiroga⁴, Juan Álvarez-Linera³, Sherif Karama⁵, Richard Haier⁶, Paul M. Thompson⁷, Susanne Jaeggi⁸, & Roberto Colom (2012). **Adaptive working memory training increases integrity of the corpus callosum, ISIR 2012, San Antonio, TX.**
602. Roberto Colom (1), Francisco J Román (1), Jesús Privado (2), Manuel Froufe (1), Ilaria Albano (1), Sergio Escorial (2), Kenia Martínez (1), Pei Chun Shih (1), Miguel Burgaleta (1,3), M. A. Quiroga (3), Sherif Karama (4), Richard Haier (5), Paul M Thompson (6), & Susanne M Jaeggi (7). **(2012).** Can intelligence be improved by adaptive working memory (n back) training? **ISIR 2012, San Antonio, TX.**
603. Jennifer A. Eastman, Kristy S. Hwang, Andreas Lazaris, Nicole Chow, Leslie M. Ramirez, Sona Babakchian, Ellen Woo, **Paul M. Thompson**, Liana G. Apostolova (2012). 3D Mapping of Semantic Fluency in Clinical and Pre-Clinical Alzheimer's Disease, INS 2012.
604. Michela Pievani¹, Martina Bocchetta¹, Marina Boccardi¹, Enrica Cavedo¹, Matteo Bonetti², **Paul M Thompson³**, Giovanni B Frisoni¹ **(2013).** EFFECT OF *APOE* GENOTYPE ON STRIATAL ATROPHY IN EARLY AND LATE ONSET ALZHEIMER'S DISEASE, **AAIC 2013.**

AAN and AAIC 2013

605. Nicole Chow, Kristy Hwang, **Paul M. Thompson**, Clifford R. Jack Jr, MD, Michael Weiner, and Liana Apostolova (2013). Comparing 3T and 1.5T MRI for Mapping Hippocampal Atrophy in the Alzheimer's Disease Neuroimaging Initiative (ADNI). **AAN 2013.**
606. Enrica Cavedo,¹ MS, Michela Pievani,¹ PhD, Marina Boccardi,¹ PhD, Samantha Galluzzi,¹ MD, Matteo Bonetti,² MD, **Paul M. Thompson,³ PhD**, Giovanni B. Frisoni,¹ MD (2012). **Association between amygdalar shape changes and hippocampal atrophy in early-onset and late-onset Alzheimer's disease, AAIC 2013.**
607. Grace J. Lee, Po H. Lu, Jill Shapira, Michelle Mather, Natalie Kaiser, Elvira Jimenez, Paul M. Thompson, Mario F. Mendez (2013). **Neuroanatomical correlates of emotional blunting in behavioral variant frontotemporal dementia, AAN 2013.**
608. Grace J. Lee, Po H. Lu, Jill Shapira, Michelle Mather, Natalie Kaiser, Elvira Jimenez, Paul M. Thompson, Mario F. Mendez (2013). **Neuroanatomical correlates of symptoms on the Frontal Systems Behavior Scale in frontotemporal dementia and early-onset Alzheimer's disease, AAN 2013.**

609. Kristy S. Hwang, Omid Kohannim, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, **Paul M. Thompson**, Liana G. Apostolova, and the Alzheimer's Disease Neuroimaging Initiative (2013). **Automated diagnostic classifiers for mild cognitive impairment and Alzheimer's disease, AAN 2013.**
610. Jennifer A. Eastman, Kristy S. Hwang, Andreas Lazaris, Nicole Chow, Leslie M. Ramirez, Sona Babakchian, Ellen Woo, Paul M. Thompson, Liana G. Apostolova (2013). **The Relationship Between Cortical Thickness and Semantic Fluency, AAN 2013.**
611. Leslie M. Ramirez, Kristy S. Hwang, Jennifer A. Eastman, Sona Babakchian, Renee Sears, Eric Klein, Fuying Gao, Giovanni Coppola, **Paul M. Thompson**, Liana G. Apostolova (2012). Common variants in ABCA7, MS4A6, and PICALM are associated with cortical atrophy. **AAN 2013.**
612. Liana G. Apostolova, Kristy Hwang, Omid Kohannim, Clifford R. Jack Jr, Leslie Shaw, John Q. Trojanowski, Michael W. Weiner, Paul M. Thompson (2013). Presence of brain amyloidosis can be ascertained from cognitive, imaging and peripheral blood protein measures, **AAN 2013.**
613. Sona Babakchian^{1,2}, Nicole Chow^{1,2}, Amity E. Green³, Johanne H. Somme⁴, Kristy S. Hwang^{1,2}, Clifford R. Jack⁵, Paul M. Thompson^{1,2}, Liana G. Apostolova (2013). **Automated and Manual Hippocampal Segmentation Techniques: A Comparison and Reproducibility Analysis, AAN 2013.**
614. K.-K. Shen¹, S. Rose¹, J. Fripp¹, K. L. McMahon², G. I. de Zubicaray³, N. G. Martin⁴, **P. M. Thompson**⁵, M. J. Wright⁴, O. Salvado (2013). Test-Retest Reliability in Fibre Orientation Distribution (FOD) Measurements in HARDI Data, submitted to **ISMRM 2013.**
615. Peter Kochunov, Charles Peterson, Neda Jahanshad, Thomas E. Nichols, Bennett Landman, Paul M. Thompson, David G. Glahn and John Blangero. **SOLAR-Eclipse computational tools for genetic and mega-genetic analysis, Irvine Imaging Genetics Conference, Jan. 2013.**
616. Theo G.M. van Erp, Derrek P. Hibar, Jerod Rasmussen, Steven G. Potkin, Roel Ophoff, Ole Andreassen, Ingrid Agartz, Stefan Erlich, Unn Haukvik, Oliver Gruber, Lei Wang, **Paul M. Thompson**, Jessica Turner (the ENIGMA-Schizophrenia Working Group) (2013). A Large-Scale Meta-Analysis of Subcortical Brain Volume Abnormalities in Schizophrenia via the ENIGMA Consortium, **Society for Biological Psychiatry (SOBP), 2013.**
- OHBM 2013 (30 abstracts)**
617. Florence F. Roussotte¹, Neda Jahanshad¹, Derrek P. Hibar¹, Elizabeth R. Sowell², Katie L. McMahon⁴, Greig I. de Zubicaray⁵, Margaret J. Wright³, **Paul M. Thompson**^{1,6}, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2013). Abnormal brain structure in addiction risk gene carriers: associations with dopamine receptor variants, OHBM, Seattle, WA, June 2013.
618. Jonathan Rosenblatt, Yoav Benjamini, Marina Bogomolov, Jason L. Stein, **Paul M. Thompson** (2013). **vGWAS revisited: A novel and powerful approach to voxelwise genome-wide association studies**, OHBM, Seattle, WA, June 2013.
619. Jessica A. Turner, Derrek P. Hibar, Jerod Rasmussen, Ole Andreassen, Unn K. Haukvik, Ingrid Agartz, Steven G. Potkin, Roel Ophoff, Hilleke Hulshoff-Pol, Neeltje E. M. van Haren, Oliver Gruber, Bernd Krämer, Stefan Erlich, Johanna Hass, Lei Wang, Kathryn Alpert, David C. Glahn, **Paul M. Thompson**, Theo G.M. van Erp for the ENIGMA-Schizophrenia Working Group (2013). **A Prospective Meta-Analysis of Subcortical Brain Volumes in Schizophrenia via the ENIGMA Consortium**, OHBM, Seattle, WA, June 2013.

620. Derrek P. Hibar, Theo G. M. van Erp, Jerod Rasmussen, Jessica A. Turner, Unn K. Haukvik, Ingrid Agartz, Oliver Gruber, Bernd Krämer, Benny Lindberg, Carl Johan Ekman, Mikael Landen, Allison Nugent, Gonzalo Laje, Francis McMahon, Scott Fears, Carrie Bearden, Nelson Freimer, David Glahn, Colm McDonald, Dara Cannon, Mary Phillips, Stephen Strakowski, Caleb Alder, Sophia Frangou, **Paul M. Thompson**, Ole A. Andreassen for the ENIGMA-Bipolar Disorder Working Group (2013). **Meta-analysis of structural brain differences in bipolar disorder: the ENIGMA-Bipolar Disorder Project**, OHBM, Seattle, WA, June 2013.
621. Benjamin S.C. Wade, Shantanu H. Joshi, Arthur W. Toga, **Paul M. Thompson**, Jay N. Giedd (2013). Effect of Supernumerary Chromosome Dosage on Corpus Callosum Morphometry, OHBM, Seattle, WA, June 2013.
622. Derrek P. Hibar, +200 co-authors including **PM Thompson**, for the ENIGMA Consortium (2013). ENIGMA2: Genome-wide scans of subcortical brain volumes in 16,125 subjects from 28 cohorts worldwide, OHBM, Seattle, WA, June 2013.
623. Neda Jahanshad^{1#}, Peter K. Kochunov^{2#}, Emma Sprooten^{3,4}, René C. Mandl⁵, Thomas E. Nichols^{6,7}, Laura Almasy⁸, John Blangero⁸, Rachel M. Brouwer⁴, Joanne E. Curran⁸, Greig I. de Zubicaray⁹, Ravi Duggirala⁸, Peter T. Fox¹⁰, L. Elliot Hong², Bennett A. Landman¹¹, Nicholas G. Martin¹², Katie L. McMahon¹³, Sarah E. Medland¹², Braxton D. Mitchell¹⁴, Rene L. Olvera¹⁰, Charles P. Peterson⁸, John M. Starr¹⁵, Jessika E. Sussmann⁴, Arthur W. Toga¹, Joanna M. Wardlaw¹⁵, Margaret J. Wright¹², Hilleke E. Hulshoff Pol⁵, Mark E. Bastin^{4,15}, Andrew M. McIntosh⁴, Ian J. Deary¹⁵, Paul M. Thompson^{1*}, and David C. Glahn (2013). **Multi-Site Genetic Analysis of 1151 Diffusion MRI Scans from the ENIGMA-DTI Working Group**, OHBM, Seattle, WA, June 2013.
624. Emily L. Dennis, Neda Jahanshad, Priya Rajagopalan, Arthur W. Toga, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2013). Young adult carriers of a common folate gene variant, *MTHFR* C677T, have altered white matter microstructure, OHBM, Seattle, WA, June 2013.
625. Christopher R. K. Ching, Derrek P. Hibar, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, **Paul M. Thompson** (2013). Genetic clustering reveals thalamic regions with common genetic determination in 707 twins, OHBM, Seattle, WA, June 2013.
626. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, **Paul M. Thompson** and the ADNI (2013). Machine Learning for Connectivity-based Alzheimer's Disease Classification, OHBM, Seattle, WA, June 2013.
627. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Brain Connectivity based on Maximum Flow in Alzheimer's Disease, OHBM, Seattle, WA, June 2013.
628. Gautam Prasad, Shantanu H. Joshi, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Refining Brain Connectivity Networks to Optimally Identify Brain Disease, OHBM, Seattle, WA, June 2013.
629. Gautam Prasad, Talia M. Nir, Arthur W. Toga, and **Paul M. Thompson** (2013). Fiber Density and Connectivity in Alzheimer's Disease, OHBM, Seattle, WA, June 2013.
630. Madelaine Daianu¹, Neda Jahanshad¹, Talia M. Nir¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, **Paul M. Thompson** and the Alzheimer's Disease Neuroimaging Initiative (2013). **Altered Brain Network Metrics in Alzheimer's Disease, Based on the Structural k-Core**, OHBM, Seattle, WA, June 2013.
631. Julio Villalon-Reina, Liang Zhan, Talia Nir, Kenia Martinez, Kristian Eschenburg, Maria Jalbrzikowski, Caroline Chow, Carrie Bearden, Paul M. Thompson. **Detailed white matter microstructure in 22q11.2 deletion syndrome revealed by the tensor distribution function (TDF)**. OHBM, Seattle, WA, June 2013.

632. Talia M. Nir^a, Liang Zhan^a, Julio Villalon^a, Neda Jahanshad^a, Arthur W. Toga^a, Alex D. Leow^b, Clifford R. Jack Jr.^c, Michael W. Weiner^b, Paul M. Thompson^a, ADNI (2013). **Tensor Distribution Function Measures Boost Power to Detect White Matter Deficits in Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
633. Liang Zhan¹, Neda Jahanshad¹, Yan Jin¹, Emily L. Dennis¹, Katie L. McMahon², Greig I. de Zubicaray⁴, Nicholas G. Martin³, Margaret J. Wright^{3, 4}, Paul M. Thompson (2013). **BRAIN NETWORK EFFICIENCY COMPARISON USING 11 DIFFERENT FIBER TRACKING ALGORITHMS**, OHBM, Seattle, WA, June 2013.
634. Yan Jin¹, Yonggang Shi¹, Liang Zhan¹, Greig I. de Zubicaray², Katie L. McMahon², Nicholas G. Martin³, Margaret J. Wright³, Paul M. Thompson¹ (2013). Automated Labeling of White Matter Tracts in HARDI: Tract Heritability in Twins, OHBM, Seattle, WA, June 2013.
635. Priya Rajagopalan¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Paul M. Thompson^{1,5} for the Alzheimer's Disease Neuroimaging Initiative* (2013). **Fat hormones, adipokines, correlate with CSF amyloid clearance and brain volumes in Alzheimer's disease**, OHBM, Seattle, WA, June 2013.
636. Daniel Peng¹, Ryan Kelley¹, Eve-Marie Quintin¹, Mira Raman¹, Paul M. Thompson⁴, Allan L. Reiss^{1,2,3} (2013). **Cognitive and Behavioral Correlates of Caudate Subregion Shape Variation in Fragile X Syndrome**, OHBM, Seattle, WA, June 2013.
637. Christina Boyle¹, Cyrus A. Raji², Kirk I. Erickson³, Oscar Lopez³, James T. Becker³, H. Michael Gach³, William T. Longstreth⁴, Leonid Teverovskiy³, Lewis Kuller⁵, Owen T. Carmichael⁶, Paul M. Thompson (2013). **Physical Activity is Correlated with Regional Brain Volumes in Normal Aging and Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
638. Nicole Chow, BS, Kristy Hwang, BS, Sona Babakhanian, BS, Amity E. Green, BS, Johanne H. Somme, MD, Paul M. Thompson, PhD, Clifford R. Jack Jr, MD, Michael Weiner, MD, Liana G. Apostolova, MD, MS (2013). Mapping Hippocampal Atrophy in Alzheimer's Disease at 3T and 1.5T MRI, OHBM, Seattle, WA, June 2013.
639. Yalin Wang, Lei Yuan, Jie Shi, Alexander Greve, Jieping Ye, Arthur W. Toga, Allan L. Reiss, and Paul M. Thompson (2013). Adapting Tensor-based Morphometry to Parametric Surfaces Improves MRI-based Disease Classification, OHBM, Seattle, WA, June 2013.
640. Jie Shi, Paul M. Thompson, Boris A. Gutman, Yalin Wang, and the Alzheimer's Disease Neuroimaging Initiative (2013). **Inverse Consistent Surface Fluid Registration Applied to Study ApoE4 Effects on Hippocampal Atrophy**, OHBM, Seattle, WA, June 2013.
641. James H. Cole^{1,2}, Christina P. Boyle³, Andrew Simmons^{4,5}, Sarah Cohen-Woods^{1,6}, Margarita Rivera^{1,7}, Peter McGuffin¹, Paul M. Thompson^{3,8}, Cynthia H. Y. Fu (2013). **Body Mass Index, but not FTO genotype, influences brain structure in Major Depressive Disorder**, OHBM, Seattle, WA, June 2013.
642. Xue Hua, Christina P. Boyle, Jaroslaw Harezlak, David Tate, Constantin Yiannoutsos, Ron Cohen, Giovanni Schifitto, Michael Taylor, Thomas Campbell, Eric Daar, Jeffry R. Alger, Elyse Singer, Bradford Navia, Paul M. Thompson and the HIV Neuroimaging Consortium (2013). **Brain metabolite disruptions linked to structural deficits in HIV patients on stable treatment**, OHBM, Seattle, WA, June 2013.
643. Priya Rajagopalan¹, Derrek P. Hibar¹, Xue Hua¹, Arthur W. Toga¹, Clifford R. Jack, Jr.³, Michael W. Weiner^{4,5}, Paul M. Thompson^{1,5} and the Alzheimer's Disease Neuroimaging Initiative (2013). **Carriers of TREM2 Alzheimer risk gene show accelerated temporal lobe atrophy and cognitive decline**, OHBM, Seattle, WA, June 2013.

644. B. Sinclair, G. Blokland, **P. Thompson**, M. Wright, G. de Zubicaray, K. McMahon (2013). Genetic and Environmental Influences on Effective Connectivity in Working Memory Networks, OHBM, Seattle, WA, June 2013.
645. Neda Jahanshad¹, Derrek P. Hibar¹, Greig I. de Zubicaray⁹, Katie L. McMahon¹³, Nicholas G. Martin¹², Margaret J. Wright¹², Paul M. Thompson (2013). **Tract-wise Genetic Correlation of MRI Intracranial Volume and DTI Anisotropy**, OHBM, Seattle, WA, June 2013.
646. Boris A. Gutman¹, Xue Hua PhD¹, Arthur W. Toga PhD¹, **Paul M. Thompson PhD^{1,8}** for the Alzheimer's Disease Neuroimaging Initiative* (2012). **Spatially regularized discriminant analysis boosts biomarker power in Alzheimer's Disease**, OHBM, Seattle, WA, June 2013.
647. Peter Kochunov, Neda Jahanshad, Charles Peterson, Bennett Landman, Thomas Nichols, **Paul M. Thompson**, Katie L. McMahon, Greig I. de Zubicaray, Nicholas G. Martin, Margaret J. Wright, David Glahn, John Blangero (2013) SOLAR-Eclipse computational tools for imaging genetic and mega-genetic analysis. OHBM, Seattle, WA, June 2013.
648. Kristian Eschenburg¹, Julio E. Villalon-Reina¹, Talia M. Nir¹, Neda Jahanshad¹, Anand A. Joshi³, Kevin Terashima², Michael Jones², Stella de Bode², Susan Y. Bookheimer², Noriko Salamon, **Paul M. Thompson** (2013). A Feasibility Study Analyzing Brain Connectivity in 5 Hemispherectomized Children, OHBM, Seattle, WA, June 2013.
649. DC Dean III, BA Jerskey, K Chen, H Protas, P Thiyyagura, A Roontiva, J O'Muircheartaigh, H Dirks, N Waskiewicz, K Lehman, AL Siniard, MN Turk, X Hua, SK Madsen, **PM Thompson**, AS Fleisher^{3,7,10}, MJ Huentelman^{7,11}, SCL Deoni, and EM Reiman (2013). Brain Alterations in Infants at Genetic Risk for Late-Onset Alzheimer's Disease, submitted to the **American Academy of Neurology (AAN)** 2013.
650. **Florence F Roussotte, Ph.D.; Neda Jahanshad, Ph.D.; Derrek P Hibar, B.S.; Elizabeth R Sowell, Ph.D.; Katie L McMahon, Ph.D.; Greig I de Zubicaray, Ph.D.; Margie J Wright, Ph.D.; Paul M Thompson, Ph.D.** (2013). A single nucleotide polymorphism associated with alcohol intake in the *RASGRF2* gene predicts similar patterns of regional brain volumes in young and elderly subjects (n = 1,316). Pacific Rim Conference on the Imaging Genetics of Aging, Turtle Bay, HI, April 2013.
651. Jessica Turner^{1, 2}, Derrek Hibar³, Jerod Rasmussen⁴, Ole Andreassen⁵, Unn Kristin Haukvik⁵, Ingrid Agartz⁵, Steven G. Potkin⁴, Roel Ophoff³, Hilleke Hulshoff Pol⁶, Neeltje van Haren⁶, Oliver Gruber⁷, Bernd Krämer⁷, Stefan Ehrlich⁸, Johanna Hass⁸, Kathryn Alpert⁹, Lei Wang⁹, Godfrey D. Pearlson^{10, 11}, David Glahn^{10, 11}, Paul Thompson¹², Theo G. van Erp⁴ (2013). A Prospective Meta-Analysis of Brain Measures in Schizophrenia via the ENIGMA Consortium. ICOSR 2013.

AAIC 2013 (10 abstracts)

652. Kelvin K Leung^{1,2}, Casper Nielsen¹, Shona Clegg¹, Ian Malone¹, Jennifer Nicholas³, David M Cash^{1,2}, Sebastien Ourselin^{1,2}, **Paul M Thompson⁴**, Cliff R Jack⁵, Michael W Weiner^{6,7,8}, Nick C Fox¹ and the Alzheimer's Disease Neuroimaging Initiative (2013). Comparison of accelerated and non-accelerated MRI in ADNI: effects on measures of brain and ventricular volumes and rates of atrophy, AAIC meeting, 2013.
653. Kelvin K Leung¹, Felix Woodward¹, Paul M Thompson², Nick C Fox¹ and the Alzheimer's Disease Neuroimaging Initiative (2013). Effects of changing from non-accelerated to accelerated MRI in brain atrophy measurement, AAIC Conference, 2013.

- 654.Sona Babakchian^{1, 2}, Johanne Somme³, Hedieh Honarpisheh⁴, Kristy Hwang^{1, 2}, Kristina Biado⁵, Spencer Tung⁵, Andrew Frew⁶, Jeffrey R. Alger¹, Jonathan Wisco⁵, Stephen P. Schettler⁵, Chris Zarow⁷, Harry V. Vinters⁵, Paul M. Thompson^{1, 2, 8}, Liana G. Apostolova^{1, 2} (2013). **7-Tesla Hippocampal Maps Predict Neuronal Counts and Amyloid Burden, AAIC 2013.**
- 655.Meredith N. Braskie, Christina P. Boyle, Priya Rajagopalan, Boris A. Gutman, Arthur W. Toga, Cyrus A. Raji, Lewis H. Kuller, James T. Becker, Oscar L. Lopez, Paul M. Thompson (2013). **Exercise, TNF α , and volume of the aging brain, AAIC 2013.**
- 656.Jasmeer P Chhatwal, MD PhD^{1,2*}, Aaron P Schultz PhD^{1,2*}, Keith Johnson MD^{1,2,3}, Tammie LS Benzinger MD PhD^{4,5}, Clifford R Jack, Jr. MD⁶, Beau M Ances MD PhD^{5,7}, Caroline A Sullivan BA^{1,2}, Stephen P Salloway MD MS⁸, John M Ringman MD MS⁹, Robert A Koeppe PhD¹⁰, Daniel S Marcus PhD^{4,5}, Paul M Thompson PhD⁹, Andrew J Saykin PsyD¹¹, Stephen Correia PhD¹², Peter R Schofield PhD¹³, Christopher C Rowe MD¹⁴, Nick C Fox MD¹⁵, Adam M Brickman PhD¹⁶, Richard Mayeux MD MS¹⁶, Eric McDade DO¹⁷, Randall Bateman MD⁷, Anne M Fagan PhD⁷, Allison M Goate DPhil^{18,19}, Chengjie Xiong PhD²⁰, Virginia D Buckles PhD⁷, John C Morris MD⁷, Reisa A Sperling MD MMsc^{1,2,21} (2013). **Disrupted functional connectivity in autosomal dominant AD demonstrates network specificity and precedes structural changes: Findings from DIAN, AAIC 2013.**
- 657.Li Shen, Paul M. Thompson, Steven G. Potkin, David J. Stone, Sungeun Kim, Kwangsik Nho, Vijay K. Ramanan, Robert C. Green, Tatiana Foroud, Lindsay Farrer, Jason H. Moore, Lars Bertram, Michael W. Weiner, Andrew J. Saykin, for the Alzheimer's Disease Neuroimaging Initiative (2013). **A Review of Published Genetic Studies using ADNI Multimodality Quantitative Phenotypes: MRI, PET Fluid Biomarkers, Cognition, and Clinical Status, AAIC 2013.**
- 658.Liana G. Apostolova, Kristy S. Hwang, Leslie M. Ramirez, Renee Sears, Eric Klein, Fuying Gao, Steve Horvath, Paul M. Thompson, Jeffrey L. Cummings, Giovanni Coppola (2013). **A gene co-expression module in peripheral blood correlates with hippocampal atrophy in elderly subjects, AAIC 2013.**
- 659.T. Blazey, C. Jack, J. Ringman, A. Brickman, M. Raichle, R. Hornbeck, A. Saykin, S. Salloway, E. McDade, M. Rosser, N. Fox, P. Thompson, S. Correia, C. Rowe, M. Weiner, R. Mayeux, B. Ghetti, R. Sperling, K. Johnson, P. Schofield, C. Masters, R. Martins, P. Aisen, R. Bateman, N. Cairns, A. Goate, D. Marcus, A. Fagan, C. Xiong, V. Buckles, K. Moulder, J.C. Morris, T.L.S. Benzinger, for the DIAN Study Group (2013). **Prevalence and Growth of Cerebral Microhemorrhages in Autosomal Alzheimer's Disease, AAIC 2013.**
- 660.Kinnunen KM¹, Ryan NS¹, Cash DM¹, Bastos-Leite A², Finnegan S³, Cardoso MJ¹, Leung KK¹, Modat M¹, Benzinger TLS⁴, Jack Jr. CR⁵, Raichle M⁴, Marcus D⁴, Ringman J⁶, **Thompson PM**⁶, Ghetti BF⁷, Salloway S⁸, Sperling R⁹, Schofield P¹⁰, Masters CL¹¹, Martins R¹², Mayeux R¹³, Weiner M¹⁴, Bateman R⁴, Fagan A⁴, Goate A⁴, Buckles V⁴, Morris JC⁴, Rossor MN¹, Ourselin S¹, Fox NC¹ for the DIAN study group (2013). Are early atrophy patterns gene-dependent in autosomal dominant familial Alzheimer's disease? AAIC 2013.
- 661.Cash DM¹, Ridgway GR¹, Modat M¹, Ryan NS¹, Kinnunen KM¹, Cardoso MJ¹, Benzinger TLS², Jack Jr. CR³, Raichle M², Marcus D², Ringman J⁴, **Thompson PM**⁴, Ghetti BF⁵, Salloway S⁶, Sperling R⁷, Schofield P⁸, Masters CL⁹, Martins R¹⁰, Mayeux R¹¹, Weiner M¹², Bateman R², Fagan A², Goate A², Buckles V², Moulder K², Morris JC², Rossor MN¹, Ourselin S¹, Fox NC¹ for the DIAN study group (2013). Dissociating volume and intensity changes in Familial Alzheimer's Disease, AAIC 2013.
- 662.Martin Tesli^{1,2(**)} and Randi Egeland^{3(**)}, Ida S nderby⁴, Unn Haukvik^{1,6}, Francesco Bettella¹, Derrek Hibar⁷, Paul M. Thompson, Lars Morten Rimol^{1,6}, Ingrid Melle^{1,2}, Ingrid Agartz^{1,5,6}, Srdjan Djurovic^{1,2,4}, and Ole A. Andreassen^{1,2} (2013). **Bipolar disorder risk gene variants and brain structural phenotypes**, Danish Psychiatric Association, Annual Congress of 2013 (Dansk Psykiatrisk Selskabs  rsm de) Nyborg, Norway,

March 9-10 2013.

663. *C Raji, MD, PhD, Los Angeles, CA; C Boyle, BS; O Lopez, MD; J T Becker, PhD; W T Longstreth, MD; H Gach, PhD; Paul Thompson (2013). Estrogen Use and Brain Structure in a Community Cohort of Elderly Women, RSNA 2013, submitted.*
664. **Paul Thompson, for the ENIGMA Consortium (2013). The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions, ACNP 2013, Dec. 2013; in the session ‘Multidimensional data integration and causality: A systems approach for unraveling the molecular architecture of mental disorders’, Hollywood, FL.**
665. *Cyrus A. Raji, MD, PhD; Christina Boyle, B.S.; Kirk Erickson, PhD; Oscar Lopez, MD; James T. Becker, PhD; William T. Longstreth, MD; H. Michael Gach, PhD; Lewis Kuller, MD, DrPH; Paul Thompson, PhD (2013). ACNP 2013, Dec. 2013.*

SFN 2013 (13 abstracts)

666. *Emily L. Dennis¹, Meredith N. Braskie¹, Nicholus M. Warstadt¹, Neda Jahanshad¹, Omid Kohanim¹, Talia Nir¹, Katie L. McMahon², Greig I. de Zubicaray³, Grant Montgomery⁴, Nicholas G. Martin⁴, Arthur W. Toga⁵, Margaret J. Wright^{3,4}, Paul M. Thompson (2013). Obesity Gene *NEGR1* Associates with White Matter Integrity Differently in Young and Old Adults, Society for Neuroscience (SFN) 2013, San Diego.*
667. **Florence F. Roussotte, Arthur W. Toga, Clifford R. Jack Jr, Michael W. Weiner, Paul M. Thompson for the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (2013). A single-nucleotide polymorphism (SNP) in the dopamine transporter gene, *DAT1*, is associated with increased risk for Alzheimer’s disease and cognitive impairment in the elderly. Society for Neuroscience (SFN) 2013, San Diego.**
668. *Talia M Nir¹, Julio E Villalon-Reina¹, Liang Zhan¹, Gautam Prasad¹, Shantanu H Joshi¹, Neda Jahanshad¹, Arthur W. Toga¹, Alex D. Leow², Paul M. Thompson (2013). Tensor distribution function measures along tractography-based maximum density paths increase Alzheimer’s disease classification accuracy, Society for Neuroscience (SFN) 2013, San Diego.*
669. *Cassandra D. Leonardo¹, Talia M. Nir¹, Neda Jahanshad¹, Assawin Gongvatana², Bradford Navia^{3,4}, Ronald Cohen, Paul Thompson (2013). Brain network connectivity disruptions in HIV/AIDS, Society for Neuroscience (SFN) 2013, San Diego.*
670. *Liang Zhan¹, Yalin Wang², Talia M. Nir¹, Neda Jahanshad¹, Yan Jin¹, Arthur W. Toga¹, Paul M. Thompson¹ for the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (2013). Highways and Traffic: Modeling Anatomical Network Breakdown in Alzheimer’s disease, Society for Neuroscience (SFN) 2013, San Diego.*
671. *Neda Jahanshad¹, Derrek P. Hibar¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Margaret J. Wright⁴, and Paul M. Thompson¹ (2013). Common genetic influences on fiber integrity and regional brain volumes discovered by genetic correlation of MRI and DTI, Society for Neuroscience (SFN) 2013, San Diego.*
672. *Priya Rajagopalan¹, Arthur W. Toga¹, Clifford R. Jack Jr², Michael W. Weiner^{3, 4}, Paul M. Thompson (2013). Plasma adipokines correlate with brain volumes in the elderly: An Alzheimer’s Disease Neuroimaging Initiative (ADNI) study, Society for Neuroscience (SFN) 2013, San Diego.*
673. *G. K. Reynolds¹, T. M. Nir¹, A. W. Toga¹, Clifford R. Jack Jr², Michael W. Weiner³, P. M. Thompson¹, for the Alzheimer’s Disease Neuroimaging Initiative (2013). How does Alzheimer’s Disease disrupt local white matter*

microstructure in the brain? **Society for Neuroscience (SFN) 2013, San Diego.**

674. Nicholas M. Warstadt¹, Emily L. Dennis¹, Neda Jahanshad¹, Talia M. Nir¹, Derrek P. Hibar¹, Arthur W. Toga⁸, Katie L. McMahon², Greig I. de Zubicaray³, Grant Montgomery⁴, Nicholas G. Martin⁴, Margie J. Wright^{3,4}, Paul M. Thompson (2013). Cholesterol-Associated Gene *CETP* Associations with White Matter Integrity in Young and Older Cohorts, **Society for Neuroscience (SFN) 2013, San Diego.**

675. Meredith N Braskie¹, Omid Kohannim¹, Neda Jahanshad^{1,2}, Arthur W Toga¹, Grant W Montgomery⁵, Katie L McMahon³, Greig I de Zubicaray⁴, Nicholas G Martin⁵, Margaret J Wright⁵, Paul M Thompson (2013). Mitochondrial genetic variants and white matter integrity in young adults, **Society for Neuroscience (SFN) 2013, San Diego.**

676. Madelaine Daianu¹, Emily Dennis¹, Neda Jahanshad¹, Talia M. Nir¹, Arthur W. Toga¹, Clifford R. Jack, Jr.², Michael W. Weiner^{3,4}, Paul M. Thompson^{1*} for the Alzheimer's Disease Neuroimaging Initiative (2013). **Sex Differences in Brain Connectivity in Normal Aging and Alzheimer's Disease, Society for Neuroscience (SFN) 2013, San Diego.**

677. Madsen SK, Priya Rajagopalan M.P.H.^a, Shantanu H. Joshi Ph.D.^a, Arthur W. Toga Ph.D.^a, Thompson PM (2013). Elevated homocysteine is associated with thinner cortical gray matter in 803 elderly subjects, **Society for Neuroscience (SFN) 2013, San Diego.**

678. Yan Jin^{a,b}, Yonggang Shi^b, Liang Zhan^{a,b}, Arthur W. Toga^{a,b}, Greig I. de Zubicaray^c, Katie L. McMahon^c, Nicholas G. Martin^d, Margaret J. Wright^d, and Paul M. Thompson (2013). **Mapping genetic influences on white matter fiber tracts reveals 3D profile of heritability, Society for Neuroscience (SFN) 2013, San Diego.**

679. G. Prasad, I. Aganj, and P.M. Thompson. Synthesizing connectivity networks to improve classification of Alzheimer's disease. In Proceedings of the Society for Neuroscience, San Diego, CA, 2013.

CTAD 2013

680. Sophie Sokolow, PhD^{1,2}, Kristy S Hwang^{3,4}, BS, Edmond Teng^{3,5}, MD, PhD, Paul M. Thompson^{3,4,6}, Clifford R. Jack, Jr.⁷, Leslie M. Shaw⁸, John Q. Trojanowski⁸, Holly D. Soares⁹, Michael W. Weiner^{10,11} and Liana G. Apostolova, MD (2013). **Plasma biomarkers associated with the apolipoprotein E (APOE) genotype and Amyloid-beta imaging, CTAD 2013.**

CROI 2014

681. Prasitsuebsai W¹, Jahanshad N², Valcour V³, Puthanakit T^{1,4}, Linda Aurlpibul⁵, Sukalaya Lerdlum⁶, Pannee Visrutaratna⁷, Ananworanich J^{1, 8, 9}, Thompson P³ on behalf of the PREDICT Study Group (2014). **Brain Morphometry and Diffusion Tensor Imaging in HIV-exposed compared to unexposed Thai Children, submitted to CROI, Boston, MA, USA, 2014.**

682. Cassandra D. Leonardo¹, Talia M. Nir¹, Neda Jahanshad^{1,2}, Assawin Gongvatana^{2,5, 3}, Bradford Navia^{4,5}, Ronald Cohen^{3,6}, and Paul M. Thompson^{1,2} (2014). Disruptions in brain network connectivity associated with HIV/AIDS, **submitted to CROI, Boston, MA, USA, 2014.**

SOBP 2014

683. Matthew D. Sacchet^{1,2}, Gautam Prasad^{2,3}, Lara C. Foland-Ross², Shantanu H. Joshi⁴, J. Paul Hamilton⁵, Paul M. Thompson³, Ian H. Gotlib (2014). Automated Characterization of White Matter Connectivity in Major Depressive Disorder, **SOBP 2014.**

684. Matthew D. Sacchet^{1,2}, Gautam Prasad^{2,3}, Lara C. Foland-Ross², **Paul M. Thompson**³, Ian H. Gotlib (2014). Support Vector Machines Can Identify Brain Network Anomalies in Major Depression, **SOBP 2014**.

685. Glahn D, Frangou S, **Thompson PM**, Garavan H (2014). Large-Scale Psychiatric Imaging Studies: Lesson Learned and Future Directions, **SOBP 2014**.

686. Lara C. Foland-Ross,^{1,2*} Matthew D. Sacchet,^{1,3} Gautam Prasad,¹ Brooke Gilbert,³ Paul Thompson, and^{1,2} Ian H. Gotlib (2014). **Neurodevelopmental Trajectories in Youth at Risk for Major Depression**, SOBP 2014.

ISMRM 2014

687. Iman Aganj, Gautam Prasad, Priti Srinivasan, Anastasia Yendiki, **Paul Thompson**, Bruce Fischl (2014). Structural Brain Network Augmentation via Kirchhoff's Laws, ISMRM 2014.

688. L. Zhan¹, A. Carpenter², Y. Duchin³, N. Harel³, G. Sapiro⁴, P.M. Thompson¹, C. Lenglet (2014). **Brain network efficiency deficits in multiple sclerosis: A pilot network analysis using 7-Tesla diffusion MRI**, ISMRM 2014.

689. **Anand A. Joshi, Syed Ashrafulla, David W. Shattuck, Katie L McMahon, Narelle K Hansell, Nicholas G Martin, Margaret J Wright, Paul M Thompson, Hanna Damasio and Richard M. Leahy (2014)**. Automated Brain Shape Analysis using the Anisotropic Global Point Signature, ISMRM 2014.

690. K.-K. Shen¹, S. Rose¹, J. Fripp¹, K. L. McMahon², G. I. de Zubicaray³, N. G. Martin⁴, P. M. Thompson⁵, M. J. Wright⁴, O. Salvado (2014). **HERITABILITY OF WHITE MATTER (WM) FIBRES BASED ON FIBRE ORIENTATION DISTRIBUTION (FOD) MEASUREMENTS ON HARDI DATA**, ISMRM 2014.

HAI 2014 (Human Amyloid Imaging Conference 2014)

691. Jasmeer P Chhatwal, MD PhD, Aaron P Schultz PhD, Keith Johnson MD, Tammie LS Benzinger MD PhD, Clifford Jack, Jr. MD, Beau M Ances MD PhD, Caroline A Sullivan BA, Stephen P Salloway MD MS, John M Ringman MD MS, Robert A Koeppe PhD, Daniel S Marcus PhD, **Paul Thompson PhD**, Andrew J Saykin PsyD, Stephen Correia PhD, Peter R Schofield PhD, Christopher C Rowe MD, Nick C Fox MD, Adam M Brickman PhD, Richard Mayeux MD MS, Eric McDade DO, Randall Bateman MD, Anne M Fagan PhD, Allison M Goate DPhil, Chengjie Xiong PhD, Virginia D Buckles PhD, John C Morris MD, Reisa A Sperling MD MMsc (2014). **Differential Temporal Patterns of Amyloid- β and Functional Imaging Markers Across Mutation Types in Autosomal Dominant Alzheimer's Disease: Findings from the DIAN Study**, HAI 2014.

IIGC (Imaging Genetics Conference, 2014)

692. Mary Ellen Koran, Bo Li, Neda Jahanshad, Tricia A. Thornton-Wells, David C. Glahn, **Paul M. Thompson**, John Blangero, Thomas E. Nichols, Peter Kochunov, Bennett A. Landman (2014). Neuroimaging Genetics Study Design: A Comparison of the OpenMX and SOLAR Software Packages for Estimating Heritability of Neuroimaging Traits, IIGC Conference, Irvine, CA, Jan. 2014.

693. Neda Jahanshad^{1,2#}, Peter Kochunov^{3#}, Thomas E. Nichols^{4,5}, Emma Sprooten⁶, René C. Mandl⁷, Laura Almasy⁸, Rachel M. Brouwer⁷, Joanne E. Curran⁸, Greig I. de Zubicaray¹⁰, Rali Dimitrova¹¹, Peter T. Fox¹², L. Elliot Hong³, Bennett A. Landman¹³, Hervé Lemaitre¹⁴, Nicholas G. Martin¹⁶, Katie L. McMahon¹⁷, Braxton D. Mitchell¹⁸, Rene L. Olvera¹⁹, Charles P. Peterson⁸, Jessika E. Sussmann²¹, Arthur W. Toga¹, Joanna M. Wardlaw¹³, Margaret J. Wright¹⁴, Susan N. Wright³, Mark E. Bastin^{13,18}, Andrew M. McIntosh²¹, René S. Kahn⁷, Ian J. Deary⁹, Hilleke E. Hulshoff Pol⁷, Douglas Williamson¹⁹, John Blangero⁸, Dennis van 't Ent²², David C. Glahn⁶, **Paul M.**

Thompson (2013). Joint modeling of multi-site white matter heritability estimates through meta and mega analyses, IIGC Conference, Irvine, CA, Jan. 2014.

OHBM 2014

694. Nicholas M. Warstadt¹, Emily L. Dennis¹, Neda Jahanshad¹, Talia M. Nir¹, Cassandra D. Leonardo¹, Clifford R. Jack, Jr.³, Matt A. Bernstein³, Michael W. Weiner^{4,5}, and Paul M. Thompson^{1,6†} for the Alzheimer's Disease Neuroimaging Initiative (ADNI)* **Geriatric Depression and White Matter Integrity in Alzheimer's Disease Patients. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
695. Christina Boyle¹, Cyrus A. Raji², Kirk I. Erickson³, Oscar Lopez³, James T. Becker³, H. Michael Gach³, William T. Longstreth⁴, Leonid Teverovskiy³, Lewis Kuller⁵, Owen T. Carmichael⁶, Paul M. Thompson¹ **Estrogen Use, Brain Volume and Cognitive Function in a Cohort of Elderly Women. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
696. Cassandra D. Leonardo^a, Talia M. Nir^a, Neda Jahanshad^a, Arthur W. Toga^a, Clifford R. Jack^b, Michael W. Weiner^c, Paul M. Thompson^{a,d} and the Alzheimer's Disease Neuroimaging Initiative (ADNI). **Longitudinal Diffusion Tensor Imaging reveals association between changes in fiber integrity and cognitive measures. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
697. Boris A. Gutman, Neda Jahanshad, Derrek Hibar, Cassandra Leonardo, Julio Villalon, Kristian Eschenberg, Talia Nir, Paul M Thompson. **Continuous Connectomics: An Exploratory Framework for Connectivity Analysis in Brain Imaging. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
698. Neda Jahanshad¹, Katie L. McMahon², Greig I. de Zubicaray³, Nicholas G. Martin⁴, Margaret J. Wright⁴, Alex W. Hewitt⁵, David A. Mackey^{5,6,7}, Paul M. Thompson^{1,8} **Widespread white matter associations with optic disc parameters. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
699. K. Eschenberg, J. Villalon-Reina, J. Ross, P. Thompson, T. Simon. **Integrity of the Structural Connectome in Turner Syndrome. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
700. Wade B. ¹, Joshi S.H.², Pirnia T.², Leaver A.M. ², Woods R.P. ^{2,3}, Thompson P.M. ¹, Espinoza R. ³, Narr K.L. ^{2,3} **Effect of Electroconvulsive Therapy on Striatal Volumes in Major Depressive Disorder. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
701. Daniel A. Rinker, Derrek P. Hibar, Neda Jahanshad, Katie L McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G Martin, Margaret J Wright, the ADNI, Paul M. Thompson. **Multiple sclerosis risk gene associations with white matter integrity at 4 Tesla. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
702. Emily L. Dennis¹, Derrek P. Hibar¹, Neda Jahanshad¹, Arthur W. Toga¹, Katie L. McMahon², Greig I. de Zubicaray³, Grant Montgomery⁴, Nicholas G. Martin⁴, Margaret J. Wright^{3,4}, Paul M. Thompson¹ **Gene-based Test of MACROD2 Reveals Associations with White Matter Integrity in Healthy Young Adults. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
703. Yan Jin^a, Yonggang Shi^b, Liang Zhan^{a,b}, Talia M. Nir^{a,b}, Arthur W. Toga^b, and Paul M. Thompson. **Automated Multi-atlas Labeling of the Fornix Applied to Track Alzheimer's Disease. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
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716. Liang Zhan, Bryon A. Mueller, Christophe Lenglet, Essa Yacoub, Guillermo Sapiro, Noam Harel, Kelvin O. Lim, Paul M. Thompson. **Brain Network denoising using Principal Component Analysis. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
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725. Matthew D Sacchet¹, Gautam Prasad^{1,2}, Lara C Foland-Ross¹, Paul M Thompson², Ian H Gotlib¹ **Characterizing abnormal brain networks in Major Depressive Disorder using Machine Learning. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**

726. Matthew D Sacchet¹, Gautam Prasad^{1,2}, Lara C Foland-Ross¹, Shantanu H Joshi³, J Paul Hamilton⁴, Paul M Thompson², Ian H Gotlib¹ **Automated Identification of Abnormal Fiber Tracts in Major Depressive Disorder. OHBM 2014, Hamburg, Germany, June 8 - 12, 2014.**
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733. Gautam Prasad^{1,2}, Josh Burkart⁴, Matthew D. Sacchet^{1,3}, Lara C. Foland-Ross¹, Paul M. Thompson², and Ian H. Gotlib^{1,3} **Understanding Major Depression Using Dynamic Models based on N-Body Simulations.**
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762. Joshua Faskowitz, Christopher Ching, Jair C. Soares, Paul M. Thompson, Neda Jahanshad (2015). **Brain White Matter Integrity in Bipolar Disorder Subtypes assessed with Diffusion Tensor Imaging**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
763. Talia M. Nir¹, Jean-Paul Fouche², Victor G. Valcour³, Cecilia M. Shikuma⁴, Kalpana J. Kallianpur⁴, Jintanat Ananworanich⁵, Jaroslaw Harezlak⁶, Giovanni Schifitto⁷, Neda Jahanshad¹, Bradford A. Navia⁸, Dan J. Stein², Ronald A. Cohen (2015). CD4 counts predict brain white matter integrity in people living with HIV: A meta-analysis by the ENIGMA HIV working group, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
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769. Benjamin S.C. Wade¹, Victor G. Valcour², Edgar Busovaca³, Pardis Esmaeili-Firidouni³, Shantanu H. Joshi⁴, Yalin Wang⁵, Paul M. Thompson (2015). **Mapping Abnormal Subcortical Brain Morphometry in an Elderly HIV+ Cohort**, CNS (Cognitive Neuroscience Society) 2015, March 28-31, 2015, San Francisco, CA, USA.
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771. Adam Mezher¹, Madelaine Daianu¹, Neda Jahanshad¹, Talia M. Nir¹, Clifford R. Jack, Jr.², Michael W. Weiner³, Matthew Bernstein², Paul M. Thompson (2015). **Lateralization of the executive function in the asymmetric Alzheimer's disease connectome**, March 28-31, 2015, San Francisco, CA, USA.
772. Sarah K. Madsen¹, Greg Ver Steeg², Adam Mezher¹, Neda Neda Jahanshad¹, Talia N. Nir¹, Xue Hua¹, Boris A. Gutman¹, Aram Galstyan², Paul M. Thompson (2015). **Predicting Cognitive Decline in the Elderly From 500+ Heterogeneous Biomarkers Using Machine Learning**, March 28-31, 2015, San Francisco, CA, USA.

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774. **Lianne Schmaal¹**, Dick J. Veltman¹, Theo G.M. van Erp², Philipp G. Sämann³, Thomas Frodl^{4,5}, Neda Jahanshad⁶, Elizabeth Loehrer⁷, Henning Tiemeier^{7,8}, Albert Hofman⁷, Wiro J. Niessen^{9,10}, Meike W. Vernooij^{7,9}, M. Arfan Ikram^{7,9,11}, Katharina Wittfeld¹², Hans J. Grabe^{12,13,14}, Andrea Block¹³, Katrin Hegenscheid¹⁵, Henry Völzke¹⁶, David Hoehn³, Michael Czisch³, Jim Lagopoulos¹⁷, Sean N. Hatton¹⁷, Ian B. Hickie¹⁷, Roberto Goya-Maldonado¹⁸, Bernd Krämer¹⁸, Oliver Gruber¹⁸, Baptiste Couvy-Duchesne^{19,20,21}, Miguel E. Rentería¹⁹, Lachlan T. Strike¹⁹, Natalie T. Mills^{19,22}, Greig I. de Zubicaray²⁰, Katie L. McMahon²¹, Sarah E. Medland¹⁹, Nicholas G. Martin¹⁹, Nathan A. Gillespie²³, Margaret J. Wright¹⁹, Geoffrey B. Hall^{24,25}, Glenda M. MacQueen²⁶, Eva Maria

- Frey⁴, Angela Carballedo²⁷, Laura S. van Velzen¹, Marie Jose van Tol²⁸, Nic J. van der Wee^{29,30}, Ilya M. Veer³¹, Henrik Walter³¹, Knut Schnell³², Elisabeth Schramm^{33,34}, Claus Normann³³, Dieter Schoepf³⁵, Carsten Konrad³⁶, Bartosz Zurowski³⁷, Thomas Nickson³⁸, Andrew M. McIntosh^{38,39}, Martina Pappmeyer^{38,40}, Heather C. Whalley³⁸, Jessika E. Sussmann³⁸, Beata R. Godlewska⁴¹, Philip J. Cowen⁴¹, Felix H. Fischer^{42,43}, Matthias Rose^{42,44}, Brenda W.J.H. Penninx¹, Paul M. Thompson⁶, and Derrek P. Hibar⁶ for the ENIGMA-Major Depressive Disorder Working Group (2015). **Subcortical Brain Alterations in Major Depressive Disorder: findings from the ENIGMA Major Depressive Disorder Working Group, SOBP 2015, Toronto. Authors abbreviated for submission, to:** Lianne Schmaal¹, Dick J. Veltman¹, Theo G. M. van Erp², Brenda W. J. H. Penninx¹, Paul M. Thompson³, Derrek P. Hibar³, for the ENIGMA Major Depressive Disorder Working Group.
775. Theo G. M. van Erp^{1*}, Derrek P. Hibar^{2*}, Jerod M. Rasmussen¹, David C. Glahn^{3,4}, Godfrey D. Pearlson^{3,4}, Ole A. Andreassen⁵, Ingrid Agartz^{5,6,35}, Lars T. Westlye^{5,7}, Unn K. Haukvik⁵, Anders M. Dale^{8,9}, Ingrid Melle⁵, Cecilie B. Hartberg^{5,6}, Oliver Gruber¹⁰, Bernd Kraemer¹⁰, David Zilles^{10,11}, Gary Donohoe^{12,13}, Sinead Kelly¹³, Colm McDonald¹⁴, Derek W. Morris^{12,13}, Dara M. Cannon¹⁴, Aiden Corvin¹³, Marise W. J. Machielsen¹⁵, Laura Koenders¹⁵, Lieuwe de Haan¹⁵, Dick J. Veltman¹⁶, Theodore D. Satterthwaite¹⁷, Daniel H. Wolf¹⁷, Ruben C. Gur¹⁷, Raquel E. Gur¹⁷, Steven G. Potkin¹, Daniel H. Mathalon^{18,19}, Bryon A. Mueller²⁰, Adrian Preda¹, Fabio Macciardi¹, Stefan Ehrlich^{21,22,23}, Esther Walton²¹, Johanna Hass²¹, Vince D. Calhoun^{24,25}, Henry J. Bockholt^{24,26,27}, Scott R. Sponheim²⁸, Jody M. Shoemaker²⁴, Neeltje E. M. van Haren²⁹, Hilleke E. Hulshoff Pol²⁹, Roel A. Ophoff^{29,30}, René S. Kahn²⁹, Roberto Roiz-Santiañez^{31,32}, Benedicto Crespo-Facorro^{31,32}, Lei Wang^{33,34}, Kathryn I. Alpert³³, Erik G. Jönsson^{5,35}, Rali Dimitrova³⁶, Catherine Bois³⁶, Heather C. Whalley³⁶, Andrew M. McIntosh³⁶, Stephen M. Lawrie³⁶, Ryota Hashimoto³⁷, Paul M. Thompson^{2*}, and Jessica Turner^{24,38*} for the ENIGMA – Schizophrenia Working Group³⁹ (2015). **Brain Volume Abnormalities Based on the Comparison of 2,028 Cases and 2,540 Controls by the ENIGMA Schizophrenia Working Group, SOBP 2015, Toronto. Authors abbreviated for submission, to:** Theo G. M. van Erp¹, Derrek P. Hibar², Steven G. Potkin¹, Paul M. Thompson², Jessica A. Turner^{3,4}, ENIGMA - Schizophrenia Working Group.
776. Rachel M. Brouwer¹, David C. Glahn², Derrek P. Hibar³, Xue Hua³, Neda Jahanshad³, Carol E. Franz⁴, Karen Mather⁵, Wei Wen⁵, Dorret I. Boomsma⁶, John H. Gilmore⁷, Nitin Gogtay⁸, René S. Kahn¹, William S. Kremen⁴, Perminder S. Sachdev⁵, Margie J. Wright⁹, Paul M. Thompson^{3#}, Hilleke E. Hulshoff Pol[#] (2015). **Genetic influences on brain plasticity: first results of the ENIGMA Plasticity Working Group, SOBP 2015, Toronto.**
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780. Sarah K. Madsen, Greg Ver Steeg, Adam Mezher, Neda Jahanshad, Talia M. Nir, Xue Hua, Boris A. Gutman, Aram Galstyan, Paul M. Thompson (2015). Predicting Cognitive Decline with Information-Theoretic Clustering of Brain MRI and Blood Tests, **SOBP 2015, Toronto.**
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AD/PD Conference 2015

783.Derrek P. Hibar, Nathan Pankratz, Tatiana Foroud, Paul M. Thompson and the ENIGMA Consortium (2015). **Boosting power to detect Parkinson's disease genetic risk variants by conditioning on genetic determinants of brain structure**, International Conference on Alzheimer's Disease and Parkinson's disease (AD/PD 2015), Nice, France, 2015.

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- 835.Zhu D, Zhan L, Faskowitz J, Daianu M, Jahanshad N, Zubicaray G, McMahon K, Martin N, Wright M, Thompson PM (2015). Genetic Analysis of Brain Structural Connectivity via DICCCOL Models in 522 Twins, OHBM 2015.
- 836.Zhu D, Lin B, Faskowitz J, Ye J, Thompson PM (2015). Embedded Sparse Learning of fMRI Data via Group-wise Dictionary Optimization, OHBM 2015.

AAIC 2015 (Alzheimer's Disease Imaging Conference)

- 837.Xiaohui Yao, Jingwen Yan, Sungeun Kim, Kwangsik Nho, Shannon L. Risacher, Tatiana M. Foroud, **Paul M. Thompson**, Steven G. Potkin, Nadeem Sarwar, Robert C. Green, Arthur W. Toga, Michael W. Weiner, Andrew J. Saykin, Li Shen, for the Alzheimer's Disease Neuroimaging Initiative (2015). **Genetic Findings using ADNI Multimodal Quantitative Phenotypes: A 2014 Update, submitted to AAIC Conference, 2015.**
- 838.Julia A Scott, PhD¹, Pauline Maillard, PhD¹, Meredith N Braskie, PhD², Duygu Tosun, PhD³, **Paul Thompson, PhD²**, Michael W Weiner, MD³, Charles DeCarli, MD¹ and Owen T Carmichael, PhD⁴ (2015). **Cerebral Amyloid Is Associated with Poorer Integrity of White Matter Lesions, Penumbra, and Healthy White Matter in the Elderly, submitted to AAIC Conference, 2015.**

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- 839.*Justin A. Galvis, Julio E. Villalon, Gautam Prasad, Conor Corbin, Talia M. Nir, Leila Kushan-Wells, Carrie E. Bearden, Paul M. Thompson (2015). White Matter Microstructure Differences in Adolescents with Autism, Psychosis and 22q11.2 Deletion Syndrome, SFN Conference 2015.*
- 840.Madelaine Daianu, Zvart Abaryan, Russell E. Jacobs, Terrence Town, Paul M. Thompson. Axonal Diameter Estimated with 7-Tesla Hybrid Diffusion Imaging in Transgenic Alzheimer Rats. SfN 2015, *submitted.*
- 841.Talia M Nir, Julio E Villalon-Reina, Boris Gutman, Liang Zhan, Neda Jahanshad, Clifford R Jack Jr, Michael Weiner, Paul M. Thompson, **Alzheimer's disease classification with novel microstructural metrics from diffusion-weighted MRI**, SFN 2015, *submitted.*
- 842.Daniel A. Rinker, Gautam Prasad, Miguel Renteria, Neda Jahanshad, Derrek P. Hibar, Katie L. McMahon, Greig I. de Zubicaray, Grant Montgomery, Nicholas G. Martin, Margaret J. Wright, Paul M. Thompson. Relating white matter "potholes" to polygenic risk for Multiple Sclerosis. SfN 2015
- 843.Joshua Faskowitz, Derrek P. Hibar, Paul M. Thompson, Neda Jahanshad. Test-retest reliability of cortical parcellations in 165 healthy adults for multi-site analyses in the ENIGMA consortium. SFN 2015, *submitted.*
- 844.Daniel Schonfeld, Talia M. Nir, Neda Jahanshad, Christopher R.K. Ching, Xue Hua, Assawin Gongvatana, Bradford Navia, Ronald A. Cohen, Paul M. Thompson. Denoising of Diffusion MRI Boosts Power to detect Hepatitis C effects on the Brain in HIV+ adults, SFN 2015, *submitted.*
- 845.Zvart Abaryan, Fiona Wilkes, Christopher RK Ching, Boris A Gutman, Sarah K Madsen, Mark Walterfang, Julie Stout, Andrew Churchyard, Phyllis Chua, Dennis Velakoulis, Gary Egan, Jeffrey CL Looi, Paul M Thompson, Nellie Georgiou-Karistianis. Striatal shape differs before and after symptom onset in Huntington's disease and relates to clinical severity: the IMAGE HD study. SFN 2015, *submitted.*

846. Christopher RK Ching, Boris A Gutman, Talia M. Nir, Daniel Schonfeld, Neda Jahanshad, Xue Hua, Assawin Gongvatana, Bradford Navia, Ronald A. Cohen, Paul M. Thompson. High-resolution shape analysis in HIV+ adults reveals associations between neurocognitive performance and subcortical morphometry. SFN 2015, submitted.
847. Artemis Zavaliangos-Petropulu, Neda Jahanshad, Cliff Jack, Michael Weiner, Matthew A. Bernstein, Paul M. Thompson. Comparison of Diffusion Weighted Imaging Protocols for Investigating Alzheimer's Disease in ADNI. SFN 2015, submitted.
848. Brandalyn C. Riedel, Dajiang Zhu, Neda Jahanshad, Joshua Faskowitz, Roberta Diaz Brinton, and Paul M. Thompson (2015). Differential white matter connectivity abnormalities in elderly carriers of the Alzheimer's risk allele APOE- ϵ 4 by cognitive status. *Neuroscience 2015 Abstracts, Chicago, IL: Society for Neuroscience, 2015*.
849. Vatche Baboyan, Adam Mezher, Emily L. Dennis, Madelaine Daianu, Yan Jin, Talin Babikian, Christopher Giza, Robert F. Asarnow, Paul M. Thompson. Disruptions to White Matter Microstructure of the Default Mode Network in Pediatric Traumatic Brain Injury. SFN 2015, submitted.
850. Christopher D Whelan, Christopher RK Ching, Boris A Gutman, Zvart Abaryan, Saud Alhusaini, Andrew Fagan, Colin P Doherty, Norman Delanty, Gianpiero L. Cavalleri and Paul M Thompson. Subcortical shape modeling provides sensitive markers of structural abnormality in non-lesional temporal lobe epilepsy. SFN 2015, submitted.
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852. Arvin Saremi¹, Wasana Prasitsuebsai MD², Neda Jahanshad PhD¹, Talia M. Nir BS¹, Katherine Clifford BA⁶, Linda Aurrpibul, MD³, Paul M. Thompson PhD^{1,9}, Kanchana Pruksakaew MSc², Sukalaya Lerdlum MD⁴, Pannee Visrutaratna MD⁵, Stephen J. Kerr PhD², Thanyawee Puthanakit MD^{2,4}, Robert Paul PhD⁷, Jintanat Ananworanich MD PhD^{2,8,10} Victor G. Valcour MD PhD^{6,10} on behalf of the SEARCH 012 and the PREDICT Study Groups (2015). White Matter Abnormalities in HIV+ Children and Associations with Processing Speed, SFN submitted.
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858.E. L. DENNIS¹, M. ELLIS^{2,4}, S. MARION⁴, Y. JIN¹, C. KERNAN², T. BABIKIAN², R. MINK⁵, C. BABBITT⁶, J. JOHNSON⁷, C. GIZA⁸, R. ASARNOW^{2,3}, P. THOMPSON¹. Callosal function in pediatric traumatic brain injury linked to disrupted white matter integrity. Society for Neuroscience 2015, submitted.

ASHG 2015 (American Society for Human Genetics)

859.Michelle K Lupton¹, Lachlan Strike^{1,2,3}, Wei Wen⁴, Karen A Mather⁴, Nicola J Armstrong⁵, Anbupalam Thalamuthu⁴, Katie L McMahon², Greig I de Zubicaray³, Amelia A Assareh⁴, Andrew Simmons⁶, Petroula Proitsi⁶, John F Powell⁶, Grant W Montgomery¹, Derrek P Hibar⁷, Eric Westman⁸, Magda Tsolaki⁹, Iwona Kloszewska¹⁰, Hilikka Soininen¹¹, Patrizia Mecocci¹²; Bruno Velas¹³, Simon Lovestone^{6,14}, the Alzheimer's Disease Neuroimaging Initiative, Henry Brodaty⁴, David Ames¹⁵, Julian N Trollor⁴, Nicholas G Martin¹, Paul M Thompson⁷, Perminder S Sachdev⁴, Margaret J Wright¹. **The use of genetic risk factors to assess prodromal brain changes in Alzheimer's disease**, ASHG 2015.

Behavioral Genetics Association (BGA) 2015

860.Baptiste Couvy-Duchesne; Lachlan Strike; Paul Thompson; Katie McMahon; Greig de Zubicaray; Nick G. Martin; Ian Hickie; Margaret Wright; **Non-linear association of anxiety-depression (SPHERE) score with cortical surface and surface area**, BGA 2015, June 2015, San Diego, CA.

861.Dennis EL, Talin Babikian, Jeffry Alger, Yan Jin, Jeffrey Johnson, Christopher Babbitt, Richard Mink, Christopher Giza, **Paul M. Thompson**, Robert Asarnow (2015). *Integrated DWI and MRS Reveal White Matter Dysfunction in Pediatric TBI*, International Neurotrauma Society Conference (INTS), 2016, Cape Town, South Africa.

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862.**J.C.L. Looi^{1,2}, D. Velakoulis², P.M. Thompson³, M. Walterfang², B.D. Power⁴, R. Molina-Ruiz⁵, A.F. Santillo⁶, N. Georgiou-Karistianis⁷, C. Nilsson⁸, D. van Westen⁹, L.O. Wahlund (2016). AUSSIE: THE AUSTRALIAN US SCANDINAVIAN SPANISH IMAGING EXCHANGE FOR NEUROPSYCHIATRIC NEUROIMAGING**, Royal Australia and New Zealand Congress on Psychiatry, Hong Kong, May 2016.

863.**J.C.L. Looi^{1,2}, D. Velakoulis², P.M. Thompson³, M. Walterfang², B.D. Power⁴, R. Molina-Ruiz⁵, A. Santillo⁶, N. Georgiou-Karistianis⁷, C. Nilsson⁸, D. van Westen⁹, L.O. Wahlund (2016). THE SHAPE AND FORM OF NEUROPSYCHIATRIC DISEASE IN THE BRAIN**, Royal Australia and New Zealand Congress on Psychiatry, Hong Kong, May 2016.

864.**PM Thompson (2016). ENIGMA-ND: THE ENIGMA NEUROIMAGING GENETICS PROJECT FOR NEUROPSYCHIATRIC DISEASE AND AUSSIE**, Royal Australia and New Zealand Congress on Psychiatry, Hong Kong, May 2016.

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866.Christopher R. K. Ching, Boris A Gutman, Artemis Zavaliangos-Petropulu, Daqiang Sun, Rachel K. Jonas, Leila Kushan, Paul M. Thompson, Carrie E. Bearden (2016). **22q11.2 Deletion Syndrome: Novel subcortical**

shape analysis reveals subtle variations associated with IQ and psychiatric diagnosis, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.

867. Dan Rinker, Neda Jahanshad, Derrek P. Hibar, The ADNI, Paul M. Thompson (2016). **Catechol-O-Methyltransferase (COMT) variant is associated with performance on neuropsychological test of executive processing speed in 379 participants**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.
868. Artemis Zavaliangos-Petropulu, Neda Jahanshad, Talia M. Nir, Clifford R Jack Jr., Michael W. Weiner, Matt A. Bernstein, Paul M. Thompson (2016). **Annual Changes in DTI Metrics Correlate with MMSE Score Decline in the Elderly**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.
869. Faisal M. Rashid, Emily L. Dennis, Monica U. Ellis, Sarah D. Marion, Yan Jin, Talin Babikian, Claudia Kernan, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Paul M. Thompson, Robert Asarnow (2016). **Effects of Disruption in White Matter Integrity Shown Chronically in Pediatric Traumatic Brain Injury**, Cognitive Neuroscience Society (CNS) 2016 Annual Meeting, April 2-5, 2016, New York, NY.

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870. Schonfeld D et al. (2016). **Meta-Analysis of Large HIV Cohort Reveals CD4 Effects on Longitudinal Brain Atrophy**, 2016 Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA, USA, February 22-25, 2016.
871. Ching C et al. (2016). **NeuroHIV: A Novel High-Resolution Subcortical Shape Analysis**, 2016 Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA, USA, February 22-25, 2016. [CROI Scholar Award].
872. Daniel A. Rinker, Derrek P. Hibar, Josh Cheung, Neda Jahanshad, ENIGMA2, Paul M. Thompson (2016). **Genetic pleiotropy between regional brain volumes and cardiovascular disease risk variants**, 3rd International Conference on Heart & Brain, Paris, France, Feb. 25-27 2016.
873. Jahanshad N, ...58 authors in total from the ENIGMA-DTI Working Group, ... **Thompson PM**, Glahn D, Nichols TE, Kochunov P (2016). **Do candidate genes for psychiatric disorders consistently influence white matter microstructure? A mega-analysis of 6165 individuals from the ENIGMA-DTI Consortium, submitted to SOBP 2016, Atlanta, GA, USA.**

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874. Boyle CP, Erickson KI, Lopez OL, Becker JT, Gach HM, Longstreth Jr. WT, Popov M, Carmichael OT, Thompson PM (2016) 'Factors Associated With Cortical Morphometry in Older Females Revealed by Canonical Correlation Analysis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
875. Cheung JW, Hibar DP, Jahanshad N, Nalls MA, Pankratz N, Foroud T, Singleton AB, Thompson PM (2016) 'Genetic overlap between variants influencing Parkinson's disease risk and brain volumes', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

876. Faskowitz J, McMahon KL, de Zubicaray GI, Wright MJ, Thompson PM, Jahanshad N (2016) 'Big Data harmonization on a voxelwise scale: reliability of tensor-based morphometry ', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
877. Harrison M*, Prasad G*, Jahanshad N, Hafzalla G, Faskowitz J, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Thompson PM (2016) 'Optimizing the discovery of genetically influenced brain connectivity networks using EPIC', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
878. Nir TM, Valcour VG, Jahanshad N, Prasitsuebsai W, Pruksakaew K, Clifford K, Lerdlum S, Pothisri M, Visrutaratna P, Aurbibul L, Puthanakit T, Kosalaraksa P, Ananworanich J, Thompson PM, on behalf of the SEARCH 012 and PREDICT Study Groups (2016) 'Altered Brain Structure in Children with Perinatally Acquired HIV', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
879. Nir TM, Villalon-Reina JE, Thompson PM, Jahanshad N (2016) 'Anatomic Filtering of Structural Connectome Fibers to Improve Alzheimer's Disease Classification ', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
880. Dennis EL, Babikian T, Alger JR, Villalon-Reina JE, Rashid F, Mink R, Babbitt C, Johnson J, Giza CC, Asarnow RF, Thompson PM (2016) 'Tract-Based Spectroscopy Reveals White Matter Damage in Pediatric TBI', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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883. Rinker DA, Daiyanu M, Ver Steeg G, Galstyan A, Thompson PM (2016) 'Information-theoretic discovery and clustering of ASL, structural, and cognitive markers of brain aging', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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- 887.Hibar DP, Westlye LT, Doan NT, Thompson PM, Andreassen OA for the ENIGMA Bipolar Disorder Working Group (2016) 'Cortical thinning with longer duration of illness in 2,272 bipolar patients versus 2,662 controls', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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- 891.Ragothaman A, Zavaliangos-Petropulu A, Saremi A, Ching CRK, Thompson PM, Gutman BA (2016) 'Mapping Subcortical Shape Change Rates in Alzheimer's Disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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- 897.Hoogman M, Bralten J, Onnink M, Mennes SE, Zwiers M, Hibar DP, The ENIGMA-ADHD working Group, Thompson PM, Franke B (2016) 'A large scale study of cortical measures in ADHD across the life span: an ENIGMA-ADHD collaboration', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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- 899.Boedhoe PSW, Schmaal L, Abe Y, Ameis S, Arnold P, Batistuzzo MC, Benedetti F, Beucke JC, Bose A, Bollettini I, Brem S, Calvo A, Cheng Y, Cho KK, Dallaspezia S, Denys D, Fitzgerald KD, Fouche JP, Giménez M, Gruner P, Hanna GL, Hibar DP, Hoexter MQ, Huyser C, Ikari K, Jahanshad N, Kathmann N, Kaufmann C, Koch K, Kwon JS, Lazaro L, Liu Y, Lochner C, Marsh R, Martínez-Zalacáin I, Mataix-Cols D, Menchón JM, Minuzzii L, Nakamae T, Nakao T, Narayanaswamy JC, Piras F, Piras F, Pittenger C, Reddy YCJ, Sato JR, Simpson HB, Soreni N, Soriano-Mas C, Spalletta G, Stevens MC, Szeszko PR, Tolin DF, Venkatasubramanian G, Veltman DJ, Walitza S, Wang Z, van Wingen GA, Yun JY, Xu J, Xu X, Zhao Q, ENIGMA-OCD working group, Thompson PM, Stein DJ and van den Heuvel OA (2016) 'Age-specific subcortical volumetric abnormalities in Obsessive-Compulsive Disorder (OCD): findings from the ENIGMA-OCD Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
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903. Pauling M, Sarrazin S, Jahanshad N, Hibar DP, Henry C, Hajek T, Alda M, Soares JC, Mwangi B, Ching C, Faskowitz J, Ophoff R, van Haren N, Abramovic L, Caseras X, Lopez-Jaramillo, Mitchell, Roberts G, Fullerton J, Wen W, Breakspear M, Schofield P, Elvsashagen T, Malt U, Boen E, McDonald C, Cannon D, Najt P, Phillips ML, Versace A, Almeida J, McIntosh A, Whalley H, Sussmann J, Nickson T, Agartz I, Haukvik U, Westlye LT, Pearlson G, Glahn D, Yao N, Busatto GF, Zanetti MV, Rosa P, Benedetti F, Delvecchio G, Brambilla P, Polosan M, Eyler LT, Howells F, Stein D, Wessa M, Linke J, Dannlowski U, Grotegerd D, Thompson PM, Andreassen OA, Houenou J, for the ENIGMA-Bipolar Disorder DTI Working Group (2016) 'Bipolar disorder and white matter microstructure: ENIGMA Bipolar disorder DTI results', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
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905. Gupta V, Harrison M, Prasad G, Thompson PM, ADNI (2016)', Multimodal analysis of Alzheimer's disease using diffusion and anatomic MRI', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
906. Pizzagalli F, Auzias G, Faskowitz JI, Kochunov P, Glahn DC, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Jahanshad N, Thompson PM (2016) 'Heritability of 492 cortical sulci measures in 1459 adults', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
907. Daianu M, Ver Steeg G, Riedel B, Zavaliangos-Petropulu A, Galstyan A, Thompson PM (2016) 'Modeling dependencies in weak biomarkers of Alzheimer's disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

908. Ching C, Gutman B, Zavaliangos-Petropulu A, Sun D, Jonas R, Lin A, Kushan L, van Amelsvoort T, Bakker G, Kates W, Campbell L, McCabe K, Daly E, Gudbrandsen M, Murphy C, Murphy D, Craig M, Vorstman J, Fiksinski A, Gras L, Thompson PM, Bearden C, for the 22q11.2 ENIGMA Working Group (2016) '22q11.2 Gene Dosage Effects on Subcortical Brain Structure: The ENIGMA 22q11.2 Working Group', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
909. Riedel BC, Brinton RD, Thompson PM (2016) 'White blood cell counts and regional brain volumes in Alzheimer's disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
910. Wade BSC, Valcour VG, Prasitsuebsai W, Clifford K, Saremi A, Gutman BA, Jahanshad N, Nir TM, Ananworanich J, Watson C, Puthanakit T, Aupibul L, Thompson PM (2016) 'PREDICT Shape abstract', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
911. Wade BSC, Velez C, Drennon AM, Bolzenius J, Thompson PM, Lewis J, Ritter J, York G, Tate DF (2016) 'Volumetric and Shape Analyses of Brain Structure in Military Service Members with Mild Brain Trauma', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
912. Isaev D, Gutman BA, Jahanshad N, Nir TM, Thompson PM (2016) 'Connectome registration via iterative spectral refinement', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
913. Kochunov P, Ganjgahi H, Winkler A, Kelly S, Shukla D, Du X, Jahanshad N, Rowland L, O'Donnell P, Xie Z, Paciga S, Schubert C, Thompson PM, Nichols TE, Hong E (2016) 'Heterochronicity of White Matter Development and Aging and Susceptibility to Schizophrenia', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
914. Stein J, Shatokhina N, Hibar DP, Jahanshad N, Thompson PM (2016) 'ENIGMA-Vis: Updated interactive visualization of genetic influences on brain structure', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
915. Corbin C, Villalon-Reina JE, Galvis J, Nir TM, Jahanshad N, Jonas R, Kushan L, Thompson PM, Bearden CE (2016) 'White Matter Structural Alterations Mapped In Patients With 22q11.2 Deletion Syndrome', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
916. Wang J, Braskie MN, Hafzalla G, Faskowitz J, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Yu C, Thompson PM (2016) 'Common OXTR gene variant impacts structure and function of default mode network in healthy humans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
917. Jin Y, Huang C, Daianu M, Zhan L, Zhu H, Thompson PM (2016) '3-D Tract-Specific Functional Analysis of White Matter Integrity in Alzheimer's Disease', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
918. Roussotte FF, Hua X, Narr KL and Thompson PM (2016) 'The C677T variant in MTHFR mediates associations between blood and CSF neurodegeneration biomarkers', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
919. Liew SL, Jahanshad N, Anglin J, Kim B, Nho H, Li J, Rondina J, Borich M, Boyd L, Cramer S, Lang C, Sanossian N, Soekadar S, Ward N, Winstein C, Thompson PM (2016) 'ENIGMA Stroke Recovery Working Group: Big Data Approaches to Predict Stroke Recovery from MRI Scans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016

920. Zhang J, Stonnington CM, Li Q, Shi J, Bauer III RJ, Gutman BA, Chen K, Reiman EM, Caselli RJ, Thompson PM, Ye J, Wang Y (2016) 'Patch-based Sparse Coding and Multivariate Surface Morphometry for Alzheimer's Disease Prognosis', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
921. Shiroishi MS, Faskowitz J, D'Amore F, Emami A, Cen S, Lerner A, Toga AW, Jacobs RE, Zlokovic B, Law M, Thompson PM, and Jahanshad N (2016) 'Structural Brain Effects of Cancer Derived From Clinically-Indicated Contrast-Enhanced MRI Scans', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
922. Strike LT, Hansell NK, Couvy-Duchesne B, Thompson PM, Martin NG, de Zubicaray G, McMahon KL, Wright MJ (2016) 'Genetic influences on the cerebral cortex', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
923. Sämann P, Höhn D, Elbau I, Czisch M, Jahanshad N, Whelan CD, Hibar D, Veltman D, Schmaal L, Thompson PM (2016) 'ENIGMA-MDD hippocampal subfield analysis of first episode and recurrent Major Depressive Disorder', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
924. Gutman B, Adams HHH, Hibar DP, Vernooij MW, Ikram MA, Jahanshad N, Thompson PM (2016) 'Mapping Common Genetic Variants onto Subcortical Surface Models', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016
925. Prasad G, Harrison M, Faskowitz J, Jahanshad N, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, and Thompson PM (2016) 'Optimizing Cortical Thickness Measures to Boost Heritability', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
926. Faskowitz J, Pizzagalli F, Jahanshad N, Ching C, Mwangi B, Soares J, Thompson PM (2016) 'Cortical investigation of bipolar disorder reveals inferior frontal gyral and sulcal abnormalities', Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
927. *Sonja de Zwarte, Rachel Brouwer, Manon Hillegers, Wiepke Cahn, Hilleke Hulshoff Pol, Kathryn Alpert, Lei Wang, Fergus Kane, Marco Picchioni, Elvira Bramon, Colm McDonald, Robin Murray, Tomas Hajek, Martin Alda, Gloria Roberts, Philip Mitchell, Peter Schofield, Janice Fullerton, Benson Mwangi, Jair Soares, Anja Richter, Oliver Gruber, Aurora Bonvino, Annabella Di Giorgio, Alessandro Bertolino, Emma Neilson, Stephen Lawrie, Xavier Caseras, Scott Fears, Carrie Bearden, David Glahn, Theo van Erp, Neda Jahanshad, Derrek Hibar, Paul Thompson, Jessica Turner, René Kahn, Neeltje van Haren (2016). BRAIN VOLUMES IN FAMILY MEMBERS OF SCHIZOPHRENIA OR BIPOLAR PATIENTS: AN ENIGMA META-ANALYSIS*, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
928. Sergey Plis¹, Anand Sarwate², Dylan Wood³, Christopher Dieringer¹, Drew Landis⁴, Cory Reed¹, Sandeep Panta¹, Jessica Turner⁵, Jody Shoemaker³, Kim Carter³, Paul Thompson⁶, Vince Calhoun (2016). COINSTAC: A privacy enabled model for leveraging and processing decentralized brain imaging data, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.
929. Binish Patel¹, Habib Ganjgahi², Sung Yu³, Xu Chen², Neda Jahanshad⁴, Paul Thompson⁴, Bennett Landman⁵, Dennis Ent⁶, Anouk den Braber⁶, Eco de Geus⁶, Rachel Brouwer⁷, Hilleke Hulshoff Pol⁷, Greig de Zubicaray⁸, Katie McMahon⁸, Nicholas Martin⁹, Margaret Wright⁹, David Glahn¹⁰, David Van Essen¹¹, Thomas Nichols¹², Peter Kochunov (2016). Homogenizing Estimates of Heritability Among SOLAR-Eclipse, OpenMx, APACE, and Per Leopard Software, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.

930. Anjanibhargavi Ragothaman¹, Artemis Zavaliangos-Petropulu², Arvin Saremi², Christopher Ching³, Paul Thompson⁴, Boris Gutman (2016). Mapping Subcortical Shape Change Rates in Alzheimer's Disease, Presented at the Organization of Human Brain Mapping, Geneva, Switzerland, 2016.

AAIC 2016

931. Xiaohui Yao, Jingwen Yan, Michael Ginda, Katy Borner, Sungeun Kim, Kwangsik Nho, Shannon L. Risacher, Tatiana M. Foroud, Steven G. Potkin, Paul M. Thompson, Jason H. Moore, Michael W. Weiner, Andrew J. Saykin, Li Shen, for the Alzheimer's Disease Neuroimaging Initiative (2016). **The Growth and Impact of ADNI Genetics Publications as Measured by Science Mapping, AAIC 2016.**
932. Satizabal C*, Hieab H. Adams*, Derrek P. Hibar, CHARGE consortium, ENIGMA consortium, Arfan Ikram, Paul Thompson, Sudha Seshadri (2016). Genetic Determinants of MRI subcortical brain volumes: 24 novel loci identified through GWAS in 26,000 persons, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
933. Lorenzi M, Boris Gutman, Andre Altmann, Derrek P. Hibar, Neda Jahanshad, Daniel C. Alexander, Paul M. Thompson, and Sebastien Ourselin. Linking Gene Pathways and Brain Atrophy in Alzheimer's Disease. Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
934. Corlier F, Hafzalla GW, Rawat R, Kuller LH, Becker JT, Lopez OL, Thompson PM, Braskie MN. Aging Brain Structure is Related to Systemic Inflammation and Associated Genetic Variants, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA
935. Scott JA, Braskie MN, Tosun D, Thompson PM, Weiner MW, DeCarli C, Carmichael OT. MRI and CSF Biomarker Predictors of Executive Function and Memory in the Elderly. 2016. Submitted to Alzheimer's Association International Conference. Toronto, Canada.
936. Scott JA, Tosun D, Braskie MN, Maillard P, Thompson PM, Weiner MW, DeCarli C, Carmichael OT. Cerebral Amyloid is Associated with Greater White Matter Hyperintensity Accrual over 2 years in the Elderly. 2016. Submitted to Alzheimer's Association International Conference. Toronto, Canada.
937. Nho K, Ph.D.^{1,2,3*}, Sungeun Kim, Ph.D.^{1,2,3}, Shannon L. Risacher, Ph.D.^{1,3}, Li Shen, Ph.D.^{1,2,3}, Paul M. Thompson, Ph.D.⁴, Frank Gunn-Moore Ph.D.⁵, and Andrew J. Saykin, Psy.D.^{1,2,3,6*}, for the Alzheimer's Disease Neuroimaging Initiative (2016). Whole brain surfaced-based analysis identified brain atrophy associated with SNPs in *FRMD6* linked to AD, Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.
938. Gutman B, Brandalyn Riedel, Anjani Ragothapalan, Paul M. Thompson, Sex Hormone Levels Moderate the Effects of Alzheimer's Disease on Subcortical Morphometry. Submitted to the Alzheimer's Association International Conference 2016, Toronto, CA.

Euthynidis Conference 2016

939. Marieke Klein¹, Jason L. Stein², ENIGMA2 consortium, ADHD working group of the Psychiatric Genomics Consortium, iPSYCH consortium, Anders Borglum³, Stephen V. Faraone⁴, Paul M. Thompson⁵, Sarah E. Medland⁶, Alejandro Arias-Vasquez^{1,7,8}, Barbara Franke (2016). **Investigating the overlap between common genetic factors for ADHD and subcortical brain volumes**, Euthynidis Conference 2016.

ISTSS Conference 2016

940. Rajendra A. Morey¹, Emily L. Dennis², Allison Ashley-Koch³, Melanie Garrett³, Sarah Lancaster⁴, Mike Hauser³, Kate McLaughlin⁵, Matthew Peverill⁵, Margaret Sheridan⁶, Ilan Harpaz-Rotem⁷, Ifat Levy⁷, Kristen Wrocklage⁷, John Krystal⁷, Chadi Abdallah⁷, Paul M. Thompson¹, Kathleen Thomaes⁸, Dick Veltman⁸, Saskia Koch⁹, Elbert Geuze¹⁰, Dan Stein¹¹, Jonathan Ipser¹¹, Kerry Ressler¹², Jennifer Stevens¹², Mark Miller², Sanne van Rooij¹², Jim Lagopoulos¹³, Regina McGlinchey¹⁴, William P. Millberg¹⁴ and Mark Logue¹⁴ for the PGC-ENIGMA PTSD Workgroup (2016). **Altered Subcortical Volumes in PTSD: Findings from PGC-ENIGMA PTSD, ISTSS Conference 2016.**

ISBD/ISAD 2016

941. Pauling M^{1,2}, Sarrazin S^{1,2,3}, Jahanshad N⁴, Hibar DP⁴, Henry C^{1,3}, Hajek T^{5,6}, Alda M⁶, Soares JC⁷, Mwangi B⁷, Ching C⁴, Faskowitz J⁴, Ophoff R^{8,9}, van Haren NE⁹, Abramovic L⁹, Caseras X¹⁰, Foley S¹⁰, Lopez-Jaramillo C¹¹, Mitchell PB¹², Roberts G¹², Fullerton JM^{12,13}, Wen W¹², Schofield PR^{12,13}, Elvsashagen T^{14,15,16,17}, Malt U^{15,18}, Boen E^{15,19}, Doan NT^{15,19}, McDonald C²⁰, Cannon DM²⁰, Najt P²⁰, Phillips ML²¹, Versace A²¹, Almeida J^{21,22}, McIntosh A²³, Whalley H²³, Sussmann J²³, Nickson T²³, Agartz I^{14,15}, Haukvik U^{14,15}, Westlye LT^{14,15}, Pearlson G^{24,25}, Glahn D^{24,25}, Yao N^{24,25}, Busatto GF^{26,27}, Zanetti MV^{27,28}, Rosa P^{27,28}, Benedetti F²⁹, Delvecchio G³⁰, Brambilla P³⁰, Polosan M^{31,32}, Eyer LT³³, Howells F³⁴, Stein D³⁴, Wessa M³⁵, Linke J³⁵, Dannlowski U³⁶, Reppe J³⁶, Deppe M³⁷, Kugel H³⁸, Baune B³⁹, Grotegerd D³⁶, Thompson PM⁴, Andreassen OA^{14,18}, Houenou J^{1,2,3}, for the ENIGMA-Bipolar Disorder DTI Working Group (2016). **Bipolar disorder and white matter microstructure: ENIGMA Bipolar disorder DTI results, ISBD/ISAD meeting 2016 (Amsterdam, July 2016).**

BGA (Behavior Genetics Association) 2016

942. Baptiste Couvy-Duchesne, Lachlan T. Strike, Narelle K. Hansell, Nicholas G. Martin, Katie L. McMahon, Greig I. de Zubicaray, Paul M. Thompson, Margaret J. Wright (2016). **Power of multivariate GWAS: real case scenarios using brain phenotypes from MRI, BGA 2016, Brisbane, June 2016.**

943. Narelle Hansell, Lachlan Strike, Katie McMahon, Nicholas Martin, Greig de Zubicaray, Paul Thompson, Margaret Wright (2016). **Genetic Covariation Among Hippocampal Subfields, Power of multivariate GWAS: real case scenarios using brain phenotypes from MRI, BGA 2016, Brisbane, June 2016.**

944. Lachlan Strike, Narelle Hansell, Baptiste Couvy-Duchesne, Paul Thompson, Nicholas Martin, Greig de Zubicaray, Katie McMahon, Margaret Wright (2016). Genetic contributions to brain structure, **BGA 2016, Brisbane, June 2016.**

945. Dirk Smit, Steve Malone, Scott Burwell, Eco de Geus, Derrek Hibar, Paul Thompson, Dorret Boomsma, Nicholas Martin, Sarah Medland, Bernice Porjesz, William Iacono (2016). ENIGMA-EEG: GWAS of brain function, **BGA 2016, Brisbane, June 2016.**

RSNA 2016

946. Priya Rajagopalan, ..., Paul Thompson (2016). Higher levels of stress hormone, Cortisol, is associated with larger ventricular volumes, in two independent elderly study cohorts, submitted to RSNA 2016.

SFN 2016 (10 abstracts)

947. Sinead Kelly^{1*}, Laura S. van Velzen^{2*}, Sean Hatton¹², Andre Aleman¹⁷, Bernhard T. Baune²⁵, Yuqi Cheng²¹, Udo Dannlowski⁴, Michael Deppe²², Baptiste Couvy Duchesne¹⁴, Thomas Frodl⁶, David Glahn¹⁸, Ian H. Gotlib¹¹, Nynke Groenewold^{17,19}, Dominik Grotegerd⁴, Wenbin Guo⁵, Tiffany Ho¹⁰, Harald Kugel²³, Hiroshi Kunugi¹⁵, Jim Lagopoulos¹², Tristram A. Lett⁷, Andrew McIntosh⁹, Katie L. McMahon²⁶, Nicholas G. Martin¹⁴, Susanne Meinert²⁴, Tom Nickson⁹, Miho Ota¹⁵, Maria J. Portella¹⁶, Matthew D. Sacchet¹¹, Philipp Saemann¹³, Dan Stein¹⁹, Leonardo Tozzi³, Dick Veltman², Henrik Walter⁷, Martin Walter⁸, Margaret J. Wright¹⁴, Tony T. Yang¹⁰, Greg I. de Zubicaray²⁷, Paul M. Thompson¹, Neda Jahanshad^{1#}, Lianne Schmaal^{2#} (2016). White Matter Differences in Major Depression: Meta-analytic findings of 1,330 cases and controls from the ENIGMA-MDD DTI working group, **SFN 2016**, San Diego, CA, USA.
948. *S.-L. LIEW¹, N. JAHANSHAD¹, J. ANGLIN¹, N. KHOSHAB², B. KIM¹, W. NAKAMURA¹, H. NHOUNG¹, J. RONDINA³, C. TRAN¹, M. BORICH⁴, L. BOYD⁵, S. CRAMER², M. A. DIMYAN⁶, E. ERMER⁶, C. E. LANG⁷, J. LI¹, T. NICHOLS⁸, P. ROBERTS⁹, N. SANOSSIAN, S. SOEKADAR¹⁰, N. WARD³, L. T. WESTLYE¹¹, C. WINSTEIN¹, G. F. WITTENBERG⁶, P.M. THOMPSON (2016). **ENIGMA Stroke Recovery: Big data neuroimaging to predict stroke recovery**, **SFN 2016**, San Diego, CA, USA
949. **Christopher R. K. Ching, Boris A Gutman, Daqiang Sun, Rachel K. Jonas, Amy Lin, Leila Kushan, Paul M. Thompson, Carrie E. Bearden and the ENIGMA 22q11.2 Working Group** (2016). 22q11.2 deletion and duplication syndrome: A high-resolution subcortical shape analysis, **SFN 2016**, San Diego, CA, USA.
950. Talia M. Nir¹, Artemis Zavaliangos-Petropulu¹, Neda Jahanshad¹, Julio E. Villalon-Reina¹, Liang Zhan², Alex D. Leow³, Matt A. Bernstein⁴, Clifford R. Jack, Jr⁴, Michael W. Weiner⁵, Paul M. Thompson¹, for the Alzheimer's Disease Neuroimaging Initiative (ADNI) (2016). **Diffusion Tensor Distribution Function Maps Boost Power to Detect Alzheimer's Disease Deficits in Low Resolution Data**, **SFN 2016**, San Diego, CA, USA.
951. Faisal Rashid¹, Emily L. Dennis¹, Julio Villalon-Reina¹, Gautam Prasad¹, Josh Faskowitz¹, Talin Babikian², Richard Mink³, Christopher Babbitt⁴, Jeffrey Johnson⁵, Christopher C. Giza⁶, Robert F. Asarnow^{2,7,8}, Paul M. Thompson (2016). **Improved Group Differentiation of Adolescent Traumatic Brain Injury using Multimodal Registration and Automatic Multi-atlas Tract Extraction (autoMATE)**, **SFN 2016**, San Diego, CA, USA.
952. Brandalyn C. Riedel, Roberta D. Brinton, & Paul M. Thompson (2016). Towards multivariate genetic models predicting Alzheimer's disease risk, **SFN 2016**, San Diego, CA, USA.
953. *Marc Harrison, Gautam Prasad, Anjanibhargavi Ragothaman, Paul Thompson* (2016). **Improving Connectome Based Classification of Parkinson's Disease**, **SFN 2016**, San Diego, CA, USA.
954. Joshua Faskowitz¹, Fabrizio Pizzagalli¹, Benson Mwangi², Peter Kochunov³, Jair Soares², Paul M. Thompson, Neda Jahanshad (2016). Cortical abnormalities in patients with bipolar disorder more localized than in those with schizophrenia, **SFN 2016**, San Diego, CA, USA.
955. Arvin Saremi¹, Neda Jahanshad PhD¹, Wasana Prasitsuebsai MD², Talia M. Nir BS¹, Katherine Clifford BA⁶, Linda Aurpibul, MD³, Kanchana Pruksakaew MSc², Sukalaya Lerdlum MD⁴, Pannee Visrutaratna MD⁵, Stephen J. Kerr PhD², Thanyawee Puthanakit MD^{2,4}, Robert Paul PhD⁷, Jintanat Ananworanich MD PhD^{2,8,10}, Paul M. Thompson PhD^{1,9}, Victor G. Valcour MD PhD^{6,10} on behalf of the SEARCH 012 and the PREDICT Study Groups (2016). **Longitudinal Effects of Combination Antiretroviral Therapy on White Matter Microstructure during Childhood Brain Development**, **SFN 2016**, San Diego, CA, USA.
956. **Corlier F, Hafzalla G, Kuller LH, Becker JT, Lopez OL, Thompson PM, Braskie MN (2016)**. Aging brain structure is related to systemic inflammation and cardiovascular risk, **SFN 2016**, San Diego, CA, USA.

ISMRM 2016

957.Emily Dennis, Talin Babikian, Jeffry Alger, Faisal Rashid, Yan Jin, Jeffrey Johnson, Christopher Babbitt, Richard Mink, Christopher Giza, Robert Asarnow, Paul Thompson (2016). **Integrated DWI and MRS Improve Prediction of Cognitive Outcome in Pediatric TBI, ISMRM 2016.**

MASAMB 2016

958. Marco Lorenzi, Boris Gutman, Paul Thompson, Daniel Alexander, Andre Altmann and Sebastien Ourselin (2016). Enabling secure multivariate large-scale multi-centric analysis through on-line learning: an imaging genetics case study using recursive partial least squares, [Mathematical and Statistical Aspects of Molecular Biology Workshop](#), University of Cambridge, UK.

959.Sook-Lei Liew¹, PhD, OTR/L, Neda Jahanshad¹, PhD, Julia Anglin¹, BS, Panthea Heydari¹, BS, Nima Khoshab², MS, Bokkyu Kim¹, MS, PT, William Nakamura¹, BS, Heng Nhoung¹, BA, Jane Rondina³, PhD, Catherine Tran¹, BS, Lisa Aziz-Zadeh¹, PhD, Michael Borich⁴, PhD, DPT, Lara Boyd⁵, PhD, PT, Michael A. Dimyan⁶, MD, Elsa Ermer⁶, PhD, Catherine E. Lang⁷, PhD, PT, Junning Li¹, PhD, Thomas Nichols⁸, PhD, Pamela Roberts⁹, PhD, OTR/L, Nerses Sanossian¹, MD, Surjo Soekadar¹⁰, MD, Nick Ward³, MD, Junping Wang¹¹, MD, PhD, Lars T. Westlye¹², PhD, Carolee J. Winstein¹, PhD, PT, FAPTA, George F. Wittenberg⁶, MD, PhD, Steven C. Cramer², MD, & Paul M. Thompson¹, PhD (2016). **Effects of Lesion Hemisphere on Post-Stroke Motor Impairment: ENIGMA Stroke Recovery (N=343), International Stroke Conference, 2016.**

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1013. Dmitry Petrov, Alexander Ivanov, Daniel Moyer, **Paul Thompson**, Mikhail Belayev (2017). Reskit — a library for creating and curating reproducible pipelines for scientific machine learning, Austin, TX, USA, July 2017.

Neurotrauma 2017

1014. **Dennis EL**, Babikian T, Alger J, Rashid F, Villalon-Reina JE, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2017). Magnetic Resonance

Spectroscopy Along Tract in Pediatric Traumatic Brain Injury. *Annual Symposium of the National Neurotrauma Society*: Park City, UT.

1015. **Dennis EL**, Rashid F, Ellis MU, Babikian T, Villalon-Reina JE, Vlasova R, Jin Y, Olsen A, Mink R, Babbitt C, Johnson J, Giza CC, Thompson PM, Asarnow RF (2017). Prolonged White Matter Degeneration in a Subset of Pediatric TBI Patients. *Annual Symposium of the National Neurotrauma Society*: Park City, UT.

INS 2018

1016. Lauren Salminen, Dick Veltman, Saskia Koch, Miriam van Zuiden, Miranda Olf, Dan Stein, Sheri Koopowitz, Jonathan Ipser, Kerry Ressler, Jennifer Stevens, Tanja Jovanovic, Sanne van Rooij, Steven van der Werff, Lauren Lebois, Seth Disner, Stefan Du Plessis, Soroya Seedat, Leigh van den Heuvel, Richard Bryant, Mayuresh Korgaonkar, Theo Van Erp, Israel Liberzon, Xin Wang, Tony King, Elbert Geuze, Katie McLaughlin, Chadi Abdallah, Kristen Wrocklage, Ilan Harpaz-Rotem, Ifat Levy, Philipp Saemann, Neda Jahanshad, Paul Thompson, Raj Morey (2017). **Hippocampal Subfield Abnormalities in Current and Lifetime PTSD: International Analysis from the PGC-ENIGMA PTSD Working Group, INS 2018.**
1017. Sook-Lei Liew¹, PhD, OTR/L, Neda Jahanshad¹, PhD, Julia Anglin¹, BS, Panthea Heydari¹, BS, Nima Khoshab², MS, Bokkyu Kim¹, MS, PT, William Nakamura¹, BS, Heng Nhoung¹, BA, Jane Rondina³, PhD, Catherine Tran¹, BS, Lisa Aziz-Zadeh¹, PhD, Michael Borich⁴, PhD, DPT, Lara Boyd⁵, PhD, PT, Michael A. Dimyan⁶, MD, Elsa Ermer⁶, PhD, Catherine E. Lang⁷, PhD, PT, Junning Li¹, PhD, Thomas Nichols⁸, PhD, Pamela Roberts⁹, PhD, OTR/L, Nerses Sanossian¹, MD, Surjo Soekadar¹⁰, MD, Nick Ward³, MD, Junping Wang¹¹, MD, PhD, Lars T. Westlye¹², PhD, Carolee J. Winstein¹, PhD, PT, FAPTA, George F. Wittenberg⁶, MD, PhD, Steven C. Cramer², MD, & Paul M. Thompson¹, PhD (2016). **Subcortical Volumes Associated with Post-stroke Motor Performance Vary Across Impairment Severity, Time Since Stroke, and Lesion Laterality: An ENIGMA Stroke Recovery Analysis, International Stroke Conference, 2017.**

ICAD 2017

1018. Mendez MF, Daianu M, Melrose RJ, Jimenez EE, Thompson PM (2017). **Diffusion Tensor Imaging Structural Connectomes in Early-Onset Alzheimer's Disease Phenotypes, ICAD 2017, London, UK, July 2017.**

AAN 2018 (American Academy of Neurology)

1019. Mark Shiroishi, Vikash Gupta, Joshua Faskowitz, Bavrina Bigjahan, Steven Cen, Faisal Rashid, Darryl Hwang, Alexander Lerner, Orest Boyko, Chia-Shang Jason Liu, Meng Law, Paul Thompson, Neda Jahanshad (2018). The ENIGMA Cancer and Chemotherapy Working Group and Cancer-Related Cognitive Impairment, **AAN 2018**, Los Angeles, CA.
1020. Meral Tubi, Franklin Feingold, Fabian Corlier, Nicki Mostowfi, Paul Thompson, Meredith Braskie (2018). VEGF's Relationship to Brain Aging Biomarkers, **AAN 2018**, Los Angeles, CA.
1021. Conor Corbin, Vikash Gupta, Talia M. Nir, Julio E. Villalon, Faisal Rashid, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2018). White Matter Changes in

Parkinson's Disease Mapped with a Novel Tract Mapping Algorithm, **AAN 2018**, Los Angeles, CA.

- 1022.Brandalyn C. Riedel, Mario F. Mendez, Madelaine Daianu, Randy Desarzent, Rebecca J. Melrose, Elvira E. Jimenez, Paul M. Thompson (2018). White matter connectivity differences between typical amnesic and variant non-amnesic individuals with early-onset Alzheimer's disease (EOAD), **AAN 2018**, Los Angeles, CA.
- 1023.Boris A. Gutman, Joanna Bright, Christian Rummel, Cristiane S. Rocha, Ines Debove, Clarissa Yasuda, Rachel Paes Guimaraes, Felipe Bergo, Anelyssa D'Abreu, Kathleen Poston, Roland Wiest, Fernando Cendes, Paul M. Thompson, Ysbrand van der Werf, for the ENIGMA Parkinson's Disease Working Group (2018). Widespread Cortical Thinning in Parkinson's Disease: Findings from the ENIGMA-Parkinson's Disease Working Group, **AAN 2018**, Los Angeles, CA.
- 1024.Talia Nir, Sophia I. Thomopoulos, Neda Jahanshad, Robert Reid, Matt Bernstein, Bret Borowski, Clifford Jack, Jr., Michael Weiner, Paul Thompson (2018). Diffusion MRI Measures from the Updated ADNI3 Protocol are Associated with Cognitive Impairment in the Elderly, **AAN 2018**, Los Angeles, CA.
- 1025.Faisal Rashid, Emily L. Dennis, Monica U. Ellis-Blied, Talin Babikian, Jeffry Alger, Julio E. Villalon-Reina, Yan Jin, Alexander Olsen, Richard Mink, Christopher Babbitt, Jeffrey Johnson, Christopher C. Giza, Paul M. Thompson, Robert F. Asarnow (2018). Understanding Divergent Trajectories in Pediatric Patients with Moderate to Severe Traumatic Brain Injury, **AAN 2018**, Los Angeles, CA.
- 1026.Emily L. Dennis, Elisabeth A. Wilde, Randall S. Scheibel, Maya Troyanskaya, Carmen Velez, Benjamin S.C. Wade, Ann Marie Drennon, Gerald E. York, Erin D. Bigler, Tracy J. Abildskov, Brian A. Taylor, Carlos A. Jaramillo, Blessen Eapen, Heather Belanger, Mary R. Newsome, Harvey S. Levin, Sidney R. Hinds II, William C. Walker, Paul M. Thompson, David F. Tate (2018). ENIGMA Military Brain Injury: A Preliminary Meta-Analysis of Diffusion MRI Measures, **AAN 2018**, Los Angeles, CA.

ASNR 2017 - American Society of Neurorehabilitation

- 1027.Artemis Zavaliangos-Petropulu¹, Neda Jahanshad¹, Christopher R.K. Ching^{1,2}, Dmitry Isaev¹, Anjanibhargavi Ragothaman¹, Boris Gutman¹, Bokkyu Kim¹, Andrew D. Robertson³, Jane Maryam Rondina⁴, Lisa Aziz-Zadeh¹, Winston D. Byblow⁵, Steven C. Cramer⁶, Martin Domin⁷, Steven A. Kautz⁸, Amy Kuceyeski⁹, Catherine E. Lang¹⁰, Jingchun Liu¹¹, Martin Lotze⁷, Bradley J. MacIntosh³, Ander Ramos-Murguialday¹², Pamela Roberts¹³, Cathy M. Stinear⁵, Gregory Thielman¹⁴, Junping Wang¹¹, Carolee Winstein¹, George Wittenberg¹⁵, Chunshui Yu¹¹, Paul M Thompson¹, Sook-Lei Liew (2017). Subcortical Brain Shape Differences Relate to Post-Stroke Motor Behavior, **American Society of Neurorehabilitation Conference**, 2017.

CINP 2018

1028.Boedhoe, P.S.W., Yun, J., Piras, F., the ENIGMA OCD working group, Kwon, J., Spalletta, G., Thompson, P.M., Stein, D.J., van den Heuvel, O.A. (2018). **Neuroimaging of Obsessive-Compulsive Disorder: Collaborative Findings from the ENIGMA-OCD working group**, CINP 2018, June 16-19 2018, Vienna, Austria.

OHBM 2018 (28 abstracts; 20 from IGC, 8 additional abstracts from ENIGMA)

1029.Daniel Moyer, Greg ver Steeg, Paul M. Thompson (2018). How many tracks should we sample?, **OHBM 2018**, Singapore.

1030.Talia M. Nir, Hei Y. Lam, Arvin Saremi, Thanyawee Puthanakit, Linda Aurpibul, Robert Paul, Stephen Kerr, Katherine Clifford, Sukalya Lerdlum, Mantana Pothisri, Pannee Visrutaratna, Pope Kosalaraksa, Tulathip Suwanlerk, Paul M. Thompson, Victor G. Valcour, Jintanat Ananworanich, Neda Jahanshad, on behalf of the SEARCH 012 and PREDICT Study Groups (2018). Altered Brain Developmental Trajectories in Children with Perinatally Acquired HIV, **OHBM 2018**, Singapore.

1031.Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, MiHyun Jang, Tejal Patted, Victoria Knight, Chris Ching, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). ENIGMA-ODS: An Informatics Approach to Global Neuroscience from the ENIGMA Consortium, **OHBM 2018**, Singapore.

1032.Alyssa H. Zhu, Arvin Saremi, Paul M. Thompson, Neda Jahanshad (2018). Automated Multi-Modal Segmentation of the Midsagittal Corpus Callosum to Map Structural Development, **OHBM 2018**, Singapore.

1033.Sophia Thomopoulos, Talia Nir, Neda Jahanshad, Robert Reid, Matt Bernstein, Bret Borowski, Clifford Jack, Jr., Michael Weiner, Paul Thompson (2018). ADNI3 dMRI: White Matter Microstructure and its Relation to Alzheimer's Disease Severity Measures, **OHBM 2018**, Singapore.

1034.Watsamon Jantarabenjakul, Neda Jahanshad, Talia M.Nir³, Alyssa H. Zhu³, Arvin Saremi³, Conor Corbin³, Jesdaporn Srisamer, Tuangtip Theerawit², Jiratchaya Sophonphan², Montida Veeravigom¹, Weerasak Chonchaiya¹, Netsiri Dumrongpisutikul⁴, Pipat Saeyap⁵, Pannika Vorapaluk⁵, Thanyawee Puthanakit^{1,2}, Jintanat Anantaworanich^{6,7}, Kathleen Malee⁸, Paul M. Thompson³, Chitsanu Pancharoen^{1,2} on behalf of DOET study (2018). Corpus callosum and gross motor deficit in early treated perinatally HIV-infected children, **OHBM 2018**, Singapore.

1035.Neda Jahanshad and the ENIGMA Cortical GWAS Consortium (2018). The ENIGMA Cortical GWAS Collaboration identifies 81 genetic loci influencing cortical structure, **OHBM 2018**, Singapore.

1036.Boris A. Gutman, Joanna Bright, Christian Rummel³, Cristiane S. Rocha⁵, Ines Debove⁴, Clarissa Yasuda⁶, Rachel Paes Guimaraes⁵, Felipe P. G. Bergo⁵,

- Anelyssa D'Abreu^{5,7}, Kathleen Poston⁸, Roland Wiest³, Fernando Cendes⁵, Chris Vriend^{2,9}, Premika Boedhoe^{2,9}, Henk W. Berendse¹⁰, Odile A. van den Heuvel^{2,9}, Anjani Ragothaman¹, Neda Jahanshad¹, Christopher R.K. Ching¹, Paul M. Thompson¹, Ysbrand van der Werf² (2018). Cortical Morphometry Effects of Parkinson's Disease: A Preliminary ENIGMA-Parkinson's Study, **OHBM 2018**, Singapore.
1037. Brandalyn Riedel, Paul Thompson, Alzheimer's Disease Neuroimaging Initiative (ADNI) (2018). Preliminary analyses on genetic variants associated with predicted brain age in ADNI, **OHBM 2018**, Singapore.
1038. Mark S. Shiroishi, Alyssa H. Zhu, Tanya Dorff, Bavrina Bigjahan, Alexander Lerner, Chia-Shang Jason Liu, Paul M. Thompson, Neda Jahanshad (2018). Brain morphometry in prostate cancer survivors from the ENIGMA Cancer & Chemotherapy Working Group, **OHBM 2018**, Singapore.
1039. Christopher R.K. Ching, Paul M. Thompson, Carrie E. Bearden, for the ENIGMA 22q11.2 Deletion Syndrome Working Group (2018). Convergent subcortical brain alterations in 22q11.2 deletion syndrome and schizophrenia, **OHBM 2018**, Singapore.
1040. Qifan Yang, Gennady V. Roshchupkin, Wiro J. Niessen, Sarah E. Medland, Alyssa H. Zhu, Paul M. Thompson, and Neda Jahanshad (2018). New 2StepLMM Using Left and Right Volumes as Repeat Measurements Improves Heritability Estimates, **OHBM 2018**, Singapore.
1041. Linda Ding, Alyssa Zhu, Arvin Saremi, Joshua Faskowitz, Asta Haberg, Paul Thompson, Neda Jahanshad (2018). Voxelwise Meta-Analysis of Brain Structural Association with Polygenic Risk for Alzheimer's Disease, **OHBM 2018**, Singapore.
1042. Fabrizio Pizzagalli, Guillaume Auzias, Jean-Francois Mangin, Denis Riviere, Peter Kochunov, Paul M. Thompson, Neda Jahanshad (2018). Improvement of sulcus-based morphometry sensitivity through new sulci aggregation, **OHBM 2018**, Singapore.
1043. Lauren E. Salminen, Alyssa H. Zhu, Brandalyn C. Riedel, Christopher R. K. Ching, Victoria Knight, Arvin Saremi, Faisal Rashid, Sophia I. Thomopoulos, Marc B. Harrison, Anjanibhargavi Ragothaman, Sarah E. Medland, Paul M. Thompson, Neda Jahanshad (2018). Neuroimaging Correlates of Maternal Smoking Later in Life: Analysis of the UK Biobank Cohort, **OHBM 2018**, Singapore.
1044. Vishal Patel, Paul M. Thompson, Arthur W. Toga (2018). A Deep Learning Approach to Spherical Deconvolution for Fiber Orientation in HARDI, **OHBM 2018**, Singapore.

1045. Natalia Shatokhina, Jason Stein, Neda Jahanshad, Sarah Medland, Katrina Grasby, Derrek Hibar, Janita Bralten, Barbara Franke, Peter Kochunov, Paul M. Thompson (2018). ENIGMA-Vis: A Portal to View Genetic Effects on the Human Brain Based on Large-Scale GWAS, **OHBM 2018**, Singapore.
1046. Emily L. Dennis, Elisabeth A. Wilde, Mary R. Newsome^{3,4}, Randall S. Scheibel^{3,4}, Maya Troyanskaya, Carmen Velez⁶, Benjamin S.C. Wade^{6,7}, Ann Marie Drennon⁸, Gerald E. York⁹, Erin D. Bigler¹⁰, Tracy J. Abildskov¹⁰, Brian A. Taylor^{3,4,11}; Carlos A. Jaramillo, Blessen Eapen¹², Heather Belanger^{13,14}, Rajendra Morey¹⁵, Courtney Haswell¹⁵, Harvey S. Levin, Sidney R. Hinds II¹⁶; William C. Walker^{8,17,18}, Paul M. Thompson, David F. Tate (2018). Meta-Analysis of Diffusion MRI in the ENIGMA Military Brain Injury Group: Preliminary Results, **OHBM 2018**, Singapore.
1047. Emily L. Dennis, Negar Fani, Seth Disner, Dmitry Isaev¹, Stefan Du Plessis⁴, Courtney Haswell⁵, Jonathan Ipser⁶, Sinead Kelly¹, Saskia Koch⁷, Peter Kochunov⁸, Mark Logue⁹, Danielle R. Miller^{9,10}, Mark W. Miller^{9,10}, Katie McLaughlin¹¹, Matthew Peverill¹¹, Annerine Roos¹², Soraya Seedat⁴, Dan J. Stein⁶, Paul M. Thompson¹, Steven J.A. van der Werff¹³, Nic J.A. van der Wee¹³, Neda Jahanshad^{1*} and Rajendra A. Morey^{5*} for the PGC-ENIGMA PTSD Working Group (2018). Decreased White Matter Integrity in PTSD: Preliminary Results from the PGC-ENIGMA-PTSD Working Group, **OHBM 2018**, Singapore.
1048. Julio Villalón-Reina, Kenia Martínez, Xiaoping Qu, Talia M. Nir, Christopher Ching, Neda Jahanshad, Deydeep Kothapalli, Conor Corbin, Daqiang Sun, Amy Lin, Jennifer Forsyth, Leila Kushan, Ariana Vajdi, Maria Jalbrzikowski, Laura Hansen, Rachel K. Jonas, Therese van Amelsvoort, Geor Bakker, Wendy R. Kates, Kevin M. Antshel, Wanda Fremont, Linda E. Campbell, Kathryn L. McCabe, Eileen Daly, Maria Gudbrandsen, Clodagh Murphy, Declan Murphy, Michael Craig, Kieran C Murphy, Jacob Vorstman, Ania Fiksinski, Sanne Schuite-Koops, Kosha Ruparel, David Roalf, Raquel E. Gur, J. Eric Schmitt, Beverly Emanuel, Donna M. McDonald-McGinn, Tony J Simon, Naomi J. Goodrich-Hunsaker, Courtney A. Durdle, Joanne Doherty, Adam Cunningham, Marianne van den Bree, David Linden, Michael Owen, Hayley Moss, Paul M. Thompson, Carrie E. Bearden (2018). Highly Atypical White Matter in 22q11.2 Deletion Syndrome: an ENIGMA-DTI Consortium Study, **OHBM 2018**, Singapore.
1049. Nynke A. Groenewold, Janna Marie Bas-Hoogendam, Alyssa R. Amod, Laura van Velzen⁵, Moji Aghajani, Dick J. Veltman⁵, Courtney A. Filippi⁶, Andrea L. Gold⁶, Daniel S. Pine, Christopher R.K. Ching⁷, Neda Jahanshad⁷, Paul M. Thompson⁷, Dan J. Stein, and Nic J.A. van der Wee, on behalf of the ENIGMA-Anxiety Working Group (2018). Analyzing subcortical volumes in adult and pediatric social anxiety disorder in ENIGMA-Anxiety, **OHBM 2018**, Singapore.
1050. Xiang-Zhen Kong, Samuel R. Mathias, Tulio Guadalupe, ENIGMA Laterality Working Group, Karolinska Schizophrenia Project (KaSP), David C. Glahn, Barbara

Franke, Fabrice Crivello, Nathalie Tzourio-Mazoyer, Simon E. Fisher, Paul M. Thompson, Clyde Francks (2018). Mapping Cortical Brain Asymmetry in 17,141 Healthy Individuals Worldwide via the ENIGMA consortium, **OHBM 2018**, Singapore.

1051. Yann Chye, Scott Mackey, Boris Gutman³, Paul Thompson³, Anne Uhlmann^{2,4}, Patricia Conrod⁵, Hugh Garavan², & ENIGMA Addiction Working Group (2018). Mapping subcortical surface morphometry across substance use: An ENIGMA addiction working group study, **OHBM 2018**, Singapore.

1052. Bhim M. Adhikari, Neda Jahanshad, Dinesh Shukla¹, Els Fieremans³, Jelle Veraart³, Dmitry S. Novikov³, L. Elliot Hong¹, Paul M. Thompson², Peter Kochunov (2018). Ranking resting-state functional connectivity deficits in schizophrenia using ENIGMA rsfMRI and DTI approaches, **OHBM 2018**, Singapore.

1053. Abraham Nunes, Hugo Schnack, Dominik Grotegerd, Tim Hahn, Udo Dannlowski, Neeltje EM van Haren, Josselin Houenou, Edoaurd Duchesnay, Lisa Eyler, Xavier Caseras, Lars Tjelta Westlye, Nhat Trung Doan, Torbjørn Elvsåshagen Benson Irungu, Soares Jair, Carlos López Jaramillo, David Glahn, Colm MacDonald, Dara Cannon, Theodore Satterthwaite, Gloria Roberts, Fleur Margaret Howells, Krug Axel, Pomarol-Clotet Edith, Martin Alda, Thomas Trappenberg, Ole Andreassen, Chris R.K. Ching, Neda Jahanshad, Derrek P. Hibar, Paul M. Thompson, Tomas Hajek (2018). Using structural MRI to identify bipolar disorders – 13 site machine learning study in 3020 individuals from the ENIGMA Bipolar Disorder Working Group, **OHBM 2018**, Singapore.

1054. Ida Elken Sønderby, Nhat Trung Doan, Derrek Hibar, Sandra Martin-Brevet, Lars Westlye, Sébastien Jacquemont, Srdjan Djurovic, Paul Thompson, Ole Andreassen, ENIGMA-CNV working group (2018). Dose response of the 16p11.2 distal copy number variant on intracranial volume and basal ganglia, **OHBM 2018**, Singapore.

1055. Dirk Smit and the ENIGMA EEG Working Group (2018). Psychiatric Liability Genes Are Linked to Oscillatory Brain activity: A Genome-Wide Association Study, **OHBM 2018**, Singapore.

1056. Martine Hoogman and the ENIGMA ADHD Working Group (2018). ADHD and the cortex; evidence from large clinical and population based samples, **OHBM 2018**, Singapore.

AAIC 2018

1057. Meral A. Tubi,¹ Franklin W. Feingold,¹ Fabian Corlier,¹ Nicki Mostowfi,¹ Paul M. Thompson,¹ Meredith N. Braskie (2018). **RELATIONSHIP OF BRAIN STRUCTURE AND GLUCOSE METABOLISM TO VASCULAR ENDOTHELIAL GROWTH FACTOR (VEGF)**, **AAIC 2018**.

1058. Meredith N. Braskie, Paul M. Thompson (2018). Peripheral inflammation and brain glucose metabolism in non-demented older adults, **AAIC 2018**.

SOBP 2018 (late breaking abstracts)

1059. **Ida Elken Søndersby**¹, Ómar Gústafsson², Nhat Trung Doan¹, Derrek Paul Hibar³⁻⁵, Dennis van der Meer¹, Lars T. Westlye^{1,6-7}, Srdjan Djurovic¹, Paul M. Thompson³, Ole A. Andreassen^{1*} for the ENIGMA-CNV working group (2018). **Positive dose response of the 1q21.1 distal CNV on intracranial volume and cortical surface area, submitted to SOBP 2018, New York, May 2018.**

1060. Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, Faisal Rashid, MiHyun Jang, Tejal Patted, Victoria Knight, Christopher RK Ching, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). **ENIGMA-ODS: A Platform for Global Neuroscience Collaborations in the ENIGMA Consortium, submitted to SOBP 2018, New York, May 2018.**

1061. Xiangzhen Kong¹; Premika Boedhoe²; ENIGMA-OCD Working Group³; Lianne Schmaal⁴; Simon E. Fisher^{1,5}; Paul M. Thompson⁶; Dan J. Stein⁷; Odile A. van den Heuvel²; Clyde Francks (2018). **Altered brain anatomical asymmetry in Obsessive-Compulsive Disorder: Preliminary findings from the ENIGMA Consortium, submitted to SOBP 2018, New York, May 2018.**

1062. **Willem B. Bruin**¹, Jonathan Shock², Rajat Thomas¹, Nynke Groenewold², Premika S.W. Boedhoe³, Paul Thompson⁴, Odile A. van den Heuvel³, Dan J. Stein², and Guido van Wingen¹ for the ENIGMA-OCD Consortium (2018). **Machine learning classification of obsessive-compulsive disorder using structural neuroimaging data: a benchmark for ENIGMA, submitted to SOBP 2018, New York, May 2018.**

1063. Brian M. O'Leary¹, Hong Xie¹, Rajendra A. Morey², Israel Liberzon³, Xin Wang^{1,3}, ENIGMA-PGC PTSD co-authors (2018). Development of cortical vertex-based mega-analysis to study brain abnormalities in PTSD, **ISTSS 2018**.

1064. Axel Sylvain Jeremie Montagne, Mikko Tuomas Huuskonen, Samuel R Barnes, Madelaine Daianu, Krupal Shah, Jacob Prince, Paul Thompson, Russell Jacobs, Berislav Zlokovic (2018). *Magnetic Resonance Imaging of White Matter Neurovascular Dysfunctions in the Mouse Brain, submitted to World Molecular Imaging Congress, Seattle, USA, 2018.*

1065. Agnes B. McMahon, Daniel Garijo, Ryan Espiritu, Faisal Rashid, Varun Ratnakar, Yolanda Gil, Paul M. Thompson, & Neda Jahanshad (2018). **ENIGMA-ODS: A Platform for Global Neuroscience Collaborations in the ENIGMA Consortium, submitted to INCF 2018, Montreal, Canada.**

1066. Villalon Reina JE, Martinez K, Thompson PM, Bearden C, for the ENIGMA 22q Working Group (2018). Diffusion Tensor Imaging reveals highly atypical white matter in 22q11.2 Deletion Syndrome: Meta- and mega-analysis findings of the ENIGMA consortium, **40th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'18), Honolulu, HI, USA, July 17-21, 2018.**

WCPG 2018

1067. Sourena Soheili-Nezhad, Neda Jahanshad, Emma Sprooten, Christian F. Beckmann, Afsaneh Tajer, Sebastian Guelfi, Reza Khosrowabadi, Andrew J. Saykin, Paul M. Thompson, Mojtaba Zarei (2018). Genome-wide sequencing and data-driven neuroanatomical MRI analysis suggests SHARPIN missense SNP for Alzheimer's disease. WCPG 2018, submitted.
1068. **Watsamon** Jantarabenjakul,1,2 Jesdaporn Srisamer,2 Tuangtip Theerawit,2 Jiratchaya Sophonphan,3 Montida Veeravigom,1 Weerasak Chonchaiya,1 Thanyawee Puthanakit,1,2 Jintanat Anantaworanich,4,5 Neda Jahanshad,6 Paul M. Thompson,6 Kathleen Malee,7 Chitsanu Pancharoen,1,2 on behalf of DOET study (2018). **Neurodevelopmental and behavioral outcomes in perinatally HIV infected children who initiated antiretroviral therapy within 3 months of age**, AIDS conference and PED workshop in Amsterdam, the Netherlands (19-27 July 2018).

SFN 2018

1069. **Dennis EL**, Caeyenberghs K, Babikian T, Olsen A, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2018). ENIGMA Pediatric msTBI: Preliminary Results from Meta-Analysis of Diffusion MRI. *Society for Neuroscience*: San Diego, CA.
1070. **Dennis EL**, Caeyenberghs K, Babikian T, Olsen A, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2018). ENIGMA Pediatric msTBI: Framework and Single Site Results. *NeuroTrauma 2018*: Toronto.
1071. **Dennis EL**, Wilde EA, Newsome MR, Scheibel RS, Troyanskaya M, Velez C, Wade BSC, Drennon A, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen B, Belanger H, Levin HS, Hinds SR, Walker WC, Thompson PM, Tate DF (2018). ENIGMA Military Brain Injury: Framework and Preliminary dMRI Meta-Analysis. *NeuroTrauma 2018*: Toronto.
1072. **Dennis EL**, Wilde EA, Scheibel RS, Troyanskaya M, Velez C, Wade BSC, Drennon AM, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen B, Belanger H, Morey R, Haswell C, Newsome MR, Levin HS, Hinds II SR, Walker WC, Thompson PM, Tate DF (2018). Altered White Matter Organization after Military Brain Injury: Preliminary Results from the ENIGMA Military Brain Injury Group. *Federal Interagency Conference on Traumatic Brain Injury*: Washington DC. **Selected as Platform talk.**

ACNP 2018

1073. Tiffany C. Ho (1,2), Boris Gutman (3), Elena Pozzi (4,5), Hans Grabe, Katharina Wittfeld, Udo Dannlowski, Bernhard Baune, Axel Krug, Tilo Kircher, Dick Veltman, Henrik Walter, Ilya Veer, Ian H. Gotlib, Matthew D. Sacchet, Nynke Groenewold, Andre Aleman, Martin Walter, Meng Li, Neda Jahanshad (a), Paul M. Thompson (a), Philipp G. Sämann, Lianne Schmaal (4,5) (2018). **Subcortical shape alterations in major depressive disorder: meta-analytic findings from the ENIGMA MDD Working Group, submitted to ACNP 2018, Aug. 9 2018.**

INS 2019

- 1074.Emily L. Dennis^{1,2}, Elisabeth A. Wilde^{3-5,11}, Rajendra Morey¹⁵, Courtney Haswell¹⁵, **Paul M. Thompson**^{1,2,19}, Peter Kochunov²⁰, Neda Jahanshad¹, David F. Tate (2018). Neural Correlates of Depressive Symptoms after Brain Injury: Preliminary Results from the ENIGMA Military Brain Injury Group, submitted to INS 2019.
- 1075.Lauren E. Salminen¹, Alyssa H. Zhu¹, Brandalyn C. Riedel¹, Christopher R. K. Ching¹, Victoria Knight¹, Arvin Saremi¹, Faisal Rashid¹, Sophia I. Thomopoulos¹, Marc Harrison¹, Anjanibhargavi Ragothaman¹, Christina Boyle, Sarah E. Medland², Paul M. Thompson¹, Neda Jahanshad (2019). **Neuroimaging Correlates of Perinatal Smoke Exposure Later in Life: An Analysis of the UK Biobank Cohort, submitted Aug. 10 2018.**

ECNP 2019

- 1076.Jeanne Leerssen¹, Tessa F. Blanken¹, Elena Pozzi^{2,3}, Neda Jahanshad⁴,Lyubomir Aftanas^{5,6}, Bernhard T. Baune⁷, Udo Dannlowski⁸, Thomas Frodl^{9,10}, Beata R. Godlewska¹¹, Ian H. Gotlib¹², Dominik Grotegerd⁸, Oliver Gruber¹³, Sean N. Hatton¹⁴, Ian B. Hickie¹⁴, Benson Irungu¹⁵, Natalia Jaworska¹⁶, Tilo Kircher¹⁷, Axel Krug¹⁷, Jim Lagopoulos^{14,18}, Meng Li¹⁹, Frank P. MacMaster^{16,20}, Andrew M. McIntosh^{21,22}, Evgeny Osipov²³, Maria J. Portella^{24,25}, Matthew D. Sacchet²⁶, Philipp G. Saemann²⁷, Egle Simulionyte¹³, Jair C. Soares²⁸, Martin Walter²⁹, Heather C. Whalley²¹, Dick Veltman^{30,31,32}, Paul M. Thompson⁴, Lianne Schmaal^{3,34}, Eus J.W. van Someren (2019). **Brain structural correlates of insomnia severity in 1053 individuals with Major Depressive Disorder: Results from the ENIGMA Major Depressive Disorder Working Group, submitted to ECNP 2019.**

SOBP 2019

- 1077.Lauren E. Salminen, Mark W. Logue, Emily C. Clark, Emily L. Dennis, Eugenio Iglesias, Jasmeet Hayes, Soraya Seedat, Steven E. Bruce, Christopher D. Whelan, Neda Jahanshad, **Paul M. Thompson**, and Rajendra A. Morey for the PGC-ENIGMA PTSD Working Group (2019). Hippocampal Subfield Volumes Relate to Unique Phenotypes of PTSD: International Analysis by the PGC-ENIGMA PTSD Working Group, submitted to **SOBP 2019**, Chicago, USA.
- 1078.Emily L. Dennis, Negar Fani, Seth Disner, Lauren Salminen, **Paul M. Thompson**, Peter Kochunov, Neda Jahanshad, and Rajendra A. Morey for the PGC-ENIGMA PTSD Working Group (2019). Lower White Matter Integrity in PTSD: Results from the PGC-ENIGMA PTSD Working Group, submitted to **SOBP 2019**, Chicago, USA.
- 1079.Sonja MC de Zwarte, Rachel M Brouwer, Christopher RK Ching, Ole A Andreassen, Theo GM van Erp, Jessica A Turner, Paul M Thompson, René S Kahn, Neeltje EM van Haren, for the ENIGMA Relatives Working Group (2019). ENIGMA-Relatives: the association between familial risk for schizophrenia or bipolar disorder and brain abnormalities, submitted to **SOBP 2019**, Chicago, USA.
- 1080.Tiril P Gurholt, Unn K Haukvik, Stener Nerland, Paul M Thompson, Christopher Ching, Ole Andreassen, Ingrid Agartz for the ENIGMA Bipolar Disorder Working Group (2019). In vivo hippocampal subfield volumes in bipolar disorder – a multisite ENIGMA mega-approach, submitted to **SOBP 2019**, Chicago, USA.

AAN 2019

- 1081.Emily L. Dennis^{1,2,3,4}, Elisabeth A. Wilde^{5-7,13}, Artemis Zavaliangos-Petropulu³, Mary R. Newsome^{5,6}, Randall S. Scheibel^{5,6}, Maya Troyanskaya^{5,6}, Carmen Velez⁸, Benjamin S.C. Wade^{8,9}, Ann Marie Drennon¹⁰, Gerald E. York¹¹, Erin D. Bigler¹², Tracy J. Abildskov¹², Brian A. Taylor^{5,6,13}, Carlos A. Jaramillo¹⁴, Blessen Eapen¹⁴, Heather Belanger^{15,16}, Rajendra Morey¹⁷, Courtney Haswell¹⁷, Inga Koerte¹, Martha E. Shenton¹, Harvey S. Levin^{5,6}, Sidney R. Hinds II¹⁸, William C. Walker^{10,19,20}, Paul M. Thompson^{3,21}, David F. Tate^{7,8} (2019). ENIGMA Military Brain Injury: Altered Subcortical Volume Revealed by Mega-Analysis, submitted to **AAN 2019**.

ISTSS 2019

1082. BM O'Leary, H Xie, CG Abdallah2KM Angstadt3JT Baker4E Clarke5SL Davis5MD De Bellis6EL Dennis7H Gomaa2A Gönenc4E Gordon8SA Gruber4D Grupe9I Harpaz-Rotem2CC Haswell5B Hosseini10N Jahanshad7T Jovanovic11ML Kaufman4AP King3JH Krystal2LAM Lebois4I Levy12G May8KA McLaughlin13MAB McMahan7RA Morey6SM Nelson8LK O'Connor14M Peverill15L Phan10KJ Ressler4K Sambrook15M Shenton16MA Sheridan17BC Skilliter1M Stein18JS Stevens11M Tamburrino1PM Thompson7SJH van Rooij11SR Winternitz4EJ Wolf19JD Wolff4K Wrocklage2X Zhu20E Andrew21RA Bryant22MS Korgaonkar21A Hudson23S Mueller23L Wang24Y Zhu24DB Hofmann25A Manthey26A Sierk26JK Daniels27MB de Ruiter28E Dorrepaal28N Draijer28JL Frijling29E Geuze30J Herzog31SBJ Koch29L Nawijn29M Olff29JH Smit28K Thomaes28AJ van Balkom28NJA van der Wee32SJA van der Werff32M van Zuiden29T Varkevisser30DJ Veltman28RRJM Vermeiren32J Ipser33S Koopowitz33D Stein33I Liberzon3X Wang1 (2019). Development of cortical vertex-based mega-analysis to study brain abnormalities in PTSD, submitted to **International Society for Traumatic Stress Studies (ISTSS)**.

ISMRM 2019

- 1083.Julio E. Villalon-Reina, Talia M. Nir, Neda Jahanshad, Christopher R.K. Ching, Ariana Vajdi, Amy Lin, Leila Kushan, Carrie E. Bearden, **Paul M. Thompson** (2019). Watson vs. Bingham Distributions in NODDI measures of Brain Microstructure in Individuals with Chromosome 22q11.2 copy number variants, submitted to **ISMRM 2019**, Montreal, 2019.
- 1084.Emily L. Dennis, Ananya Singh, Conor K. Corbin, Neda Jahanshad, Tiffany C. Ho, Lucy S. King, Lauren R. Borchers, Kathryn L. Humphreys, **Paul M. Thompson**, Ian H. Gotlib (2019). Associations Between Maternal Depression and Infant Fronto-Limbic Connectivity, submitted to **ISMRM 2019**, Montreal, 2019.
- 1085.Elizabeth Haddad, Daniel C. Moyer, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2019). **Refining microstructural associations with age in thalamic projections by removing contamination from vasculature**, submitted to **ISMRM 2019**, Montreal, 2019.

SIRS 2019

- 1086.Mathilde Antoniadou¹, Alex Fornito, Melissa Green, Christos Pantelis, Pamela DeRosse, Martin Debbane, Igor Nenadic, Christian Gaser, Bianca Besteher, Matthias Kirschner, Stefan Keiser, Iris Sommer, Kelly Diederer, Jan-Bernard Marsman, Veena Kumari, Raymond Chan, Yann Quide, Wulf Rössler, Haeme Park, Irina Lebedeva, Anne Fett, Theo van Erp, Jessica Turner, André Aleman, Paul M. Thompson, Gemma Modinos^{1,2}, for the ENIGMA Schizotypy Working Group* (2019). **Relationship**

Between Schizotypy and Subcortical Brain Volumes in 1084 Individuals via the ENIGMA consortium, SIRS 2019.

INSAR 2019

1087. Ida Elken Sønderby, Dennis van der Meer, Bragi Walters, Srdjan Djurovic, Ingrid Agartz, Lars Tjelta Westlye, Sebastien Jacquemont, Hreinn Stefansson, Paul Thompson, Ole Andreassen; for the ENIGMA-CNV working group (2019). **ENIGMA-CNV: Unraveling the Effects on Brain Structure of Rare Copy Number Variants Involved in Autism and Other Neurodevelopmental Diseases**, submitted to INSAR 2019.

OHBM 2019 (29 abstracts; 14 ENIGMA-related, 15 IGC):

1088. Boyle CP, Ching CRK, Thomopoulos SI, Zavaliangos-Petropulu A, Mezher A, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Thompson PM, for ADNI (2019). Brain aging assessed with longitudinal magnetic resonance imaging (MRI): effects of scanner vendor changes, **OHBM 2019**, Rome, Italy, submitted.

1089. Ding L, Jansen P, Zhu A, Bright J, Thompson PM, Posthuma D, Van Someren E, Jahanshad N (2019). Mapping shared genetic risk for Parkinson's Disease & Insomnia to the Human Brain in UK Biobank, **OHBM 2019**, Rome, Italy, submitted.

1090. Guo L, Tang H, Wang Q, Huang H, Zhu D, Ajilore O, Thompson PM, Leow AD, Zhan L (2019). Abnormal modular structure in the Alzheimer's brain, **OHBM 2019**, Rome, Italy, submitted.

1091. Haddad E, Moyer DC, Zhu AH, Thompson PM, Jahanshad N (2019). Adjusting for vascular contamination in DWI studies of white matter microstructure with SWI, **OHBM 2019**, Rome, Italy, submitted.

1092. Kothapalli D, Tubi MA, Corlier FW, Thomopoulos SI, Thompson PM, Jahanshad N, Braskie MN. Interactive Tool for Visual Quality Control of Cortical Parcellations. **OHBM 2019**, Rome, Italy, submitted.

1093. Moyer DC, Ver Steeg G, Tax C, Thompson PM (2019). Scanner Invariant Representations, **OHBM 2019**, Rome, Italy, submitted.

1094. Nir TM, Villalon-Reina JE, Thomopoulos SI, Zavaliangos-Petropulu A, Reid RI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Jahanshad N, Thompson PM, for ADNI (2019). Comparing NODDI Implementations for Evaluating Brain Microstructure with ADNI3 Diffusion MRI, **OHBM 2019**, Rome, Italy.

1095. Pizzagalli F, Thomopoulos SI, Auzias G, Mangin JF, Riviere D, Kochunov P, Thompson PM, Jahanshad N and the Alzheimer's Disease Neuroimaging Initiative (2019). Sulcal morphometry as a predictor of conversion from MCI to AD in ADNI, **OHBM 2019**, Rome, Italy.

1096. Tang H, Guo L, Huang H, Ajilore O, Dodge H, Thompson PM, Leow AD, Zhan L (2019). Graph mining on aging using brain structural networks, **OHBM 2019**, Rome, Italy, submitted.

- 1097.Villalon-Reina JE, Nir TM, Jahanshad N, Kushan L, Ching CRK, Bearden CE, Thompson PM. Cortico-cortical vs Corticospinal Tract differences in 22q11.2 Deletion syndrome: A Fixel-based Analysis. **OHBM 2019**, Rome, Italy, submitted.
- 1098.Yang Q, Thomopoulos SI, Ding LY, Surento W, Thompson PM, Jahanshad N (2019). Autoregressive Mixed Models of Longitudinal Brain Changes, Cognition and Genetics in ADNI, **OHBM 2019**, Rome, Italy, submitted.
- 1099.Zavaliangos-Petropulu A, Jahanshad N, Thompson PM, Liew S-L (2019). Evaluating Stroke Lesion Overlap with Subcortical Structures and Post-Stroke Motor Performance, **OHBM 2019**, Rome, Italy, submitted.
- 1100.Zavaliangos-Petropulu A, Nir TM, Thomopoulos SI, Reid RI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Jahanshad N, Thompson PM, for ADNI (2019). Comparing Harmonization Approaches across ADNI3 Diffusion MRI Protocols, **OHBM 2019**, Rome, Italy.
- 1101.Zhu A, Salminen LE, Thompson PM, Jahanshad N (2019). BioParser: A UK Biobank data parser with built in and customizable filters for brain studies, **OHBM 2019**, Rome, Italy, submitted.
- 1102.Adhikari BM, Dukart J, Hipp J, Forsyth A, McMillan R, Muthukumaraswamy S, Hong LE, Neda Jahanshad N, Thompson PM, Rowland LM, Kochunov P (2019). Evaluating Effects of Ketamine and Midazolam using ENIGMA Resting State MRI Pipeline, **OHBM 2019**, Rome, Italy, submitted.
- 1103.Antoniades M, Arnatkevičiūtė A, Fornito A, Green M, Pantelis C, Quide Y, DeRosse P, Moyett A, Debbané M, Derome M, Nenadic I, Gaser C, Besteher B, Meller T, Kirschner M, Kaiser S, Sommer I, Diederer K, Spencer T, Koops S, Marsman JB, Kumari V, Chan R, Rössler W, Smigielski L, Park H, Wiebels K, Lebedeva I, Tomyshev A, Fett AK, Gilleen J, Grotegerd D, Kircher T, Krug A, Ettinger U, Dagher A, Dannlowski U, Baune B, Lemmers I, van Erp TGM, Turner JA, Thompson PM, Aleman A, Modinos G (2019). Subcortical Brain Volumes in Schizotypy Assessed in a Worldwide ENIGMA Study, **OHBM 2019**, Rome, Italy, submitted.
- 1104.Bornstein M, Nir TM, Thompson PM, Jahanshad N (2019). DTI vs. TDF derived fractional anisotropy in identifying white matter change in Parkinson's disease, **OHBM 2019**, Rome, Italy, submitted.
- 1105.Brouwer RM, Klein M, Jahanshad N, Grasby KL, Medland SE, Franke B, Thompson PM, Hulshoff Pol HE, for the ENIGMA Plasticity Working Group (2019). Genetic markers for brain plasticity, **OHBM 2019**, Rome, Italy, submitted.
- 1106.Brouwer R, Thompson PM, Frangou S, Desrivières S, Jahanshad N (2019). The ENIGMA World Aging Center: a global brain study of biological predictors of aging, **OHBM 2019**, Rome, Italy, submitted (symposium).

1107. Dennis EL, Caeyenberghs K, Babikian T, Olsen A, Levin H, Giza CC, Asarnow RF, Kochunov P, Jahanshad N, Thompson PM, Tate D, Wilde E (2019). ENIGMA Pediatric Moderate/Severe TBI: Preliminary DTI Analysis, **OHBM 2019**, Rome, Italy, submitted.
1108. Dennis EL, Wilde EA, Velez C, Troyanskaya M, Haswell C, Bouchard H, Newsome MR, Scheibel RS, Zavaliangos-Petropulu A, Wade BSC, Drennon AM, York GE, Bigler ED, Abildskov TJ, Taylor BA, Jaramillo CA, Eapen BC, Belanger H, Disner S, Franz C, Kremen W, Gueze E, Kenney K, Ollinger J, Bonavia G, Morey R, Adamson MM, Kang X, Koerte I, Shenton ME, Levin HS, Hinds II SR, Walker WC, Kochunov P, Jahanshad N, Thompson PM, Tate DF (2019). ENIGMA Military Brain Injury: DTI Meta-Analysis, **OHBM 2019**, Rome, Italy, submitted.
1109. Favre P, Duchesnay E, Houenou J, for the ENIGMA Bipolar Disorder Working Group. Subgrouping Patients with Bipolar Disorder Based on DTI Data: Relationship with Clinical Dimensions. **OHBM 2019**, Rome, Italy, submitted.
1110. Haukvik UK, Gurholt TP, Nerland S, Thompson PM, Ching CRK, Andreassen OA, Agartz I, for the ENIGMA Bipolar Disorder Working Group. In vivo hippocampal subfield volumes in bipolar disorder – a multisite ENIGMA mega-approach. **OHBM 2019**, Rome, Italy, submitted.
1111. Kong X, Boedhoe PSW, ENIGMA-OCD Working Group, Thompson PM, Stein DJ, van den Heuvel OA, Francks C (2019). Mapping Cortical and Subcortical Asymmetry in OCD: Findings from the ENIGMA Consortium, **OHBM 2019**, Rome, Italy, submitted.
1112. Postema MC, van Rooij D, ENIGMA ASD Working Group, Thompson PM, Fisher SE, Buitelaar JK, Francks C for the ENIGMA Laterality Working Group (2019). Altered structural brain asymmetry in autism spectrum disorder: a large-scale analysis via the ENIGMA Consortium, **OHBM 2019**, Rome, Italy, submitted.
1113. Ryan MC, Jahanshad N, Thompson PM, Hong LE, Kochunov P (2019). ENIGMA Schizophrenia DTI findings: Replicating & Explaining Cognitive Deficit & Treatment Resistance, **OHBM 2019**, Rome, Italy, submitted.
1114. van der Meer D[#], Sønderby I[#], Kaufmann T, Djurovic S, Agartz I, Westlye L, Thompson PM, Andreassen OA for the ENIGMA-CNV working group (2019). Updates from the ENIGMA-CNV working group: 15q11.2 structural variants influence cortical morphology, **OHBM 2019**, Rome, Italy, submitted.
1115. van der Werf YD, Bright J, Laansma M, Gutman B, Rummel C, Debove I, Rocha C, Yasuda C, Poston K, Wiest R, Cendes F, Van den Heuvel OA, Galli R, Piras F, Spalletta G, Druzgal J, Barrett M, Pitcher T, Melzer T, al-Bachari S, Parkes L, de Bie R, Rango M, McMillan C, Jahanshad N, Thompson P (2019). International mega-analysis of cortical and subcortical morphometry in Parkinson's Disease: ENIGMA-PD, **OHBM 2019**, Rome, Italy, submitted.

ADPD Conference 2019

1116.L. Ding¹, A. Zhu¹, [M. Bornstein](#)¹, P. Thompson¹, N. Jahanshad (2019). **THE ASSOCIATION BETWEEN GENOME-WIDE RISK FOR PD AND CORTICAL STRUCTURE IN UK BIOBANK**, submitted to the ADPD Conference 2019, Lisbon, Portugal.

ESHG 2019

1117. Gennady V Roshchupkin^{1,2}, M. Arfan Ikram^{3,2,4}, Katharina Wittfeld^{5,6}, Marcel Zwiers⁷, Neda Jahanshad^{*8}, Alexander Teumer⁹, Paul M. Thompson⁸, Barbara Franke^{7,10}, Hans J. Grabe⁶, Wiro J. Niessen^{1,2,11}, **Hieab H.H. Adams**^{3,2,12}. (2019). **One and a half million genome wide-association studies of brain morphometry: a proof-of-concept study**, submitted to ESHG 2019, Feb. 14 2019.

SFN 2019 (13 abstracts)

1118.Ding L, Thompson PM, Jahanshad N (2019). Mapping Combined Genetic Risk for Bipolar Disorder and Schizophrenia to the Human Brain in UK Biobank, **SFN 2019**, Chicago, Oct. 19-23 2019.

1119.Villalon Reina JE, Nir TM, Jahanshad N, Kushan L, Bearden CE, Thompson PM (2019). Myelin and G-ratio Imaging in 22q11.2 Deletion Syndrome: A Pilot Study, **SFN 2019**, Chicago, Oct. 19-23 2019.

1120.Bright J, Ding L, Bornstein M, van der Werf YD, Laansma MA, Thompson PM, Jahanshad N (2019) Polygenic risk for Parkinson's disease in unaffected individuals associates with microstructure of disease-related white matter regions, **SFN 2019**, Chicago, Oct 19-23 2019.

1121.Tubi M, Hapenny M, King K, Riedel BC, Mack W, Thompson PM, Braskie MN (2019). [Cardiovascular risk modifies the relationship of VEGF to cognition and regional glucose metabolism in Alzheimer's disease](#), **SFN 2019**, Chicago, Oct 19-23 2019.

1122.Thomopoulos SI, Nir TM, Villalon-Reina JE, Haddad E, Jahanshad N, Reid RI, Bernstein MA, Borowski B, Jack CR Jr, Weiner MW, Thompson PM (2019). Detection of aging effect on white matter microstructure: A comparison of diffusion MRI preprocessing pipelines, **SFN 2019**, Chicago, Oct. 19-23 2019.

1123.Kothapalli D, Tubi MA, Thomopoulos SI, Aganj I, Sweeney MD, Wang X, Schneider LS, Joe EB, Ringman JM, Yassine H, Harrington MG, Zlokovic BV, Toga AW, Chui HC, Thompson PM, **Braskie MN** (2019). Automated Measurement of Medial Temporal Lobe Subregion Thickness using Minimum Line Integrals. **SFN 2019**, Chicago, Oct. 19-23 2019.

1124.Zavaliangos-Petropulu A, B. BIGJAHAN², M. R. BORICH³, T. R. BROWN⁴, C. M. BUETEFISCH⁴, W. D. BYBLOW⁵, S. C. CRAMER⁷, A. DULA⁸, K. GILL², A. GOUD¹⁰, D. H. HWANG², N. KHOSHAB¹², H. KIM¹³, A. KUCEYESKI¹⁴, C. E. LANG¹⁵, M. LOTZE¹⁶, B. J. MACINTOSH¹⁷, A. RAMOS-MURGUIALDAY¹⁸, A. D. ROBERTSON¹⁹, P. ROBERTS¹¹, M. S. SHIROISHI², C. M. STINEAR⁶, R. C. CRADDOCK⁹, K. A. WONG²⁰, G. THIELMAN²¹, N. S. WARD²², G. F. WITTENBERG²³, N. JAHANSHAD¹, P. M. THOMPSON¹, S.-L. LIEW (2019). [Ipsilesional hippocampal volume is directly associated with motor performance in chronic stroke patients: An ENIGMA stroke recovery analysis](#), **SFN 2019**, Chicago, Oct. 19-23 2019.

1125. Zhu A, Thompson PM, Jahanshad N (2019). [Family history of suicide may have a sex-specific effect on brain structure in adolescents](#), **SFN 2019**, Chicago, Oct. 19-23 2019.
1126. Pizzagalli F, Gadewar PS, Thomopoulos SI, Yang Q, Kochunov P, Thompson PM, Jahanshad N (2019). Classification of Alzheimer's Disease patients using MRI-based cortical phenotyping 1 and 2 years before dementia onset, **SFN 2019**, Chicago, Oct. 19-23 2019.
1127. Boyle C, Ching CRK, Thomopoulos SI, Zavaliangos-Petropulu A, Mezher A, Thompson PM (2019). Inflammatory markers related to liver function predict longitudinal brain atrophy, **SFN 2019**, Chicago, Oct. 19-23 2019.
1128. Ching CRK, Thompson PM, Bearden CE, and the ENIGMA 22Q11.2 Deletion Syndrome Working Group (2019). A genetics-first approach to understanding mechanisms of psychiatric disorders: subcortical alterations in 22q11.2 deletion syndrome and convergence with idiopathic neuropsychiatric illness, **SFN 2019**, Chicago, Oct. 19-23 2019.
1129. Ba Gari I, Surento W, Zhu A, Thompson PM, Jahanshad N (2019). Age associations with choroid-plexus calcification volumes defined by quantitative susceptibility mapping, **SFN 2019**, Chicago, Oct. 19-23 2019.
1130. Surento W, Ba Gari I, Sun Z, Kim H, Thompson PM, Cayabyab R, Shiroishi M, Jahanshad N (2019). Brain volume estimates from clinical MRIs of premature and severely underweight infants acquired in the neonatal ICU may help predict neurodevelopment, **SFN 2019**, Chicago, Oct. 19-23 2019.

EMBC 2019

1131. Villalon Reina JE, Nir TM, Jahanshad N, Kushan L, Bearden CE, Thompson PM (2019). Altered Intracellular Volume Fraction and Neurite Dispersion in People with Chromosome 22q11.2 Copy Number Variants. Accepted to the Engineering in Medicine and Biology Conference (EMBC). Berlin, Germany, July 23-27, 2019.

Frontiers in TBI (Traumatic Brain Injury) Conference 2019

1132. Virginia Conde¹, Emily L. Dennis^{3,4}, John André Nebb Ek¹, Agustin Petroni¹, Kari Anne I. Evensen^{5,6}, Torun Finnanger⁹, Paul M. Thompson, Anne Vik^{7,8}, Toril Skandsen, Asta Håberg, Alexander Olsen^{1,2} (2019). **The clinical and functional significance of Rich Club graph metrics in chronic moderate to severe traumatic brain injury**, **Frontiers in TBI (Traumatic Brain Injury) Conference 2019**.

1133. Artemis Zavaliangos-Petropulu, Neda Jahanshad, **Paul M. Thompson**, Sook-Lei Liew (2019). Corticospinal Tract Lesion Load and Motor Performance Measures Improve Hippocampal Volume Prediction Model in Chronic Stroke Patients, **ASNR 2019**.

IARC 2019

1134. Harding I, ..., ENIGMA Ataxia Consortium (2019). **Brain atrophy in Friedreich ataxia preferentially manifests in cerebellar and cerebral motor areas: Results from the ENIGMA-Ataxia consortium**, International Ataxia Research Conference, November 2019.

1135. Harding I, ..., ENIGMA Ataxia Consortium (2019). **The spatial distribution of cerebellar and brainstem structural abnormalities in SCA1, 2, 3, and 6 from the ENIGMA-Ataxia consortium**, International Ataxia Research Conference, November 2019.

INS 2020

1136. Lauren E. Salminen, Greg ver Steeg, Sophia I. Thomopoulos, Neda Jahanshad, **Paul M. Thompson (2020)**. **Information-Theoretic Clustering of Plasma and Imaging Measures in Aging, Mild Cognitive Impairment, and Alzheimer's disease**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1137. Joanna Bright, **Paul M. Thompson**, Neda Jahanshad and Lauren E. Salminen (2020). **Cortical Morphometry in Middle Aged and Older Adults with Histories of Substance Misuse**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1138. Sophia I. Thomopoulos, Christopher R. K. Ching, Christina P. Boyle, Adam Mezher, Artemis Zavaliangos-Petropulu, Talia M. Nir, Neda Jahanshad, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (2020). **Brain Amyloid Load is Associated with Faster Rates of Brain Atrophy in Normal Aging and Cognitive Impairment**, INS 2020, Denver, CO, USA, Feb. 2020 [accepted].

1139. Christina P. Boyle, Cyrus A. Raji, Kirk I. Erickson, Oscar L. Lopez, James T. Becker, H. Michael Gach, W. T. Longstreth, Jr., Mikhail Popov, Lewis Kuller, Owen T. Carmichael, **Paul M. Thompson (2019)**. **Non-specific estrogen therapy is associated with greater volume in brain regions implicated in Alzheimer's disease**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

1140. *Frank Hillary, David Tate, Elisabeth Wilde, Paul M. Thompson (2020)*. *Advancing precision medicine through data sharing, transparency, and open science: a decade of the ENIGMA initiative*, submitted to INS 2020, Denver, CO, USA, Feb. 2020 [Symposium].

1141. *Paul M. Thompson (2020)*. *ENIGMA, Big Data, and the Brain: Imaging and Genomics of 22 Brain Disorders in 80,000 Individuals from 43 Countries*, submitted to INS 2020, Denver, CO, USA, Feb. 2020 [Symposium presentation].

1142. Pradeep Lam, Daniel C. Moyer, Alyssa Zhu, Neda Jahanshad, **Paul M. Thompson (2020)**. **A Comparison of Deep Learning Methods for Brain Age Prediction**, submitted to INS 2020, Denver, CO, USA, Feb. 2020.

Rare Diseases Congress 2020

1143. Leyla Namazova-Baranova, George Karkashadze, Mikhail Belyaev, Anatoly Anikin, Kirill Savostyanov, Vladimir Smirnov, Anait Gevorkyan, Olga Komarova, Olga Gundobina, Nato Vashakmadze, Andrey Surkov, Magda Karkashadze, Andrey Getman, Alexandr Pushkov, Anna Veselova, Dmitry Kapilushniy, Tina Gogberashvili, Goar Movsisyan, Liliya Osipova, Julia Ermolina, Tatiana Konstantinidi, Anastasia Solovieva, Alexey Firumyants, Ekaterina Khrameeva, Boris A. Gutman, Vladimir L. Zelman, Paul M. Thompson, Alexandr Baranov

(2020). Abnormalities in the cerebral cortex in Gaucher disease type 1: findings from the ENIGMA Storage Disease working group, **Rare Diseases Congress 2020**, Barcelona, Spain, July 2020.

CROI 2020

1144. Mollie A. Monnig, Peter M. Monti, Karen Tashima, Joseph M. Gullett, Eric Porges, Neda Jahanshad, Paul Thompson, Talia Nir, and Ronald A. Cohen (2020). Alcohol Use Is Associated with Degradation of Brain White Matter in HIV Infection, CROI 2020.

ADPD 2020

1145. Laansma, M; Bright, Joanna; Harmsen, Mathijs; Gutman, Boris; Ching, Christopher RK; Rummel, Christian; Wiest, Roland; Debove, Ines; Piras, Fabrizio; Spalletta, Gianfranco; Yasuda, Clarissa; Cendes, Fernando; van den Heuvel, Odile; Al-Bachari, Sarah; Parkes, Laura; McMillan, Corey; Jahanshad, Neda; Thompson, Paul; van der Werf, Ysbrand (2020). Bidirectional Changes in Subcortical Shape Derived Local Thickness Measures: an ENIGMA-Parkinson's Disease Mega-Analysis (N=1649), ADPD 2020, Vienna, April 2-5 2020.

1146. Pradeep Lam, Daniel C. Moyer, Alyssa Zhu, Neda Jahanshad, **Paul M. Thompson** (2020). Comparison of Deep Learning Methods for Brain Age Prediction, ADPD 2020, Vienna, April 2-5 2020.

1147. Sophia I. Thomopoulos, Christopher R. K. Ching, Christina P. Boyle, Adam Mezher, Artemis Zavaliangos-Petropulu, Talia M. Nir, Neda Jahanshad, **Paul M. Thompson**, for the Alzheimer's Disease Neuroimaging Initiative (2020). Brain Amyloid Load is Associated with Faster Rates of Brain Atrophy in Normal Aging and Cognitive Impairment, **2nd AAT-ADPD™ Focus Meeting 2020**, Vienna, Austria, April 2-5 2020.

1148. T. Nir¹, J. Villalon-Reina¹, S. Thomopoulos¹, R. Reid², M. Bernstein², B. Borowski³, C. Jack Jr³, M. Weiner⁴, N. Jahanshad¹, P. Thompson (2020). THE DIFFUSION MEAN APPARENT PROPAGATOR REVEALS DIFFERENTIAL PATTERNS OF WHITE MATTER MICROSTRUCTURAL ABNORMALITIES IN COGNITIVELY IMPAIRED AND AMYLOID POSITIVE INDIVIDUALS, **2nd AAT-ADPD™ Focus Meeting 2020**, Vienna, Austria, April 2-5 2020.

INTS 2020

1149. Emily L Dennis^{1,2}, Karen Caeyenberghs³, Robert F Asarnow⁴⁻⁶, Talin Babikian^{4,7}, Brenda Bartnik-Olson⁸, Erin D Bigler^{1,9,10}, Anthony Figaji^{11,12}, Christopher C Giza^{7,13}, Naomi J Goodrich-Hunsaker^{1,9,14}, Cooper B Hodges^{1,9,14}, Kristen Hoskinson^{15,16}, **Marsh Königs**, Harvey Levin^{17,18}, Hannah M Lindsey^{1,9,14}, Abigail Livny^{19,20}, Jeffrey E Max^{21,22}, Tricia Merkley⁹, Mary R Newsome^{17,18}, Alexander Olsen^{23,24}, Nicholas P Ryan^{3,25,26}, Matthew S Spruiell¹⁷, Stacy J Suskauer^{27,28}, Sophia Thomopoulos², Ashley L Ware²⁹, Christopher G Watson³⁰, Anne L Wheeler^{31,32}, Keith O Yeates^{29,33,34}, Brandon A Zielinski^{1,35}, Paul M Thompson^{2,36}, David F Tate^{1,14,37}, Elizabeth A Wilde (2020). **White Matter Disruption after Pediatric Moderate/Severe TBI: Results from the ENIGMA Pediatric mTBI Working Group, submitted to INTS 2020.**

ISMRM 2020

1150. Julio E. Villalon-Reina, Talia M. Nir, Sophia I. Thomopoulos, Lauren E. Salminen, Neda Jahanshad, Rutger Fick, Matteo Frigo, Rachid Deriche, Paul M. Thompson and ADNI (2020). Tracking microstructural biomarkers of Alzheimer's disease via advanced multi-shell diffusion MRI scalar measures, submitted to **ISMRM 2020**.

SIRS 2020

1151. Matthias Kirschner*, Benazir Hodzic-Santor*, Tilo Kircher, Axel Krug, Igor Nenadic, Alex Fornito, Melissa Green, Yann Quidé, Christos Pantelis, Udo Dannlowski, Dominik Grotegerd, Pamela DeRosse, Raymond Chan, Martin Debbane, Wulf Rössler, Irina Lebedeva, Haeme Park, Kristina Wiebels, Mathilde Antoniades, Jan-Bernard Marsman, James Gilleen, Anne Fett, Theo G. M. van Erp, Jessica A. Turner, Paul M. Thompson, Andre Aleman, Gemma Modinos, Stefan Kaiser*, Alain Dagher* for the ENIGMA Schizotypy Working Group (2020). Thicker prefrontal cortex is associated with subclinical negative symptoms in schizotypy - an ENIGMA consortium meta-analysis, submitted to SIRS 2020.
1152. Sonja de Zwarte, Rachel Brouwer, Rene Kahn, Theo G. M. van Erp, Jessica A. Turner, Ole A. Andreassen, Christopher R.K. Ching, Neda Jahanshad, Paul M. Thompson, Neeltje van Haren, ENIGMA-Relatives (2020). The effect of intelligence and educational attainment on the brain in those with familial high risk for schizophrenia or bipolar disorder: an ENIGMA-Relatives study, submitted to SIRS 2020.
1153. Modinos G and the ENIGMA Schizophrenia Schizotypy Working Group (2020). Cortical Neuroanatomical Signature of Schizotypy in 2,695 Individuals Assessed in a Worldwide ENIGMA Study, submitted to SIRS 2020.

SOBP 2020

1154. Paul M. Thompson and the ENIGMA Consortium (2020). ENIGMA and Global Neuroscience: A Decade of Large-Scale Studies of the Brain in Health and Disease across More than 40 Countries, SOBP 2020 (part of accepted symposium by Yogesh Rathi and Martha Shenton).
1155. Rajendra Morey, Lauren Salminen, Xin Wang, Emily L. Dennis, Mark Logue, Delin Sun, Gopalkumar Rakesh, Emily Clarke, Ashley N Clausen, Neda Jahanshad, Paul Thompson and the ENIGMA-PGC PTSD Working Group (2020). Multisite ENIGMA and PGC Consortium Findings from Multimodal Neuroimaging of Posttraumatic Stress Disorder (PTSD), SOBP 2020 (Symposium Presentation).
1156. Ling-Li Zeng^{1,2}, Christopher R. K. Ching², Tomas Hajek³, Boris A. Gutman⁴, ..., Colm McDonald⁵, Dewen Hu¹, Paul M. Thompson² (2020). **Machine learning on vertex-wise brain shape metrics improves the diagnostic classification of bipolar disorders**, submitted to **SOBP 2020**.

1157. Bhim M. Adhikari^{1†}, L. Elliot Hong¹, J. J. Wang², Laura M. Rowland¹, Neda Jahanshad³, Paul M. Thompson³, Meghann C. Ryan¹, Katie Hatch¹, Chen Shou¹, Peter Kochunov (2020). **Genetic Control over Cerebral Blood Flow and Resting State Regional Homogeneity Signal**, submitted to **SOBP 2020**.
1158. Moreau C., Urchs S., Huguet G., Sharmarke H., Modenato C., Douard E., Dos Santos Silva A., Linden D., Thompson P.M., Lippe S., Bearden C., Maillard A., Bellec P.*, Jacquemont S.* (2020). **Functional Connectivity Analyses Suggest Shared Molecular Mechanisms across 12 Neuropsychiatric Mutations, Autism and Schizophrenia**, submitted to **SOBP 2020**.
1159. Pradeep Lam, Alyssa Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2020). Comparison of Deep Learning Methods for Brain Age Prediction, submitted to **SOBP 2020**.
1160. Rajendra A. Morey, Lea Waller, Aurelio Falconi, Courtney C. Haswell, Emily C. Clarke, Marc Büttner, Elena Pozzi, Yara Toenders, Neda Jahanshad, Paul M. Thompson, Lianne Schmaal, Ilya Veer (2020). ENIGMA resting-state fMRI pipeline with high-level analysis and support for large-scale multi-site consortium analyses. Submitted to **SOBP 2020 (Late Breaking Abstract)**.
1161. Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2020). **Altered White Matter Microstructure in Carriers of 16p11.2 Copy Number Variants**. Submitted to **SOBP 2020 (Late Breaking Abstract)**.
1162. **Mary S. Mufford**¹, Dennis van der Meer², Shareefa Dalvie³, Raj Ramesar¹, Paul M. Thompson⁵, Rajendra Morey^{6,7}, Ole' Andreassen², Dan J. Stein (2020). **Amygdala Nuclei: Heritability and Relationship with Posttraumatic Stress Disorder**, Submitted to **SOBP 2020 (Late Breaking Abstract)**.

RSA (Research Society on Alcoholism) 2020

1163. Mollie A. Monnig, Peter M. Monti, Karen Tashima, Joseph M. Gullett, Eric Porges, Neda Jahanshad, Paul Thompson, Talia Nir, and Ronald A. Cohen (2020). Alcohol Use and Inflammation Predict White Matter Abnormality in People Living with HIV Infection, RSA (Research Society on Alcoholism) 2020.

OHBM 2020 (23 abstracts)

1164. Artemis Zavaliangos-Petropulu, Meral A. Tubi, Elizabeth Haddad, Alyssa Zhu, Neda Jahanshad, Paul M. Thompson, Sook-Lei Liew (2020). Deep Convolutional Neural Network Approach Improves Hippocampal Segmentations in Stroke Population, **OHBM 2020**, Montreal, June 2020.

1165. Lauren E. Salminen, Fabrizio Pizzagalli, Alyssa H. Zhu, Talia M. Nir, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). *APOE4* genotype and air pollution interact to predict brain structure in healthy adults in UK Biobank, **OHBM 2020**, Montreal, June 2020.
1166. Joanna Bright, Alyssa H Zhu, Lauren E Salminen, Paul M Thompson, Neda Jahanshad (2020). White matter microstructural deficits in 364 adults with a history of suicide attempts, **OHBM 2020**, Montreal, June 2020.
1167. Christina P. Boyle, Cyrus A. Raji², Kirk I. Erickson³, Oscar L. Lopez⁴, James T. Becker^{3,4,5}, H. Michael Gach⁶, Lewis H. Kuller⁷, W. T. Longstreth, Jr⁸, Owen T. Carmichael⁹, Paul M. Thompson (2020). Brain aging, estrogen, and APOE genotype, **OHBM 2020**, Montreal, June 2020.
1168. Pradeep Lam, Alyssa H. Zhu, Lauren E. Salminen, Parth Suresh, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2020). Brain Age prediction from structural MRI using Deep Learning & Information-theoretic divergence measures, **OHBM 2020**, Montreal, June 2020.
1169. Ling-Li Zeng, Christopher R. K. Ching, Tomas Hajek, Boris A. Gutman, Sophia I. Thomopoulos, Dewen Hu, Jair Soares, Benson Irungu, David Glahn, Colm McDonald, Giulia Tronchin, Dara Cannon, Ingrid Agartz, Lars T. Westlye, Paul M. Thompson, Ole A. Andreassen, The ENIGMA Bipolar Disorder Working Group (2020). Multi-site bipolar disorder classification using subcortical shape morphometry, **OHBM 2020**, Montreal, June 2020.
1170. Moreau C., Huguet G., Urchs S., Sharmarke H., Modenato C., Kumar K., Douard E., Dos Santos Silva A., Linden D., Lippe S., Bearden C.E., Maillard A.M., Thompson P.M., Bellec P.*, Jacquemont S.* (2020). High-risk psychiatric mutations affect functional connectivity along parsimonious dimensions shared across genomic loci, **OHBM 2020**, Montreal, June 2020.
1171. Qifan Yang, Sophia I. Thomopoulos, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Genetic Associations in Diagnostic Specific Trajectories Revealed with Autoregressive Mixed Models, **OHBM 2020**, Montreal, June 2020.
1172. Talia M. Nir, Julio E. Villalon-Reina, Alyssa Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Meral A. Tubi, Piyush Maiti, Paul M. Thompson, Neda Jahanshad (2020). Hippocampal Microstructural Abnormalities in Cognitively Impaired and Amyloid Positive Individuals, **OHBM 2020**, Montreal, June 2020.
1173. Wesley Surento, Iyad Ba Gari, Zhe Sun, Joshua Boyd, Hosung Kim, Paul M. Thompson, Rowena G. Cayabyab, Mark S. Shiroishi, Neda Jahanshad (2020). Maternal Health Factors and Intracranial Hemorrhage Associations with Preterm Neonates' Brain Volume, **OHBM 2020**, Montreal, June 2020.

1174. Iyad Ba Gari, Shruti Gadewar, Wesley Surento, Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Age-related Choroid Plexus Calcification: Associations with subcortical brain volumes and hypertension, **OHBM 2020**, Montreal, June 2020.
1175. Alyssa H. Zhu, Paul M. Thompson, Neda Jahanshad (2020). Sex specific neurodevelopmental associations with maternal and paternal history of suicide in ABCD, **OHBM 2020**, Montreal, June 2020.
1176. Elizabeth Haddad, Alyssa H Zhu, Shruti Gadewar, Iyad Ba Gari, Pradeep Lam, Talia M Nir, Paul M Thompson, Neda Jahanshad (2020). Identifying lifestyle factors that promote brain resilience in carriers of two ApoE4 risk variants, **OHBM 2020**, Montreal, June 2020.
1177. Max Laansma, Joanna Bright, Boris Gutman, Christian Rummel, Ines Debove, Cristiane Rocha, Clarissa Yasuda, Kathleen Poston, Roland Wiest⁹, Fernando Cendes⁷, Odile A. van den Heuvel¹, Chris Vriend¹, Henk W. Berendse¹, Fabrizio Piras¹⁰, Gianfranco Spalletta¹⁰, Jason Druzgal¹¹, Jamie Blair¹¹, Toni Pitcher¹³, Tracy Melzer¹³, Sarah Al-bachari¹⁴, Laura Parkes¹⁴, Hedley Emsley¹⁴, Rob de Bie¹, Mario Rango¹⁵, Corey McMillan¹⁶, Petra Swingenschuh¹⁷, Reinhold Schmidt¹⁷, Juin-Jie Wang¹⁸, Johannes Klein¹⁹, Claire Mackay¹⁹, Gaëtan Garraux²⁰, Katherine Baquero Duarte²⁰, Rick Helmich²¹, Bas Bloem²¹, Neda Jahanshad², Paul M Thompson², Ysbrand D. Van der Werf¹ (2020). Mega-Analysis Shows Brain Structure Abnormalities in Parkinson's Disease Related to Disease Severity, **OHBM 2020**, Montreal, June 2020.
1178. Bhim M. Adhikari, L. Elliot Hong, Neda Jahanshad, Paul M. Thompson, Peter Kochunov (2020). Heritability estimates on rsfMRI phenotypes using the ENIGMA analysis pipeline, **OHBM 2020**, Montreal, June 2020.
1179. Heather C. Bouchard, Delin Sun^{1,2}, Emily L. Dennis^{3,4,5,6}, Seth G. Disner^{7,8}, Jeremy Elman^{9,10}, Annelise Silva¹¹, Carmen Velez^{3,4}, Mary R. Newsome^{12,13}, Maya Troyanskaya^{12,13}, Nicholas D. Davenport^{7,8}, Scott R. Sponheim^{7,8}, Randall S. Scheibel^{12,13}, Benjamin S.C. Wade^{14,15}, Carol E. Franz^{9,10}, William S. Kremen^{9,10,16}, Michael J. Coleman¹¹, Wright Williams, Harvey S. Levin^{12,13}, Elbert Geuze^{18,19}, Inga K. Koerte¹¹, Maheen M. Adamson, Raul Coimbra²², Gerald Grant, Lori Shutter²⁴, Mark S. George²⁵, Ross Zafonte²⁶, Thomas McAllister²⁷, Martha E. Shenton¹¹, Murray Stein, Paul M. Thompson^{5,9,3}, Elisabeth A. Wilde^{3,4,12}, David F. Tate^{3,4}, Aristeidis Sotiras, Rajendra A. Morey (2020). White Matter Microstructural Abnormalities in Military-related Traumatic Brain Injury: Results from an ENIGMA Military Brain Injury Mega-Analysis, **OHBM 2020**, Montreal, June 2020.
1180. Muhammad Adeel Parvaz, PhD¹, Fatima Mubarak, MBBS, FCPS², Emily Dennis, PhD,³ Syed Ather Enam, MD, PhD, FRCSI, FRCSC, FACS², Paul Thompson, PhD⁴, Xiaojian Kang, PhD⁵, Adeel Razi, PhD^{6,7,8} & Maheen M. Adamson, PhD (2020). Impact

of Brain Injury on Dementia: Preliminary Results from a Pakistani Cohort, **OHBM 2020**, Montreal, June 2020.

1181. Yann Quidé, Emiliana Tonini, Dominik Grotegerd, Udo Dannlowski², Tilo Kircher³, Axel Krug³, Igor Nenadic³, Tina Meller³, Bernhard Baune², Pamela DeRosse⁴, Ashley Moyett⁴, Lukasz Smigielski⁵, Wulf Rössler⁵, Mathilde Antoniadou⁶, Theo G. M. van Erp⁷, Paul M. Thompson⁸, André Aleman⁹, Gemma Modinos¹⁰, Melissa J. Green (2020). Childhood trauma, schizotypy and subcortical grey matter volume: An ENIGMA mega-analysis, **OHBM 2020**, Montreal, June 2020.
1182. Meghann C. Ryan, Fengmei Fan, Kathryn S. Hatch, Shuping Tan, Neda Jahanshad³, Paul M. Thompson³, Theo G.M. van Erp⁴, Jessica A. Turner⁵, Shuo Chen¹, Yunlong Tan², L. Elliot Hong¹, Peter Kochunov (2020). Translating ENIGMA-Schizophrenia Big Data findings to the Individual: Regional Vulnerability Index, **OHBM 2020**, Montreal, June 2020.
1183. Philipp G. Sämann, Juan Eugenio Iglesias, Boris A. Gutman, Theo G.M. van Erp, Christopher D. Whelan, Neda Jahanshad, Lianne Schmaal, Paul M. Thompson, Michael Czisch (2020). Networks behind hippocampal subfields: results from a morphological covariance analysis in 293 healthy subjects, **OHBM 2020**, Montreal, June 2020.
1184. Paul M. Thompson (2020). Genetic determinants of brain structure; in Symposium “Neuropsychiatric genetic variation shapes brain architecture by modulating gene expression,” proposed by Sebastien Jacquemont, **OHBM 2020**, Montreal, June 2020.
1185. Sara Larivière, Maria Eugenia Caligiuri, ENIGMA Epilepsy Working Group, Carrie R. McDonald, Antonio Gambardella, Angelo Labate, Andrea Bernasconi, Neda Bernasconi, Boris C. Bernhardt (2020). Network-based atrophy modelling in the common epilepsies: A Worldwide ENIGMA Study, **OHBM 2020**, Montreal, June 2020.
1186. Sara Larivière, Maria Eugenia Caligiuri, ENIGMA Epilepsy Working Group, Antonio Gambardella, Andrea Bernasconi, Neda Bernasconi, Carrie R. McDonald, Angelo Labate, Boris C. Bernhardt (2020). Structural covariance network changes in focal and generalized epilepsies: a worldwide ENIGMA study, **OHBM 2020**, Montreal, June 2020.

AAIC 2020 (10 abstracts)

1187. Thompson PM (2020). Imaging Genomics in the ENIGMA Consortium, in a symposium entitled: Multi-omics and big data analytics: from understanding disease heterogeneity to precision diagnostics, AAIC 2020, July 2020.
1188. Rachel M Brouwer, Marieke Klein, Katrina L Grasby, Hugo G Schnack, Neda Jahanshad, Jalmar Teeuw, Sarah E Medland, Barbara Franke, Paul M Thompson

and Hilleke E Hulshoff Pol, for the ENIGMA plasticity working group. **Genetic markers for brain plasticity**, AAIC 2020, July 2020.

- 1189.Artemis Zavaliangos-Petropulu, Meral A. Tubi, Elizabeth Haddad, Alyssa Zhu, Neda Jahanshad, Paul M. Thompson, Sook-Lei Liew (2020). Automated Hippocampal Segmentation Improved by Convolutional Neural Network Approach in Participants with History of Cerebrovascular Accident, **AAIC 2020**.
- 1190.Meral A Tubi, Elizabeth Matsiyevskiy, Matthew Hapenney, Brandalyn C Riedel, Wendy Mack, Kevin King, Paul M Thompson, Meredith N Braskie (2020). **Cardiovascular Risk Modifies the Relationship of VEGF to Glucose Metabolism in Vascular Territories in Alzheimer's Disease**, AAIC 2020.
- 1191.Ching C, Abaryan Z, Santhalingam V, Zhu A, Bright J, Jahanshad N, Thompson PM (2020). **Complex morphometric effects of sex and aging on subcortical brain structures (N=9,872)**, AAIC 2020.
- 1192.Abaryan Z, Ching C, Santhalingam V, Zhu A, Bright J, Jahanshad N, Thompson PM (2020). **Sex differences in subcortical aging: A nomogram study of age, sex, and APOE (N=9,414)**, AAIC 2020.
- 1193.Julio E. Villalón-Reina, Talia M. Nir, Sophia I. Thomopoulos, Lauren E. Salminen, Neda Jahanshad, and Paul M. Thompson (2020). Evaluating NODDI-based biomarkers of Alzheimer's disease, AAIC 2020.
- 1194.Sophia I. Thomopoulos, Talia M. Nir, Julio E. Villalon-Reina, Neda Jahanshad, Paul M. Thompson (2020). Diffusion MRI metrics of brain microstructure in Alzheimer's disease: Boosting disease sensitivity with multi-shell imaging and advanced preprocessing, AAIC 2020.
- 1195.Talia M. Nir, Lauren E. Salminen, Julio E. Villalon-Reina, Meral A. Tubi, Sophia I. Thomopoulos, Piyush Maiti, Meredith Braskie, Paul M. Thompson, Neda Jahanshad (2020). Hippocampal Subfield Microstructure Abnormalities Mediate Associations between Tau Burden and Memory Performance, AAIC 2020.
- 1196.Pradeep Lam, Alyssa H. Zhu, Lauren E. Salminen, Sophia I. Thomopoulos, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). Comparison of Deep Learning Methods for Brain Age Prediction, AAIC 2020.

SIRS 2020, SOBP 2020, APS 2020, MIDL 2020

- 1197.Maria Jalbrzikowski,, **Paul Thompson**, Dennis Hernaus (2020). Subcortical volume and cortical thickness findings from the ENIGMA Clinical High Risk for Psychosis Working Group, **SIRS 2020**.

1198. Maria Jalbrzikowski, ..., **Paul Thompson**, Dennis Hernaus (2020). Subcortical volume and cortical thickness findings from the ENIGMA Clinical High Risk for Psychosis Working Group, **SOBP 2020, late breaking abstract**.
1199. **Matthew D. Turner**¹, Harshvardhan Gazula¹, Peter Kochunov², Paul Thompson³, Neda Jahanshad³, Chris Ching³, Fabrizio Pizzagalli³, Gregory P. Strauss⁴, Anthony O. Ahmed⁵, ENIGMA Schizophrenia Working Group⁶, Vince D. Calhoun¹, Theo G.M. van Erp⁷ and Jessica A. Turner¹ (2020). **ENIGMA COINSTAC: Increasing Neuroimaging Data Diversity with Managed Privacy, 32nd Annual APS** (Association for Psychological Science) Convention, Chicago, May 21-24 2020.
1200. Daniel C. Moyer, Greg ver Steeg, Chantal Tax, **Paul Thompson (2020)**. Overview of Scanner Invariant Representations, submitted to MIDL 2020, International Conference on Medical Imaging with Deep Learning, Montréal, 6 - 8 July 2020.
1201. Sean R. McWhinney, Holly van Gestel, Martin Alda, ... Chris Ching, Paul Thompson, ... Tomas Hajek (2020). Obesity mediates larger ventricular volumes in bipolar disorders – ENIGMA study in 2438 individuals, International Society for Bipolar Disorders (2020) – Late Breaking Abstract, 2020.

ECNP 2020

1202. Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, David Romascano, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2020). **Altered neurite density and dispersion in the white matter of carriers of 16p11.2 copy number variants, submitted to ECNP 2020.**
1203. **Clara Moreau, Paul Thompson, Seb Jacquemont (2020). Genetics and Connectomics of Schizophrenia and Autism: Recent progress towards underlying mechanisms, submitted to ECNP 2020.**

EMBC 2020 (6 abstracts)

1204. Christopher R. K. Ching, Zvart Abaryan, Vineshwaran Santhalingam, Alyssa Zhu, Joanna Bright, Neda Jahanshad, Paul M. Thompson (2020). **Large-scale Percentile Charts & Surface-Based Maps Reveal Sex Differences in Brain Aging (N=26,440)**, submitted to EMBC 2020, April 18 2020.
1205. Leila Nabulsi, Katherine E. Lawrence, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalón-Reina, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, and Paul M. Thompson (2020). **Sex and hormone replacement therapy influence aging trajectories when using advanced diffusion-weighted MRI metrics in the UK Biobank (N=8,863)**, submitted to EMBC 2020, April 18 2020.
1206. Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalón-Reina, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, and Paul M. Thompson (2020). **Advanced diffusion-weighted MRI metrics more sensitively detect white matter changes associated with age in the UK Biobank**, submitted to EMBC 2020, April 18 2020.

1207. Sophia I Thomopoulos, Christina P Boyle, Christopher RK Ching, Talia M Nir, Artemis Zavalianos-Petropulu, Adam Mezher, Neda Jahanshad, Michael W Weiner, Clifford R Jack, Jr, and Paul M. Thompson for the Alzheimer's Disease Neuroimaging Initiative (2020). Brain Atrophy Rates in Healthy Aging, MCI and Alzheimer's Disease: Relation to Amyloid Positivity and MRI Scan Acceleration, submitted to EMBC 2020, April 18 2020.
1208. Iyad Ba Gari, Xingyu Wei, Shruti P. Gadewar, Wesley Surento, Joshua Boyd, Paul M. Thompson, Neda Jahanshad (2020). A U-Net based tool for Gibbs artifact removal from quantitative susceptibility maps, submitted to EMBC 2020, April 18 2020.
1209. Shruti P. Gadewar, Iyad Ba Gari, Wesley Surento, Joshua Boyd, Paul M. Thompson, Neda Jahanshad (2020). **Deep Learning to predict the brain's morphological trajectories**, submitted to EMBC 2020, April 2020.
- ASHG 2020**
1210. Stephanie J. Loomis¹, Jimmy Z. Liu¹, Saranya Duraisamy², Megan Jensen², Donald G. McLaren², Alyssa Zhu³, Sarah Medland⁴, Pradeep Lam³, **Paul M. Thompson³**, Neda Jahanshad³, Christopher D. Whelan (2020). [Brain age gap is associated with 17q21 MAPT inversion, ASHG 2020.](#)
- AD/PD 2021**
1211. Talia M. Nir¹, Julio E. Villalon-Reina¹, Alyssa Zhu¹, Sophia I. Thomopoulos¹, Piyush Maiti¹, Lauren E. Salminen¹, Robert I. Reid², Matthew A. Bernstein², Bret Borowski³, Clifford R. Jack, Jr.³, Michael W. Weiner⁴, Paul M. Thompson¹, Neda Jahanshad (2020). MULTI COMPARTMENT DIFFUSION MRI MEASURES CAPTURE MICROSTRUCTURAL ASSOCIATIONS WITH AMYLOID AND TAU PET MEASURES IN THE CORTEX, submitted to AD/PD 2021, Sept. 2020.
1212. Foivos Georgiadis, Sara Larivière, Yann Quide, Melissa Green, Axel Krug, Tilo Kircher, Raymond Salvador, Edith Pomarol-Clotet, Gianfranco Spalletta, Aristotle Voineskos, Kang Sim, Benedicto Crespo, Diana Tordesillas Gutiérrez, Nicolas Crossley, Vince Calhoun, Stefan Borgwardt, Stefan Kaiser, Ellen Ji, Philipp Homan, Theo G. M. van Erp, Jessica A. Turner, Paul M. Thompson, Boris Bernhardt and Matthias Kirschner for the ENIGMA Schizophrenia working group (2020). **Brain Network Architecture Influences Morphological Abnormalities in Major Psychiatric Disorders**, submitted to SIRS 2021.
- SOBP 2021 (13 abstracts)**
1213. Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, Paul M. Thompson (2021). Impact of Aging and Sex on Advanced Diffusion-Weighted MRI Measures of White Matter Microstructure, **SOBP 2021.**
1214. Natalia Shatokhina, Katrina L. Grasby, Neda Jahanshad, Jason L. Stein, Sarah E. Medland, Paul M. Thompson (2021). ENIGMA-Vis: A Web Portal to Browse, Navigate & Visualize Brain Genome-Wide Association Studies (GWAS), **SOBP 2021.**

1215. Leila Nabulsi, Neda Jahanshad, Paul M. Thompson, Christopher R. K. Ching, Ole A. Andreassen & Dara M. Cannon for the ENIGMA Bipolar Disorder Working Group (2021). Large-Scale Replication of Bipolar Disorder Dysconnectivity: A Diffusion MRI Analysis of 959 Individuals from the ENIGMA Bipolar Disorder Working Group, **SOBP 2021**.
1216. Theo van Erp, Paul E Rasser, Ulrich Schall, Anton Albajes-Eizagirre, Tilo Kircher, Udo Dannlowski, Carlos López-Jaramillo, Ana Maria Diaz-Zuluaga, Julián Pineda-Zapata, Ingrid Agartz, Yann Quidé, Melissa Green, Stefan Ehrlich, Kathryn Alpert, Lei Wang, Theodore Satterthwaite, Stefan Kaiser, Matthias Kirschner, André Aleman, Jan-Bernard Marsman, Gianfranco Spalletta, Nerisa Banaj, Joaquim Radua, Stefan Borgwardt, Bingchen Gao, Paul M. **Thompson**, Vince Calhoun, Jessica Turner, ENIGMA Schizophrenia Working Group (2021). Deep Brain Structure Volume and Cortical Thickness Associations with Negative Symptom Domains in Schizophrenia, **SOBP 2021**.
1217. Talia M. Nir¹, Julio E. Villalon-Reina¹, Alyssa Zhu¹, Paul M. Thompson¹, * Peter Kochunov^{2*}, Neda Jahanshad (2021). Sensitivity of NODDI Microstructural Measures to the Effects of Age With and Without White Matter Skeletonization, **SOBP 2021**.
1218. Ravi Bhatt, Alyssa Zhu, Paul Thompson, Neda Jahanshad (2021). Morphological Differences in Brain Structure in Chronic Pain in a Big Data Sample, **SOBP 2021**.
1219. Ann Alex, Fernando Aguade, Anqi Qiu, Claudia Buss, Dan Stein, Jessica Girault, John Gilmore, Joseph Piven, Kirsten A. Donald, Lilla Zöllei, Martin Styner, Michael Skeide, Nadine Gaab, Paul M. **Thompson**, Weili Lin, Gustavo de los Campos, Rebecca Knickmeyer, On behalf of the ENIGMA-ORIGINS working group (2021). Demographic and Obstetric Factors Shape the Development of Intracranial Volume and Subcortical Structures in Infancy and Early Childhood, **SOBP 2021**.
1220. Matthias Kirschner, Benazir Hodzic-Santor, Mathilde Antoniades, Igor Nenadic, Tilo Kircher, Axel Krug, Alex Fornito, Aurina Arnatkeviciute, Udo Dannlowski, Pamela DeRosse, Bernhard T. Baune, Melissa Green, Yann Quidé, Christos Pantelis, Raymond Chan, Ulrich Ettinger, Martin Debbané, Melodie Derome, Christian Gaser, Bianca Besteher, Kelly Diederer, Tom J Spencer, Paul Fletcher, Wulf Rössler, Veena Kumari, Haeme Park, Imke Lemmers-Jansen, James Gilleen, Paul Allen, Jan-Bernard Marsman, Irina Lebedeva, Stefan Kaiser, Anne-Kathrin Fett, Iris Sommer, Sara Lariviere, Boris C. Bernhardt, Alain Dagher, Theo G. M. van Erp, Jessica A. Turner, Paul M. **Thompson**, André Aleman, Gemma Modinos for the Schizotypy Working Group (2021). Cortical and Subcortical Neuroanatomical Signatures of Schizotypy in 2,952 Individuals Assessed in a Worldwide ENIGMA Study, **SOBP 2021**.
1221. Claudia Barth, Sinead Kelly, Stener Nerland, Tiril P. Gurholt, Clara Alloza, Celso Arango, Nerisa Banaj, Carrie Bearden, Micheal Berk, Hannes Bohman, Yann Chye, Benedicto Crespo-Facorro, Morgan Hough, Neda Jahanshad, Anthony James, Joost Janssen, Cecilie Johannessen, Katherine H. Karlsgodt, Peter Kochunov, Mathias Lundberg, Runar E. Smelror, Gianfranco Spalletta, Chao Suo, Sophia I. Thomopoulos, Diana Tordesillas-Gutiérrez, Kirsten Wedervang-Resell, Anne M. Myhre, Ole A. Andreassen, Paul M. **Thompson**, Ingrid Agartz (2021). Investigating

White Matter Microstructure in Adolescent Early Onset Psychosis via the Enigma Consortium, **SOBP 2021**.

1222.Foivos Georgiadis, Sara Lariviere, Vaughan Carr, Stanley Catts, Melissa Green, Frans Henskens, Assen Jablensky, Bryan Mowry, Patricia Michie, Christos Pantelis, Yann Quidé, Alex Krug, Tilo Kircher, Raymond Salvador, Edith Pomarol-Clotet, Gianfranco Spalletta, Fabrizio Piras, Nerisa Banaj, Valentina Ciullo, Aristotle Voineskos, Kang Sim, Benedicto Crespo-Facorro, Diana Tordesillas-Gutiérrez, Nicolas Crossley, Juan Undurraga, Alfonso Gonzalez-Valderrama, Vince Calhoun, Stefan Borgwardt, Andre Schmidt, Christina Andreou, Stefan Kaiser, Erich Seifritz, Ellen Ji, Stephanie Homan, Philipp Homan, Jessica A. Turner, Theo van Erp, Paul M. **Thompson**, Boris Bernhardt, Matthias Kirschner (2021). Brain Network Architecture Intricately Linked to Morphological Abnormalities in Major Psychiatric Disorders, **SOBP 2021**.

1223.Dick Schijven, Simon E. Fisher, Barbara Franke, David C. Glahn, Ruben C. Gur, Ryota Hashimoto, Neda Jahanshad, Sarah E. Medland, Paul M. **Thompson**, Theo G. M. van Erp, Jessica A. Turner, Clyde Francks, ENIGMA Schizophrenia Working Group (2021). A Large-Scale Consortium Study of Brain Anatomical Asymmetries in Schizophrenia, **SOBP 2021**.

1224.Gopalkumar Rakesh, Delin Sun, Emily C. Clarke, Courtney Haswell, Paul M. **Thompson**, Emily Dennis, Neda Jahanshad, Rajendra Morey, ENIGMA Consortium (2021). Thalamic Nuclei Volumes in Posttraumatic Stress Disorder: - A Multisite PGC-ENIGMA PTSD Study, **SOBP 2021**.

1225.Tomas Hajek, Sean McWhinney, Christopher R.K. Ching, Ole A Andreassen, Paul M. **Thompson**, for the ENIGMA Bipolar Disorders Working Group (2021). Association Between Obesity and Subcortical Brain Volumes in Bipolar Disorders – ENIGMA Study in 2,735 Individuals, **SOBP 2021**.

ISMRM 2021

1226.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Neda Jahanshad, Paul M. Thompson (2021). Age and Sex Effects on Brain White Matter Microstructure assessed with Advanced Single- and Multi-Shell Diffusion MRI Metrics, accepted at **ISMRM 2021**.

1227.Luis M. García-Marín^{1,2*}, Brittany L. Mitchell^{1,3,4*}, Aoibhe Mulcahy^{1,3} Lachlan T. Strike⁵, Greig I. de Zubicaray⁴, Katie McMahon⁶, **Paul M. Thompson**, Sarah E. Medland¹, Nicholas G. Martin¹, Margaret J. Wright⁵, Miguel E. Rentería^{1,2,3} (2021). Parkinson's disease polygenic risk scores are associated with subcortical brain morphometry in young, healthy adults, submitted to the Movement Disorders Society Virtual Congress (Sep 17-22, 2021).

Flux Conference 2021

1228.Katherine E. Lawrence, Emily Laltoo, James T. McCracken, Paul M. Thompson (2021). Sex differences in advanced measures of white matter microstructure among 9- to 10-year-old children in the ABCD study, Flux Conference, 2021.

ASHG 2021, WCSBP 2021, AACAP 2021

1229.Benjamin B. Sun, Stephanie Loomis, Fabrizio Pizzagalli, Alyssa Zhu, Iyad ba Gari, Daniel Dixon and Tasfiya Islam, Natalia Shatokhina, Megan Jensen, Donald McLaren, Spandana Chintapalli, Heiko Runz, Neda Jahanshad, **Paul M. Thompson**, Christopher D. Whelan (2021). Genetic map of human brain folding and links to developmental pathways and disease, ASHG 2021.

1230.**Thompson PM** (2021). The ENIGMA Consortium: Large-Scale Studies of Brain Genetics and Psychiatric Illness, in Symposium: **ENIGMA and the PGC: Large-scale studies of psychiatric genetics and brain imaging**, World Congress of Societies of Biological Psychiatry (WFSBP) 2021, June 2021.

1231.Katherine E. Lawrence, Emily Laltoo, James T. McCracken, **Paul M. Thompson** (2021). White Matter Microstructure is Associated with Participant Sex and Dimensional Psychopathology in Late Childhood, **AACAP 2021**, June 2021, submitted.

1232.Janna Marie Bas-Hoogendam, Rachel Bernstein, Brenda Benson, ..., **Paul M. Thompson**, P. Michiel Westenberg, Nic J. A. van der Wee, Nynke A. Groenewold, Dan J. Stein, Anderson M. Winkler, Daniel S. Pine on behalf of the ENIGMA-Anxiety Working Group (2021). Structural brain correlates of childhood inhibited temperament: rationale and methodology for an ENIGMA-Anxiety mega-analysis, **ECNP 2021**, submitted, May 2021.

AAIC 2021 (9 abstracts)

1233.Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). The relationship between APOE genotype and subcortical volume: A UK Biobank study (N=36,920), **AAIC 2021**.

1234.Christopher R. K. Ching, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Sex-dependent age trajectories of subcortical brain volume: A UK Biobank study (N=39,544), **AAIC 2021**.

1235.Pradeep Lam, Alex Muir, Alyssa H. Zhu, Neda Jahanshad, Paul M. Thompson (2021). Dementia-Sensitive Brain Age Prediction Using Attention-based Deep Learning, **AAIC 2021**.

1236.Talia M. Nir, Leila Nabulsi, Katherine E. Lawrence, Julio E. Villalon-Reina, Zvart Abaryan, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Paul M. Thompson, Neda Jahanshad, (2021). Effect of APOE4 and APOE2 genotype on white matter microstructure, **AAIC 2021**.

1237.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, M.D.; Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Emily Laltoo, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, Paul M. Thompson (2021). Advanced diffusion-weighted MRI methods

demonstrate improved sensitivity to white matter aging: Percentile charts for over 15,000 UK Biobank participants, **AAIC 2021**.

1238. Leila Nabulsi, Katherine E. Lawrence, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, John P. John, Ganesan Venkatasubramanian, Neda Jahanshad, Paul M. Thompson (2021). Age effects on white matter microstructure in individuals of self-identified Indian ancestry from the UK Biobank, **AAIC 2021**.

1239. Talia M. Nir, Julio E. Villalon-Reina, Elizabeth Haddad, Hong Zheng, Sophia I. Thomopoulos, Piyush Maiti, Alyssa Zhu, Paul M. Thompson, Neda Jahanshad (2021). Cortical microstructural associations with CSF amyloid and tau, **AAIC 2021**.

1240. Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, John P. John, Ganesan Venkatasubramanian, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Subcortical brain trajectories in later life between sexes and APOE genotypes: A UK Biobank study of individuals of self-identified Indian ancestry, **AAIC 2021**.

1241. Ali Ezzati, ..., Paul M. Thompson, et al. (2021). Predicting the risk of incident dementia in older adults: The ADNI-Dementia risk score, **AAIC 2021**.

OHBM 2021 (21 abstracts)

1242. Pradeep Lam, Alexandra M. Muir, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). 3D Attention Networks for Interpretable Age and Dementia Prediction from Structural MRI, **OHBM 2021**.

1243. Alexandra M. Muir, Christopher R. K. Ching, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Effects of APOE genotype on subcortical volume: A study of 41,615 MRI scans from the UK Biobank, **OHBM 2021**.

1244. Christopher R. K. Ching, Alexandra M. Muir, Vigneshwaran Santhalingam, Zvart Abaryan, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Large-scale analysis of sex differences in subcortical volume across the adult lifespan, **OHBM 2021**.

1245. Artemis Zavaliangos-Petropulu, Nerisa Banaj, Giuseppe Barisano, Michael Borich, Amy Brodtmann, Cathrin Buetefisch, Charalambos Charalambous, Valentina Ciullo, Adriana Conforto, Steven Cramer, Rosalia Dacosta-Aguayo, Wayne Feng, Kathryn Hayward, Brenton Hordacre, Steven Kautz, Mohamed Salah Khelif, Hosung Kim, Amy Kuceyeski, David Lin, Bethany Lo, Keith Lohse, Martin Lotze, Maria Mataro, Feroze Mohamed, Ander Ramos-Murguialday, Andrew Robertson, Nicolas Schweighofer, Na Jin Seo, Mark Shiroishi, Gregory Thielman, Nick Ward, Carolee Winstein, Steven Wolf, Kristin Wong, Paul Thompson, Sook-Lei Liew, ENIGMA Stroke Recovery Working Group (2021). Chronic stroke sensorimotor impairment correlates with spared hippocampal volume: An ENIGMA Analysis, **OHBM 2021**.

- 1246.Katherine E. Lawrence, Leila Nabulsi, Vigneshwaran Santhalingam, Zvart Abaryan, Julio E. Villalon-Reina, Talia M. Nir, Iyad Ba Gari, Alyssa H. Zhu, Elizabeth Haddad, Alexandra M. Muir, Emily Laltoo, Neda Jahanshad, Paul M. Thompson (2021). Advanced diffusion-weighted MRI sensitively detects age and sex effects in the corpus callosum, **OHBM 2021**.
- 1247.Julio E. Villalón-Reina, Clara Moreau, Talia M. Nir, Neda Jahanshad, Simons Variation in Individuals Project Consortium, Sarah Lippe, Anne Maillard, David Romascano, Bogdan Draganski, Carrie E. Bearden, Paul M. Thompson, Sebastien Jacquemont (2021). Altered White Matter Diffusion Propagator Indices in Carriers of 16p11.2 Copy Number Variants, **OHBM 2021**.
- 1248.Ravi R. Bhatt, Alyssa H. Zhu, Elizabeth Haddad, Paul M. Thompson, Emeran A. Mayer, Neda Jahanshad (2021). Multivariate Brain Morphological Signatures Predict People Reporting Chronic Pains for over 2 Years, **OHBM 2021**.
- 1249.Talia M. Nir, Julio E. Villalon-Reina, Elizabeth Haddad, Hong Zheng, Sophia I. Thomopoulos, Piyush Maiti, Alyssa Zhu, Paul M. Thompson, Neda Jahanshad (2021). Regional amyloid and tau PET associations with cortical diffusion MRI microstructural measures, **OHBM 2021**.
- 1250.Elizabeth Haddad, Fabrizio Pizzagalli, Alyssa H. Zhu, Daniel Dixon, Tasfiya Islam, Paul M. Thompson, Neda Jahanshad (2021). Multisite Test-Retest Reliability and Compatibility of Brain Metrics derived from FreeSurfer Versions 5.3, 6.0, and 7.1, **OHBM 2021**.
- 1251.Weis, C. N., .. [long list of named authors], Paul M. Thompson, ..., Rajendra Morey and the ENIGMA-PGC PTSD Working Group (2021). Data-driven approach to dynamic resting state functional connectivity in post-traumatic stress disorder: an ENIGMA-PGC PTSD study, **OHBM 2021**.
- 1252.Bo-yong Park, Sara Larivière, Raul Rodríguez-Cruces, Jessica Royer, Shahin Tavakol, Yezhou Wang, Lorenzo Caciagli, Sanjay Sisodiya, Paul M. Thompson, Carrie McDonald, Andrea Bernasconi, Neda Bernasconi, Boris Bernhardt (2021). Divergence of cortical asymmetry and atrophy in temporal lobe epilepsy: A worldwide ENIGMA study, **OHBM 2021**.
- 1253.Yizhou Ma, Elliot Hong, Neda Jananshad, Paul M. Thompson, Peter Kochunov (2021). Brain patterns of neuropsychiatric illnesses and accelerated aging indicate brain health and brain-body relationships in healthy individuals, **OHBM 2021**.
- 1254.Yizhou Ma, Elliot Hong, Neda Jananshad, Paul M. Thompson, Peter Kochunov (2021). The role of nucleus accumbens in stressful events: volumetric and connectivity studies in a large population sample, **OHBM 2021**.
- 1255.Kathryn Hatch, Brian Donohue, Tianzhou Ma, Shuo Chen, Yizhou Ma, Si Gao, L Elliot Hong, Neda Jahanshad, Paul M Thompson, Peter Kochunov (2021). Novel Application of Algorithmic Approaches and Parallel GPU Computing toof Voxel-wise Heritability and Genetic Association Studies, **OHBM 2021**.
- 1256.Claudia Barth*, Sinead Kelly*, Stener Nerland, Tiril P. Gurholt^{4,2}, Clara Alloza, Celso Arango, Nerisa Banajx, Carrie E. Bearden, Michael Berk, Morgan Hough, Neda Jahanshadz,

- Anthony C. James, Joost Janssen, Cecilie Johannessen^{1,2}, Katherine H. Karlsgodt, Runar E. Smelror^{1,2}, Spalletta Gianfranco^{x,y}, Chao Suo, Sophia I. Thomopoulos, Diana Tordesillas-Gutiérrez, Kirsten Wedervang-Resell^{1,2}, Anne M. Myhre, Ole A. Andreassen, Paul M. Thompson, Ingrid Agartz – on behalf of the ENIGMA EOP Working Group (2021). Investigating white matter microstructure in adolescent early onset psychosis via the ENIGMA consortium, **OHBM 2021**.
1257. Clara A. Moreau, Annabelle Harvey, Sebastian Urchs, Guillaume Huguet, Kumar Kuldeep, Elise Douard, Hanad Sharmarke, Pierre Orban, Charles-Olivier Martin, Nadine Younis, Petra Tamer, Jean-Louis Martineau, Ana Isabel Silva, Jeremy Hall, Marianne B.M. van den Bree, Michael J. Owen, David E. J. Linden, Sarah Lippé, Laura Schultz, Laura Almasy, Carrie E. Bearden, David Glahn, Thomas Bourgeron, Paul M. Thompson, Pierre Bellec†, and Sebastien Jacquemont*† (2021). Atlas of functional connectivity relationships across rare and common genetic variants, traits, and psychiatric conditions, **OHBM 2021**.
1258. Andre Altmann, Neda Jahanshad, Paul M. Thompson, Marco Lorenzi (2021). Meta Partial Least Squares for Large Scale Applications in Imaging Genetics, **OHBM 2021**.
1259. Bingchen Gao, Bhim Adhikari, Eun-jin Cheon, Aysenil Belger, Steven Potkin, Juan Bustillo, Daniel Mathalon, Judith Ford, Kelvin Lim, Bryon Mueller, Adrian Preda, Gregory Strauss, Anthony Ahmed, Paul Thompson, Neda Jahanshad, Peter Kochunov, Vince Calhoun, Jessica A. Turner, Theo van Erp (2021). Spontaneous Brain Activity is associated with SANS-based Negative Symptom Domains in Schizophrenia, **OHBM 2021**.
1260. Eun-jin Cheon, Bingchen Gao, Bhim Adhikari, Jesse Edmund, Aysenil Belger, Steven Potkin, Juan Bustillo, Daniel Mathalon, Judith Ford, Kelvin Lim, Bryon Mueller, Adrian Preda, Gregory Strauss, Paul Thompson, Neda Jahanshad, Peter Kochunov, Vince Calhoun, Jessica A. Turner, Theo van Erp (2021). Amplitude of low-frequency fluctuations is associated with Negative Symptom Domains in Schizophrenia, **OHBM 2021**.
1261. Adrian I. Campos, Jill A. Rabinowitz, Neda Jahanshad, Paul M. Thompson, Sarah E. Medland, Miguel E. Rentería (2021). Polygenic prediction of subcortical volumes and cross-ancestry validation, **OHBM 2021**.
1262. Hung Mai, Jingxuan Bao, Paul M. Thompson, Dokyoon Kim, Li Shen (2021). Identifying tissue specific transcriptomic effects on brain volume measures from GWAS summary data, **OHBM 2021**.

ISBI 2021

1263. Pradeep Lam, Alexandra M. Muir, Alyssa H. Zhu, Sophia I. Thomopoulos, Neda Jahanshad, Paul M. Thompson (2021). Visual Feature Analysis of Age and Alzheimer's Disease Classification using Multi-Layer Attention, **ISBI 2021**.
1264. Nynke A. Groenewold¹, Janna Marie Bas-Hoogendam^{2,3}, Moji Aghajani⁴, Kevin Hilbert⁵, Andre Zugman³, Miquel A. Fullana⁶, Anita Harrewijn³, Elise M. Cardinale³, Eline Roelofs⁷, Max A. Laansma⁸, Laura A. van Velzen⁹, Sophia I. Thomopoulos¹⁰, Neda Jahanshad¹⁰, Anderson M. Winkler³, Paul M. Thompson¹⁰, Dick J. Veltman⁴, Ulrike Lueken⁵, Daniel S. Pine³, Dan J. Stein¹¹, and Nic J.A. van der Wee⁷, on behalf of the ENIGMA-Anxiety Working

Group (2021). **Brain characteristics associated with anxiety disorders: an update from the ENIGMA-Anxiety Working Group**, submitted to the *International Congress of the World Association for Stress Related and Anxiety Disorders 2021 (WASAD)*.

1265. Jerod M. Rasmussen, Ph.D.¹, Jetro J. Tuulari², Paul M. Thompson³, Lauren E. Gyllenhammer, Ph.D.¹, Karen L. Lindsay¹, Thomas G. O'Connor⁴, Berthold Koletzko⁵, Saara Nolvi², Maria Lavonius², Harri Merisaari², Linnea Karlsson², Sonja Entringer, Ph.D.^{1,6}, Pathik D. Wadhwa, M.D.¹, Hasse Karlsson², Claudia Buss, Ph.D.^{1,6}. (2021). **Maternal Pre-pregnancy Body Mass Index and Newborn Offspring Hypothalamic Mean Diffusivity, DOHaD** - 12th World Congress on Developmental Origins of Health and Disease, Vancouver, Canada. 27-31 August, 2022.

ASHG 2021

1266. S. Zaranek, T. Clegg, J. Li, W. Vandeweghe, A. M. Brickman, B. N. Vardarajan, A. J. Saykin, C. Davatzikos, L. Shen, H. Huang, **P. M. Thompson**, G. Jun, D. Tosun, T. J. Hohman, P. K. Crane, K. T. Nho, The Alzheimer's Disease Neuroimaging Initiative, AI4AD Initiative, A. W. Zaranek (2021). Discovering Genetic Signatures in Tiled Whole Genome Sequence Data: The Artificial Intelligence for Alzheimer's Disease (AI4AD) Consortium, **ASHG 2021** (American Society for Human Genetics), late-breaking abstract, submitted, Sept. 14, 2021.

SFN21 (6 abstracts) - November 8–11 2021, online:

1267. Betts S, Villalon-Reina JE, Salminen LE, Thompson PM (2022). Brain white matter microstructure and ADHD: A tensor distribution function analysis. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1268. Dhinagar NI, Thomopoulos SI, Owens-Walton C, Weintraub D, Cook P, McMillan C, Thompson PM (2021). Parkinson's disease classification using 3D convolutional neural networks and random forest methods, Society for Neuroscience (SFN) Annual Meeting, 2021.

1269. Lawrence KE, Abaryan Z, Laltoo E, McCracken JT, Thompson PM (2021). White matter sex differences in late childhood assessed with single- and multi-shell diffusion-weighted MRI metrics. Society for Neuroscience Annual Meeting. Virtual meeting due to COVID-19 pandemic.

1270. Owens-Walton C, Zheng H, Thomopoulos SI, Fried I, Salamon N, Engel JP, Thompson PM, Staba R (2021). Cortical and Subcortical MRI Gray Matter Abnormalities Associated with Depth Electrode-Recorded Ictal EEG Onset Patterns in Human Temporal Lobe Epilepsy. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1271. Sinha S, Thomopoulos SI, Lam P, Muir A, Thompson PM (2022). Harmonizing MRI using Attention-Guided Generative Adversarial Networks improves Alzheimer's Disease Classification Performance. Society for Neuroscience Annual Meeting, 2022, Chicago, IL, USA.

1272. Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S (2021). Advanced Diffusion MRI Modeling Detects Altered Axonal Density in Carriers of 16p11.2 Copy Number Variants (CNV). SFN 2021, Virtual Meeting.

SOBP 2022 (4 abstracts) - April 28-30 2022, New Orleans, LA, USA / online:

1273.Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S. Fiber Density vs. Dispersion in 16p11.2 Deletion: A multi-site study of advanced diffusion MRI measures. SOBP 2022, New Orleans, LA, USA.

1274.Zhiqiang Sha¹, Daan van Rooij², ENIGMA-ASD Working Group, ENIGMA-Laterality Working Group, Paul M. Thompson³, Simon E. Fisher^{1,4}, Jan K. Buitelaar², & Clyde Francks^{1,4} (2022). **Subtly altered topological asymmetry of brain structural covariance networks in autism spectrum disorder across 43 datasets from the ENIGMA consortium, submitted to SOBP 2022.**

1275.Peter Kochunov, Paul M Thompson, Elliot Hong (2022). Evaluating Big-Neuroimaging-Data Informed Vulnerability Indices for neuropsychiatric disorders, **submitted to SOBP 2022.**

1276.Lauren E. Salminen, Talia Nir, Peter Kochunov, Sophia Thomopoulos, Paul M. Thompson (2022). Predicting Cognitive Impairment Using a Data-Driven Cortical Vulnerability Index, **submitted to SOBP 2022.**

INSAR 2022 (2 abstracts) - May 11-14 2022, Austin, TX, USA / online:

1277.Kumar K*, Modenato C*, Moreau CA, Ching CRK, Harvey A, Martin-Brevet S, Huguet G, Jean-Louis M, Martin C-O, Douard E, Silva AI, van den Bree MBM, Linden DEJ, Owen MJ, Hall J, Lippé S, Dumas G, Bearden CE, Thompson PM, Jacquemont S (2022). Subcortical brain alterations across copy number variants converge with those in autism and neurodevelopmental psychiatric disorders. International Society for Autism Research Annual Meeting 2022, Austin, Texas.

1278.Lawrence KE, van Rooij D, Laltoo E, McCracken JT, Buitelaar JK, Thompson PM (2022). White matter microstructure differences in autism: A pilot study from the ENIGMA ASD Working Group. International Society for Autism Research Annual Meeting. Austin, Texas. Accepted.

1279.Brendan Angelo^{1,2}, Alexis DeFendis^{1,2}, Anita Yau⁵, Jasmin M. Alves^{1,2}, Paul M. Thompson^{4,6}, Kathleen A. Page^{*1,2,5,6}, Shan Luo^{*1,2,3,4} Relationships between healthy lifestyle and brain cortical thickness in children and young adults, USC Diabetes & Obesity Research Institute (**DORI**) Conference, 2022.

ADPD 2022

1280.Surabhi Sinha, Sophia I. Thomopoulos, Alexandra Miur, Pradeep Lam, **Paul M. Thompson** (2022). Improving Alzheimer's Disease Classification from Brain MRI with an Attention-Guided Generative Adversarial Network and Transfer Learning, **ADPD 2022.**

1281.Jianfeng Wu, Yi Su, Eric M. Reiman, Richard J. Caselli, Kewei Chen, Paul M. Thompson, Junwen Wang*, Yalin Wang* (2022). INVESTIGATING THE EFFECT OF TAU DEPOSITION AND APOE ON HIPPOCAMPAL MORPHOMETRY IN ALZHEIMER'S DISEASE: A FEDERATED CHOW TEST MODEL, **ADPD 2022.**

1282.Jianfeng Wu, Wenhui Zhu, Yi Su, Jie Gui, Natasha Lepore, Eric M. Reiman, Richard J. Caselli, Paul M. Thompson, Kewei Chen, Yalin Wang* (2022). PREDICTING ACCUMULATION OF TAU PLAQUES IN BRAIN IN CEREBRAL CORTEX WITH MULTIVARIATE MRI MORPHOMETRY MEASUREMENTS, **ADPD 2022**.

ISMRM22 (3 papers) - May 7-12 2022, London, England, UK / online

1283.Chandio BQ, Chattopadhyay T, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Visualizing 4230 White Matter Tracts at Once, ISMRM 2022, London, England, UK.

1284.Feng Y, Chandio BQ, Chattopadhyay T, Thomopoulos SI, Owens-Walton C, Jahanshad N, Garyfallidis E, Thompson PM (2022). Deep generative model for learning tractography streamline embeddings based on Convolutional Variational Autoencoder. ISMRM 2022, London, England, UK.

1285.Villalón-Reina JE, Moreau C, Nir TM, Jahanshad N, SVIP Consortium, Lippé S, Maillard A, Romascano D, Draganski B, Bearden CE, Thompson PM, Jacquemont S (2022). Multi-Site Normative Modeling and Hierarchical Bayesian Analysis of DKI metrics in Carriers of 16p11.2 Copy Number Variants . ISMRM 2022, London, England.

Microbiome Virtual International Forum 2022

1286.Chloe X Yap^{1,2,3}, Anjali Henders^{2,3}, Gail A Alvares^{4,3}, David Wood⁵, Lutz Krause⁵, Gene W Tyson^{5,6}, Restuadi², Leanne Wallace^{2,3}, Tiana McLaren^{2,3}, Narelle K Hansell⁹, Dominique Cleary^{4,3}, Rachel Grove^{7,3}, Claire Hafekost^{4,3}, Alexis Harun^{4,3}, Helen Holdsworth^{1,8,3}, Rachel Jellett^{9,3}, Feroza Khan^{7,3}, Lauren Lawson^{9,3}, Jodie Leslie^{4,3}, Mira Levis Frenk^{1,8,3}, Anne Masi^{7,3}, Nisha E Mathew^{7,3}, Melanie Muniandy^{9,3}, Michaela Nothard^{1,8,3}, Jessica Miller¹⁰, Lorelle Nunn², Gerald Holtmann^{11,12}, Lachlan Strike¹⁰, Grieg de Zubricaray¹³, Paul M Thompson¹⁴, Katie L McMahon¹⁵, Margaret J Wright^{9,16}, Peter M Visscher², Paul A Dawson^{1,3}, Cheryl Dissanayake^{8,3}, Valsamma Eapen^{6,17,3}, Helen S Heussler^{7,18,3}, Allan F McRae², Andrew JO Whitehouse^{4,3}, Naomi R Wray^{2,9,3}, Jacob Gratten^{1,2,3,*} (2021). **Restricted diet drives autism-gut microbiome associations**, Microbiome Virtual International Forum 2022, submitted, Nov. 30 2021.

OHBM22 (26 abstracts) - June 19-23 2022, Glasgow, Scotland / online:

1287.Bottino M, Mastrantonio G, Thompson PM, Jahanshad N, Pizzagalli F(2022). Effects of children's screen time activity on their mental health and brain structure in ABCD. Organization for Human Brain Mapping 2022. Glasgow, Scotland.

1288.Boyle CP, Ching CRK, Thomopoulos SI, Bernstein MA, Borowski B, Jack, Jr. CR, Weiner MW, Thompson PM, for the Alzheimer's Disease Neuroimaging Initiative (2022). Unique contribution of brain amyloid load and APOE4 Status to Brain Volume. OHBM 2022, Glasgow, Scotland.

1289.Chandio BQ, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Effects of mild cognitive impairment on white matter tracts of the brain, OHBM 2022, Glasgow, Scotland, UK.

- 1290.Cheng W, Parker N, O'Connell KS, van der Meer D, Ching CRK, Hindley GFL, Shadrin AA, Bahrami S, Lin A, Karadag N, Holen B, Fan C, Westlye LT, Thompson PM, Dale AM, Djurovic S, Frei O, Smeland OB, Andreassen OA (2022). Shared genetic architecture between bipolar disorder and cortical brain structure. OHBM 2022, Glasgow, Scotland.
- 1291.Ching CRK, Thomopoulos SI, Gleave EJ, Santhalingam V, Zhu AH, Islam T, Abaryan Z, Thompson PM (2022). APOE genotype and subcortical brain volumes in 43,195 individuals from the UK Biobank. OHBM 2022, Glasgow, Scotland.
- 1292.Ching CRK, Tronchin G, Nabulsi L, Thomopoulos SI, Radua J, Thompson PM, Andreassen OA, McDonald C (2022). Mega-analysis of lithium and hippocampal volume in the ENIGMA Bipolar Disorder Working Group. OHBM 2022, Glasgow, Scotland.
- 1293.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Stripelis D, Ambite JL, Steeg GV, Thompson PM (2022). Inter and Intra-domain Pre-training for Alzheimer's Disease Classification using Brain MRI, Organization for Human Brain Mapping (OHBM) 2022.
- 1294.Hettwer MD, Larivière S, Park BY, van den Heuvel OA, Schmaal L, Andreassen OA, Ching CRK, Hoogman M, Buitelaar J, Veltman DJ, Stein DJ, Franke B, van Erp TGM, ENIGMA ADHD Working Group, ENIGMA Autism Working Group, ENIGMA Bipolar Disorder Working Group, ENIGMA Major Depression Working Group, ENIGMA OCD Working Group, ENIGMA Schizophrenia Working Group, Jahanshad NJ, Thompson PM, Thomopoulos SI, Bethlehem RAI, Eickhoff SB, Bernhardt BC, Valk SL (2022). Coordinated Cortical Thickness Alterations across Psychiatric Conditions: a Transdiagnostic ENIGMA study. OHBM 2022, Glasgow, Scotland.
- 1295.Kumar K*, Modenato C*, Moreau CA, Ching CRK, Harvey A, Martin-Brevet S, Huguet G, Jean-Louis M, Martin C-O, Douard E, Silva AI, van den Bree MBM, Linden DEJ, Owen MJ, Hall J, Lippé S, Dumas G, Bearden CE, Thompson PM, Jacquemont S (2022). Subcortical brain alterations across CNVs converge with those in idiopathic psychiatric conditions. OHBM 2022, Glasgow, Scotland.
- 1296.Laansma MA, van Heese EM, Zhao Y, Bright JK, Owens-Walton C, Al-Bachari S, Cendes F, Druzgal J, Garraux G, Helmich RC, Klein JC, Lochner C, McMillan CT, Melzer TR, Parkes LM, Poston KL, Rango M, Schwingenschuh P, Spalletta G, van den Heuvel OA, Vriend C, Wang J-J, Wiest R, Jahanshad N, Thompson PM, van der Werf YD, Gutman BA (2022). Machine Learning on Subcortical Shape to Distinguish the PD Brain from The Healthy Brain: ENIGMA-PD. OHBM 2022, Glasgow, Scotland.
- 1297.Larivière S, Paquola C, Park B-y, Royer J, Wang Y, Benkarim O, Vos de Wael R, Valk SL, Thomopoulos SI, Kirschner M, ENIGMA Consortium, Sisodiya S, McDonald CR, Thompson PM, Bernhardt BC (2022). The ENIGMA Toolbox: Cross-disorder integration and multiscale neural contextualization of neuroimaging datasets. OHBM 2022, Glasgow, Scotland.
- 1298.Lawrence KE, Abaryan Z, Laltoo E, McCracken JT, Thompson PM (2022). Advanced diffusion-weighted MRI metrics are associated with pubertal development in over 6,000 youth. Organization for Human Brain Mapping. Glasgow, Scotland.
- 1299.Lopez SM, Aksman LM, Oxtoby NP, Rao J, Kaestner E, McDonald CR, Alexander DC, Sisodiya SM, Altmann A, for the ENIGMA-Epilepsy working group (2022). Temporal lobe epilepsy shows a progressive increased brain asymmetry evaluated by event-based modelling. OHBM 2022, Glasgow, Scotland.
- 1300.Luo S, Hsu E, Lawrence KE, Adise S, Herting M, Buchanan T, Page K, Thompson PM (2022) Associations between prenatal exposure to maternal diabetes and adiposity and mediating effects of brain structure, Organization for Human Brain Mapping. 2022 Annual Conference. Glasgow, Scotland.

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INTS22 (1 abstract) - July 17-20 2022, Berlin, Germany:

1313.Keleher F, Wilde E, Amiri H, Asarnow R, Babikian T, Caeyenberghs K, Ewing-Cobbs L, Giza C, Goodrich-Hunsaker N, Hodges C, Hoskinson K, Irimia A, Koerte I, Lindsey H, Max J, Newsome M, Olsen A, Ryan N, Schmidt A, Sitzmann A, Stein D, Suskauer S, Thompson PM, Ware A, Zafonte R, Zielinski B, Tate D, Dennis E (2022). Associations between Cerebellum Volume and Executive Function Following Pediatric TBI. INTS 2022, Berlin, Germany.

AAIC22 (27 abstracts) - July 31-Aug 4 2022, San Diego, CA, USA / online:

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1316.Chandio BQ, Owens-Walton C, Villalon Reina JE, Nabulsi L, Thomopoulos SI, Guaje J, Garyfallidis E, Thompson PM (2022). Microstructural changes in the white matter tracts of the brain due to mild cognitive impairment, AAIC 2022, San Diego, CA, USA

1317.Chattopadhyay T, Thomopoulos SI, Thompson PM (2022). Predicting Amyloid Positivity from Hippocampal and Entorhinal Cortex Volume and APOE Genotype, AAIC 2022, San Diego, CA, USA

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1319.Contreras A, Walters S, Mukherjee S, Lee ML, Choi S-E, Scollard P, Trittschuh EH, Mez J, Bush WS, Engelman CD, Lu Q, Fardo DW, Widaman KF, Buckley R, Mormino E, Kunkle B, Naj A, Clark LR, Gifford KA, The Alzheimer's Disease Neuroimaging Initiative (ADNI)*, Alzheimer's Disease Genetics Consortium (ADGC), The Alzheimer's Disease Sequencing Project (ADSP), Cuccaro ML, Cruchaga C, Pericak-Vance MA, Farrer LA, Wang L-S, Schellenberg G, Haines JL, Jefferson AL, Johnson SC, Kukull WA, Albert MS, Keene CD, Saykin AJ, Larson EB, Sperling RA, Mayeux R, Thompson PM, Martin ER, Bennett DA, Barnes L, Schneider JA, Crane PK, Hohman TJ, and Dumitrescu L (2022). Sex differences in APOE effects on cognition are domain-specific, AAIC 2022, San Diego, CA, USA

1320.Dhinagar NI, Thomopoulos SI, Owens-Walton C, Stripelis D, Ambite JL, Steeg GV, Thompson PM (2022). Alzheimer's Disease Detection with a 3D Convolutional Neural Network using Gray Matter Maps from T1-weighted Brain MRI, Alzheimer's Association International Conference (AAIC) 2022

1321.Eissman JM, Smith AN, Mukherjee S, Lee ML, Choi S-E, Scollard P, Trittschuh EH, Mez J, Bush WS, Engelman CD, Lu Q, Fardo DW, Widaman KF, Buckley RF, Mormino EC, Kunkle B, Naj A, Clark LR, Gifford KA, Alzheimer's Disease Neuroimaging Initiative (ADNI), Alzheimer's Disease Genetics Consortium (ADGC), A4 Study Team, The Alzheimer's Disease Sequencing Project (ADSP), Cuccaro ML, Cruchaga C, Pericak-Vance MA, Farrer LA, Wang L-S, Schellenberg GD, Haines JL, Jefferson AL, Johnson SC, Kukull WA, Albert MS, Keene CD, Saykin AJ, Larson EB, Sperling RA,

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- 1322.Feng Y, Chandio BQ, Chattopadhyay T, Thomopoulos SI, Owens-Walton C, Garyfallidis E, Jahanshad N, Thompson PM (2022). Learning Streamline Embeddings with Variational Autoencoder For Intersubject Bundle Comparison, AAIC 2022, San Diego, CA, USA.
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- 1324.Hu J, Sahelijo N, Priyadarshi D, Alzheimer's Disease Neuroimaging Initiative (ADNI), AI4AD Consortium, Thompson PM, Saykin AJ, Davatzikos C, Jun GR (2022). Predicting Decline from MCI to AD using Module-Based Polygenic Risk Scores Informed by Brain Proteome Profiles, AAIC 2022, San Diego, CA, USA.
- 1325.Jahanshad N, Haddad E, Zhu AH, Nir TM, Bhatt RR, Nourollahimoghadam E, Thompson PM, Salminen LE, Medland SE, Gupta A (2022). Multi-ethnic differences in brain and biopsychosocial risk factors for AD in UK immigrants from the Middle East and North Africa (MENA), AAIC 2022, San Diego, CA, USA.
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- 1330.Popa E, Kress G, Thompson PM, Bookheimer SY, Thomopoulos SI, Ching CRK, Zheng H, Merrill DA, Panos SE, Siddarth P, Bramen J (2022). Early Validation of a Structural Magnetic Resonance Imaging Metric for Tracking Dementia-Related Neurodegeneration, AAIC 2022, San Diego, CA, USA.
- 1331.Rajagopalan P, Tennant VR, Thomopoulos SI, Walton CO, Kempton MJ, Si S, Thompson PM (2022). Different atrophy profiles detected in AD patients who carry APOE4 versus non-carriers: An ENIGMA-VBM Multicohort Analysis (N=1,893), AAIC 2022, San Diego, CA, USA.
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- 1334.Tennant VR, Thomopoulos SI, Chattopadhyay T, Thompson PM, Rajagopalan P (2022). Independent and interactive effects of APOE ϵ 4 and β -amyloid on cortical thickness in Alzheimer's disease, AAIC 2022, San Diego, CA, USA.
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- 1339.Zhu AH,* Nir TM,* Gari IB, Dixon D, Islam T, Villalon-Reina JE, Haddad E, Thompson PM, Jahanshad N (2022). APOE4 genotype associations with longitudinal change in hippocampal microstructure, AAIC 2022, San Diego, CA, USA.

SSSP 2022

- 1340.Yidian Gao et al. (2022). An ENIGMA mega-analysis of cortical structure and subcortical volumes in youths with conduct disorder: Influence of sex, callous-unemotional traits and age-of-onset, **SSSP 2022, 18 - 21 May 2022** (Society for the Scientific Study of Psychopathy).
- 1341.Janna Marie Bas-Hoogendam, Rachel Bernstein, Brenda E. Thompson, P. Michiel Westenberg, Nic J.A. van der Wee, Nynke A. Groenewold, Dan J. Stein, Anderson M. Winkler, Daniel S. Pine on behalf of the ENIGMA-Anxiety Working Group (2022). Brain structure of childhood inhibited temperament: rationale and methodology of an ENIGMA-Anxiety multi-site mega-analysis, [VNOP conference 2022 in Utrecht \(NL\)](#), 2022.

1342. Priya Rajagopalan, Victoria Tennant, Sophia I. Thomopoulos, Paul M. Thompson (2022). Differential Atrophy Profiles Related to APOE4 Genetic Variant: An ENIGMA-VBM Multicohort Analysis in Alzheimer's Disease, submitted to ASNR 2022/SNR XXII.
1343. Emily Laltoo, Katherine E. Lawrence, Priya Rajagopalan, Sebastian M. Benavidez, Lilit Yengoian, Matthew J. Kempton, James T. McCracken, Paul M. Thompson (2022). Regional specificity of structural brain alterations in autism: A pilot voxel-based morphometry meta-analysis, 2022 Flux Conference.
1344. S. King¹, G. Tronchin¹, L. Nabulsi², S. I. Thomopoulos², E. Fontana^{1,3}, J. Radua⁴, K. Sims^{5,6}, O. Gruber⁷, L. Yatham⁸, U. Dannlowski⁹, T. Kircher¹⁰, I. Nenadic¹⁰, F. Stein¹⁰, K. Brosch¹¹, F. Howells^{12,13}, B. C.M. Haarman¹⁴, E. Pomarol-Clotet¹⁵, E. Vieta^{16,17}, M. Landen¹⁸, D. Cannon¹⁹, D. Alnæs²⁰, L. T. Westlye²⁰, C. López Jaramillo^{21,22}, M. Gerhardt Soeiro-de-Souza²³, M. Berk^{24,25}, T. Elvsåshagen²⁶, G. Roberts²⁷, P. B. Mitchell²⁷, J. M. Fullerton^{28,29}, M. J. Green^{30,31}, Y. Quidé^{32,33}, M. Hermesdorf³⁴, K. Berger³⁴, J. Soares^{35,36}, T. Satterthwaite³⁷, J. Savitz^{38,39}, R. Kuplicki³⁸, F. Benedetti^{40,41}, D. Glahn⁴², A. Rodrigue⁴², T. Hajek^{43,44}, R. Kuplicki³⁸, I. H. Gotlib⁴⁵, S. Amoretti⁴⁶, M. Sacchet⁴⁷, P. Favre⁴⁸, T. Van Rheenen^{49,50}, J. Anthony Karantonis⁵¹, L. Furlong⁴⁹, F. Forte⁴⁶, L. T. Westlye⁵², S. Rossell⁵⁰, B. Goldstein⁵³, K. Kennedy⁵³, J. Houenou^{54,55,56}, A. Rodrigue⁴², E. MT Melloni^{40,57}, S. Sponheim^{58,59}, S. Urosevic^{59,60}, C. Demro^{61,62}, R. Goya-Maldonado⁶³, L. Eyler⁶⁴, P. M. Thompson², O. A. Andreassan⁶⁵, C. R. K. Ching⁶⁶, C. McDonald^{1.}, the ENIGMA Bipolar Disorder Working Group (2022). **Concurrent antiepileptic and antipsychotic use moderates lithium's effects on regional brain volumes: a mega-analysis from the ENIGMA-Bipolar Disorder Working Group, submitted to ECNP 2022.**

WCPG 2022

1345. Olivia Wootton, Megan Campbell, Neda Jahanshad, Paul M. Thompson, Dan Stein, Shareefa Dalvie (2022). Characterizing the shared genetic influences between schizophrenia and subcortical brain regions, submitted to WCPG 2022.

ASHG 2022

1346. Jaclyn M. Eissman^{1,2}, Shubhabrata Mukherjee³, Michael L. Lee³, Seo-Eun Choi³, Phoebe Scollard³, Emily H. Trittschuh^{4,5}, Jesse B. Mez⁶, William S. Bush⁷, Corinne D. Engelman⁸, Qiongshi Lu^{9,10}, David W. Fardo^{11,12}, Keith F. Widaman¹³, Rachel F. Buckley^{14,15,16}, Elizabeth C. Mormino¹⁷, Brian W. Kunkle¹⁸, Adam C. Naj^{19,20}, Lindsay R. Clark⁸, Katherine A. Gifford¹, Alzheimer's Disease Neuroimaging Initiative (ADNI), A4 Study Team, Alzheimer's Disease Genetics Consortium (ADGC), Alzheimer's Disease Sequencing Project (ADSP), Michael L. Cuccaro¹⁸, Carlos Cruchaga²¹, Margaret A. Pericak-Vance¹⁸, Lindsay A. Farrer^{6,22,23}, Li-San Wang²⁰, Gerard D. Schellenberg²⁰, Jonathan L. Haines⁷, Angela L. Jefferson¹, Sterling C. Johnson⁸, Walter A. Kukull³, Marilyn S. Albert²⁴, C Dirk Keene³, Andrew J. Saykin²⁵, Eric B Larson^{3,26}, Reisa A. Sperling¹⁴, Richard P. Mayeux^{27,28,29}, Paul M. Thompson³⁰, Eden R. Martin¹⁸, David A. Bennett³¹, Lisa L. Barnes³¹, Julie A. Schneider³¹, Paul K. Crane³, Timothy J. Hohman^{1,2}, and Logan Dumitrescu^{1,2} (2022). Sex-specific genetic predictors of memory performance in older adults, submitted to **ASHG 2022.**

Southeastern Neurodegenerative Disease Conference 2022 (SendCON 2022)

1347. Vaibhav Janve, Jaclyn M. Eissman^{1,2}, Shubhabrata Mukherjee³, Michael L. Lee³, Seo-Eun Choi³, Phoebe Scollard³, Emily H. Trittschuh^{4,5}, Jesse B. Mez⁶, William S. Bush⁷, Corinne D. Engelman⁸, Qiongshi Lu^{9,10}, David W. Fardo^{11,12}, Keith F. Widaman¹³, Rachel F. Buckley^{14,15,16}, Elizabeth C. Mormino¹⁷, Brian W. Kunkle¹⁸, Adam C. Naj^{19,20}, Lindsay R. Clark⁸, Katherine A. Gifford¹, Alzheimer's Disease Neuroimaging Initiative (ADNI), A4 Study Team, Alzheimer's Disease Genetics Consortium (ADGC), Alzheimer's Disease Sequencing Project (ADSP), Michael L. Cuccaro¹⁸, Carlos Cruchaga²¹, Margaret A. Pericak-Vance¹⁸, Lindsay A. Farrer^{6,22,23}, Li-San Wang²⁰, Gerard D. Schellenberg²⁰, Jonathan L. Haines⁷, Angela L. Jefferson¹, Sterling C. Johnson⁸, Walter A. Kukull³, Marilyn S. Albert²⁴, C Dirk Keene³, Andrew J. Saykin²⁵, Eric B Larson^{3,26}, Reisa A. Sperling¹⁴, Richard P. Mayeux^{27,28,29}, Paul M. Thompson³⁰, Eden R. Martin¹⁸, David A. Bennett³¹, Lisa L. Barnes³¹, Julie A. Schneider³¹, Paul K. Crane³, Timothy J. Hohman^{1,2}, and Logan Dumitrescu^{1,2} (2022). Predicted genetically regulated gene expression (GReX) identifies known and novel gene predictors of memory performance in Non-Hispanic White (NHW) older adults. Submitted to the **Southeastern Neurodegenerative Disease Conference 2022** (SendCON 2022)

AES 2022

1348. Judy Chen, Alexander Ngo, Sara Lariviere, Raul Rodriguez-Cruces, Reinder Vos de Wael, ENIGMA-Epilepsy, **Paul M. Thompson**, Sophia Thomopoulos, Sanjay Sisodiya, Carrie McDonald, Lorenzo Caciagli, Andrea Bernasconi, Neda Bernasconi, Boris Bernhardt (2022). Tracking epilepsy-related gray matter atrophy across the lifespan: an ENIGMA study, submitted to **AES 2022**.

1349. Hong Zheng, Mohamad Shamas², Sophia I. Thomopoulos¹, Elizabeth Haddad¹, Conor Owens-Walton¹, Yaqiong Chai³, Neda Jahanshad¹, Meredith N. Braskie¹, Paul M. Thompson¹, Richard Staba (2022). **Evidence for Accelerated Hippocampal Volume Loss with Age in Patients with Left Hemisphere Focal Seizures, submitted to AES 2022.**

ICAR22 (1 abstract) - November 1-4, 2022, Dallas, TX, USA:

1350. Rezende T, Arrigoni F, Corben L, Deistung A, Delatycki M, Dogan I, Egan G, Göricke S, Georgiou-Karistianis N, Henry P-G, Hutter D, Joers J, Lenglet C, Martinez A, Martinuzzi A, Peruzzo D, Pisharady P, Reetz K, Romanzetti S, Schulz J, Thomopoulos SI, Thompson PM, Timmann D, Tirelli S, Vavla M, Harding I, França Jr. MC (2022). Spinal cord degeneration in Friedreich's Ataxia: Results from the Enigma-Ataxia working group. ICAR 2022, Orlando, FL, USA.

SFN 2022

1351. Sean R. McWhinney, PhD¹, Christoph Abé, PhD², Martin Alda, MD¹, Francesco Benedetti, MD^{3,4}, Erlend Bøen, MD, PhD⁵, Caterina del Mar Bonnin, PhD⁶, Tiana Borgers, MSc⁷, Katharina Brosch, MSc⁸, Erick J. Canales-Rodríguez, PhD⁹, Dara M. Cannon, PhD¹⁰, Udo Dannlowski, MD, PhD⁷, Ana M. Diaz-Zuluaga, MD¹¹, Lorie Dietze, MBS¹, Torbjørn Elvsåshagen, MD, PhD^{12,13,14}, Lisa T. Eyler PhD^{15,16}, Janice M. Fullerton, PhD^{17,18}, Jose M. Goikolea, MD⁶, Janik Goltermann, M.Sc⁷, Dominik Grotegerd, PhD⁷, Bartholomeus C. M. Haarman, MD, PhD¹⁹, Tim Hahn, PhD⁷, Fleur M. Howells, PhD^{20,21}, Martin Ingvar, MD, PhD², Tilo T. J. Kircher, PhD⁹, Axel Krug, PhD^{8,22}, Rayus T. Kuplicki, PhD²³, Mikael Landén, MD^{24,25},

Hannah Lemke, MSc⁷, Benny Liberg, MD, PhD², Carlos Lopez-Jaramillo, MD, PhD¹¹, Ulrik F. Malt, MD, PhD^{5,26}, Fiona M. Martyn, BSc¹⁰, Elena Mazza, MSc^{3,4}, Colm McDonald, MD, PhD¹⁰, Genevieve McPhilemy, PhD¹⁰, Sandra Meier, PhD¹, Susanne Meinert, MSc⁷, Tina Meller, PhD^{8,27}, Elisa M. T. Melloni, PhD^{3,4}, Philip B. Mitchell, MD²⁸, Leila Nabulsi, PhD¹⁰, Igor Nenadic, MD⁸, Nils Opel, MD⁷, Roel A. Ophoff, PhD^{29,30}, Bronwyn J. Overs, BPsychSch¹⁷, Julia-Katharina Pfarr, MSc⁸, Julian A. Pineda-Zapata, BSc³¹, Edith Pomarol-Clotet, MD, PhD⁹, Joaquim Raduà, MD, PhD^{2,6,32}, Jonathan Repple, MD⁷, Maike Richter, MSc⁷, Kai G. Ringwald, MSc⁸, Gloria Roberts, PhD²⁸, Alex Ross, BSc¹, Raymond Salvador, PhD⁹, Jonathan Savitz, PhD^{23,33}, Simon Schmitt, MSc⁸, Peter R. Schofield, DSc, PhD^{17,18}, Kang Sim, MD^{34,35}, Dan J. Stein, MD, PhD^{20,21,36}, Frederike Stein, MA⁸, Henk S. Temmingh, MD, MPH²¹, Katharina Thiel, PhD⁷, Sophia I. Thomopoulos, BA⁴⁰, Neeltje E. M. van Haren, PhD^{37,38}, Holly Van Gestel, MSc¹, Cristian Vargas, MD¹¹, Eduard Vieta, MD, PhD⁶, Annabel Vreeker, PhD³⁷, Lena Waltemate, MSc⁷, Lakshmi N. Yatham, MBBS³⁹, Christopher R. K. Ching PhD⁴⁰, Ole A. Andreassen, MD, PhD¹², Paul M. Thompson, PhD⁴⁰, and Tomas Hajek, MD, PhD^{1,41}, for the ENIGMA Bipolar Disorders Working Group (2022). **Association between body mass index and cortical brain structure in bipolar disorders – an ENIGMA study in 2,832 individuals**, submitted to SFN 2022.

1352.Christina P. Boyle¹, Christopher R. K. Ching¹, Sophia I. Thomopoulos¹, Matt A. Bernstein², Bret Borowski², Clifford R. Jack, Jr.², Michael W. Weiner³, Paul M. Thompson¹, for the Alzheimer’s Disease Neuroimaging Initiative (ADNI) (2022). Longitudinal MRI atrophy biomarkers and their relation to CSF Tau and A β in the ADNI3 cohort, submitted to SFN 2022.

1353.Jiong Chen^{1,2,3}, Junhao Wen^{1,2}, Zhijian Yang^{1,2}, Yuhan Cui^{1,2}, Jingxuan Bao⁴, Brian N Lee², Guray Erus^{1,2}, Sarah Wait Zaranek⁵, Alexander Wait Zaranek⁵, Yong Fan^{1,2}, Andrew J. Saykin⁶, Paul M. Thompson⁷, Li Shen⁴, Haochang Shou^{1,8}, Ilya M. Nasrallah^{1,2}, Christos Davatzikos (2022). **Genetic Heterogeneity of Four Deep Learning-derived MCI/AD Dimensions via Genome-wide Tiling Associations**, MidAtlantic Bioinformatics Conference, Philadelphia, PA, 2022.

II. INVITED LECTURES 1996-2022

Hamburg, Germany

Visualization and Mapping of Anatomic Abnormalities using a Probabilistic Brain Atlas Based on Random Fluid Transformations, Invited Speaker, International Conference on Visualization in Biomedical Computing: Hamburg, Germany, **September 23, 1996**. Paper can be found in: Lecture Notes in Computer Science **1131**, K.-H. Höhne, R. Kikinis, [eds.], Springer-Verlag.

Montreal Neurological Institute, McGill University, Canada

Advances in the Mapping of Structural Abnormalities in the Human Brain, Invited Speaker, Symposium on Statistics in Brain Mapping, Host: Dr Luc Vinet, Centre de Recherche en les Mathematiques, Montreal, **June 13, 1998**.

University of Southern California, Department of Electrical Engineering

Mathematical/Computational Strategies for Human Brain Mapping, Invited Speaker, USC Human Brain Project Seminar Series, Host: Prof. Richard Leahy, Editor, IEEE Transactions on Medical Imaging, **December 4, 1997**.

University of California Los Angeles, Department of Mathematics

Mathematical/Computational Strategies for Mapping the Human Brain, Invited Speaker, UCLA Mathematics Seminar Series, Host: Prof. Tony Chan, Chair, UCLA Dept. Mathematics, **November 20, 1997**.

University of California Los Angeles, Department of Statistics

Encoding Structural and Functional Information in Human Brain Image Databases, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Ker-Chau Li, UCLA Dept. of Statistics, **February 27, 1997.**

University of California Los Angeles, Dept. of Biomathematics

Detection and Quantification of Anatomic Abnormalities using a Probabilistic Atlas of the Human Brain, Invited Speaker, UCLA Seminars in Biomathematics, Host: Carol Newton, M.D., Ph.D., UCLA Dept. of Biomathematics, **April 4, 1996.**

University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology

Pathology Detection using a Probabilistic Reference System for the Human Brain, Invited Speaker, UCLA Human Brain Mapping Seminars, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 11, 1998.**

University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology

Detection and Mapping of Abnormal Brain Structure in Development and Disease using Neuroimaging, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **April 22, 1998.**

University of California Los Angeles, Brain Research Institute, 1998 Eiduson Lecture

Mathematical/Computational Strategies for Human Brain Mapping and Pathology Detection, Invited Lecture, Hosts: Allan J. Tobin, Ph.D., Director of the UCLA Brain Research Institute, and Arthur P. Arnold, Ph.D., Chair, Neuroscience Inter-Departmental Ph.D. Program, **June 2, 1998.**

Montreal Neurological Institute, McGill University, Canada

Growth Patterns in the Developing Human Brain Detected Using Continuum-Mechanical Tensor Maps and Serial MRI, Invited Speaker, International Conference on Functional Mapping of the Human Brain, **June 10, 1998.**

Laboratory for Research on the Neuroscience of Autism, University of California at San Diego, La Jolla, CA

Mathematical/Computational Strategies for Human Brain Mapping and Pathology Detection, Invited Lecture, Host: Eric Courchesne, M.D., Director of Autism Research, **July 3, 1998.**

Pittsburgh Supercomputing Center, Pittsburgh, PA

Supercomputing Strategies in Human Brain Mapping, Invited Speaker, Workshop on Biomedical Image Analysis and Visualization, July 24-July 26 1998, Host: Nigel Goddard, Ph.D., **July 24, 1998.**

University of California Los Angeles, 1998 Neuro-Oncology Symposium, School of Medicine

Modeling of Human Brain Tumors: Imaging in the 4th Dimension, Invited Speaker, UCLA Neuro-Oncology Symposium, Host: Tim Cloughesy, M.D., UCLA Dept. of Neurology, and Director, Neuro-Oncology Program, **October 14, 1998.**

University of Texas, San Antonio, TX

Mathematical/Computational Challenges in Creating Deformable and Probabilistic Atlases of the Human Brain, Invited Speaker, BrainMap 1998, Host: Jack Lancaster, Ph.D., **December 7-8 1998.**

University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology

Challenges in Population-Based Brain Mapping: Dynamic, Disease-Specific and Probabilistic Brain Atlases, Invited Speaker, UCLA Human Brain Mapping Seminars, Ahmanson-Lovelace Brain Mapping Center, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 10, 1999.**

University of California Los Angeles, Department of Neurology Faculty Retreat, Lake Arrowhead, CA
Population-Based Brain Mapping, Invited Speaker, Seminar Topic: *Innovation in the 21st Century: Implications for Neuroscience*, Host: Marie-Francoise Chesselet, M.D., Ph.D., UCLA Dept. of Neurology, **June 5, 1999**.

Veteran's Administration (VA) Hospital, West Los Angeles, CA
Challenges in Population-Based Brain Mapping, Invited Speaker, Hosts: Eric Cheng, M.D., Chief Resident, and Claude Wasterlain, M.D., UCLA Dept. of Neurology and VA Medical Center, **October 1, 1999**.

University of Minnesota, Minneapolis, MN
Mathematical/Computational Challenges in Population-Based Brain Mapping, Invited Speaker, Dept. of Electrical and Computer Engineering, Host: Prof. Guillermo Sapiro, Ph.D. and Prof. Peter Olver, Ph.D., Director of the Institute for Mathematics and Its Applications, **November 15, 1999**.

University of California Los Angeles, Department of Statistics
Mathematical and Statistical Challenges in Population-Based Brain Imaging, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Rick Schoenberg, UCLA Dept. of Statistics, **February 1, 2000**.

University of California Los Angeles, Department of Biostatistics
Mathematical and Statistical Challenges in Brain Mapping, Invited Speaker, UCLA Seminars in Biostatistics, Hosts: Prof. Dorota Dabrowska, UCLA Dept. of Biostatistics, **February 9, 2000**.

Brown University, Providence, RI
Mathematical/Computational Challenges in Population-Based Brain Mapping, Invited Speaker, Seminars in Computer Vision and Biomedical Engineering, Brown Applied Mathematics Pattern Theory and Vision Seminar, Dept. of Applied Mathematics, Host: Prof. Ulf Grenander, Professor Emeritus in Applied Mathematics, Brown University, **April 25-27, 2000**.

University of Indiana, Indianapolis, IN
Mathematical/Computational Challenges in Population-Based Brain Mapping, Invited Speaker, International Workshop on Statistics in Brain Mapping, and Joint Statistical Meetings (JSM) 2000, Host: Prof. Keith Worsley, Ph.D., **August 13, 2000**.

Dept. of Neurosurgery, Montreal Neurological Institute, McGill University, Canada
Advances in Mapping the Human Brain, Invited Speaker, Killam Lecture Committee, McGill Dept. of Neurology and Neurosurgery, Host: Louis Collins, Ph.D. Date: TBA, Summer 2000.

Neuro-Oncology Program 2000 Retreat, Lake Arrowhead Resort, CA
Modeling Human Brain Tumors: Growth Mapping, Intraoperative MRI, and Genetic Profiling
Invited Speaker, Neuro-Oncology Retreat, Host: Tim Cloughesy MD, **October 7, 2000**.

Santa Monica Hospital, Los Angeles
Brain Mapping in Diseased Populations: Recent Advances and Future Promise, Invited Speaker, CME Accredited Course to Primary Care Physicians, family practitioners and internists, Host: Poonam Bhatla, **October 26, 2000**.

Florida State University, Dept. of Statistics, Tallahassee, FL
Mathematical/Computational Challenges in Population-Based Brain Mapping, Invited Speaker, Seminars in Statistics and Biomedical Engineering, Host: Anuj Srivastava, Ph.D. Date: **November 7, 2000**.

**Johns Hopkins University School of Medicine and
Center for Imaging Science, Whiting School of Engineering, Baltimore, MD**

Mathematical/Computational Challenges in Population-Based Brain Mapping, Invited Speaker, Seminars in Biomedical Engineering, Host: Michael I. Miller, Ph.D., Director of the Center for Imaging Science, Johns Hopkins University. Date: **November 20, 2000**.

University of California Los Angeles, Crump Institute for Molecular Imaging (CIMDI), Department of Medical and Molecular Pharmacology

An Introduction to Current Challenges in Brain Mapping, Invited Speaker, Seminars in Imaging and Instrumentation, Host: Prof. Simon Cherry, Associate Director, Crump Institute for Molecular Imaging, 3:00PM, **November 29, 2000**.

Centre de Recherche en les Mathematiques, McGill University, Montreal, Canada

Advances in Digital Brain Atlases Based on Large Human Populations, Guest Speaker, Symposium on Mathematical Methods in Brain Mapping, Host: Prof. Luc Vinet and Prof. Keith Worsley, Centre de Recherche en les Mathematiques, Montreal, **December 10-11, 2000**.

National Institutes of Health, NIMH Child Psychiatry Branch, Bethesda, MD

Advances in Mapping Human Brain Development, Guest Speaker, Integrative Neuroscience Seminar, Hosts: Jay Giedd MD, and Judy Rapoport MD, Child Psychiatry Branch, NIMH, **January 25, 2001**

Missouri Education Summit, Symposium on Brain Research, Osage Beach, Lake of the Ozarks, MO

Mapping Brain Growth in Children and Teens: Recent Advances and Future Promise, Keynote Speaker, Hosts: Governor Bob Holden and First Lady Lori Hauser Holden of Missouri, and Nancy Davis, PhD, Director, Practical Parenting Partnerships, **March 23, 2001**.

Policy Implications of Current Research on Brain Development, Panel Speaker (with John Constantino MD, Washington University), Host: Dr. Orlo Shroyer, State Commissioner for Education, Missouri, **March 23, 2001**.

Brain Development and Neuro-Imaging: What Are We Learning? Platform Talk, Missouri Education and Parenting Conference, Host: Nancy Davis, PhD, Director, Practical Parenting Partnerships, **March 23, 2001**.

Arizona State University, Alzheimer's Disease Center, Phoenix, AZ

Imaging Brain Development and Disease in Large Human Populations, Invited Speaker, Seminars in Neurology, Hosts: Gene Alexander, M.D., and Eric Reiman, M.D., Arizona State University Alzheimer's Disease Center, **April 26, 2001**.

National Academy of Sciences, Washington, DC

Mapping Brain Growth in Children and Teens: Recent Advances and Future Promise, Invited Speaker, National Academy of Sciences, Hosts: Michele Kipke, Ph.D. and Sonja Wolfe, Ph.D., National Academy of Sciences and Institute of Medicine, **May 2, 2001**.

University of California Los Angeles, Institute for Pure and Applied Mathematics

Mathematical Challenges in Population-Based Brain Mapping, Invited Speaker and Session Chair, Workshop on Mathematics and Modeling in Brain Mapping, Conference on Imaging in Medicine and Neurosciences, May 21-25 2001, UCLA Institute for Pure and Applied Mathematics, Hosts: Eitan Tadmor PhD, Stan Osher PhD, and Tony Chan PhD, **May 24, 2001**.

Society for Industrial and Applied Mathematics (SIAM), Boston, MA

A Tensor Calculus for Surface Comparisons, Guest Speaker, Host: Fred Bookstein, PhD, Minisymposium MS20: Comparative Mathematical Structures in 3D Medical Image Analysis, 3-5 PM, Clarendon Room, **March 4-6, 2002.**

Society for Industrial and Applied Mathematics (SIAM), Boston, MA

Mathematical/Computational Challenges in Population-Based Brain Mapping, Guest Speaker, Host: Monica Hurdal, PhD, Minisymposium MS9: Mapping the Human Brain, 2:15 PM - 4:15 PM, St. James Room, **March 6-8, 2002.**

University of California San Francisco (UCSF), San Francisco, CA

Challenges in Population-Based Brain Imaging: Mapping Brain Development and Disease, Guest Speaker, UCSF Grand Rounds in Psychiatry and Pediatrics, Hosts: Bryna Siegel PhD and Melanie Farley PhD, UCSF Langley Porter Institute, 4:00 PM – 5:30 PM, **October 31, 2001.**

University of California Los Angeles, Institute for Pure and Applied Mathematics

Brain Image Analysis: Recent Advances and Current Mathematical/Computational Challenges, Invited Speaker, Workshop on Scientific Data Mining (SDM2002), January 14-18 2002, UCLA Institute for Pure and Applied Mathematics, Hosts: Chandrika Kamath PhD, Lawrence Livermore Labs., and Padhraic Smyth PhD, UC Irvine, **January 15, 2002.**

University of Minnesota, Minneapolis, MN

Brain Imaging in Healthy and Diseased Populations: Recent Advances and Current Challenges, Guest Speaker, Host: Gordon Legge PhD and Guillermo Sapiro PhD, Cognitive Neuroscience Colloquium, **February 1, 2002.**

Los Angeles Psychiatric Institute (LAPSI), Sawtelle Blvd., Los Angeles, CA

The Child and Adolescent Brain: What Neuroimaging Reveals About Development, Guest Speaker, Host: Regina Pally, PhD, UCLA Neuropsychiatric Institute, 8:00 PM – 9:00 PM, CME Accredited Course, **February 25, 2002.**

Missouri Education Summit, Symposium on Brain Research, Osage Beach, Lake of the Ozarks, MO

Brain Growth in Children and Teens, Keynote Speaker, Organizer: Darlene Robinett, Practical Parenting Partnerships, **April 26-27, 2002.**

Conference on Discrete Geometry in Medicine, Wakulla Springs, FL

Building Large-Scale Brain Atlases for Disease and Genetic Applications: Covariant PDEs and Probability Distributions on Manifolds, Invited Speaker, Host: Monica Hurdal, PhD, Conference on Discrete Geometry with Applications to Science and Medicine, Workshop held by Florida State University Dept. of Mathematics, Focused Research Group (FRG) on Conformal Mapping, Wakulla Springs, FL, **May 16-19, 2002.**

American Academy of Child and Adolescent Psychiatry, San Francisco, CA

Brain Imaging In Normal and Abnormal Development: Recent Advances, Guest Speaker, Host: John Hamilton MD, Workshop on Childhood Onset Schizophrenia, with Judith Rapoport MD, Bob Asarnow PhD, and Nitin Gogtay MD, Hilton San Francisco, 8:00 AM – 11:00 AM, CME Accredited Course, **October 25, 2002.**

Rockefeller University, New York, NY

Brain Imaging In Schizophrenia, Development, and Dementia: Recent Advances and Challenges, Guest Speaker, Host: Maria Karayiorgou MD, Clinical Neuroscience Seminar, 12 noon, **October 30, 2002.**

University of Pennsylvania, Philadelphia, PA

Mapping the Brain in Healthy and Diseased Populations, Guest Speaker, Host: Jim Gee PhD, GRASP Laboratory Seminar, Room 318C, 11:00AM, **November 1, 2002.**

UCLA Life Course Development Seminar, Los Angeles, CA

Brain Mapping in Development, Dementia, and Schizophrenia, Guest Speaker, joint with Tyrone Cannon PhD, Professor and Chair, UCLA Psychology. Hosts: Neal Halfon PhD, Dept. Pediatrics, Patricia Greenfield PhD, UCLA Psychology, and Lenny Rome PhD, Dean of Research, UCLA School of Medicine; UCLA Faculty Center, 12 noon to 2PM, **November 21, 2002.**

UCLA Psychosis Seminar, Dept. Psychology, Los Angeles, CA

New Brain Imaging Strategies for Studying Schizophrenia: Mapping Dynamic, Genetic, and Drug Effects, Guest Speaker. Host: Keith Nuechterlein PhD, Neuropsychiatric Institute, UCLA School of Medicine; 10 to 11AM, **December 6, 2002.**

American Neuropsychiatric Association CME Workshop, Honolulu, HI

Imaging of Brain Development and Schizophrenia: Recent Advances and Challenges, Host: Allan Reiss, M.D., Sheraton Waikiki Hotel, Honolulu, HI, **February 4, 2003.**

UCLA Brain Matters Seminar, Dept. Neurology, Los Angeles, CA

Brain Imaging in Alzheimer's Disease, Schizophrenia, and Development: New Advances and Challenges, Guest Speaker. Host: Catarina de Carvalho, Dept. Neurology, UCLA School of Medicine; Oldendorf Room, 4 to 5PM, **February 10, 2003.**

Sedona Spring Brain Conference, Sedona, AZ

Brain Images of Mental Illness, Host: Tom Woolsey MD, 14th Annual Spring Brain Conference, Sedona, Arizona, **March 15, 2003.**

IPSEN Beaufour Foundation, Paris, France

Dynamics of Gray Matter Loss in Alzheimer's Disease, Mapped with a Population Based Brain Atlas, Hosts: Bradley Hyman, Jean Francois Demonet, Yves Christen, Jacqueline Merveille, Paris, France, **March 17, 2003.**

International Prodromal Research Network, Santa Monica, CA

Mapping Disease Progression in Schizophrenia, Guest Speaker. Host: Ty Cannon, PhD, Director, Center for the Assessment and Prevention of Prodromal States (CAPPS), Casa del Mar Hotel, Santa Monica, CA. **May 2, 2003.**

Human Brain Mapping Morning Workshop, New York, NY

Mapping Brain Degeneration, Host: Ed Bullmore PhD, Empire Complex, Marriott Marquis Hotel, Times Square, New York, NY. **June 19, 2003.**

Dartmouth College, Hanover, NH

Mathematical Challenges and New Directions in Computational Neuroanatomy, Guest Speaker, Host: Mike Gazzaniga MD and Jack van Horn PhD, fMRI Data Center (fMRIDC), Dartmouth College, Hanover, New Hampshire, **July 7, 2003.**

University of Pennsylvania, Philadelphia, PA

Imaging Brain Disease, Neurology Grand Rounds, University of Pennsylvania School of Medicine, Host: John Detre MD. **September 4, 2003.**

University of Minnesota, Minneapolis, MN

Imaging Schizophrenia, Host: Martin Wessendorf PhD, and Linda King. **September 5, 2003.**

Louisiana State University, New Orleans, LA

Imaging Cortical Changes Across the Human Lifespan: Mapping Development, Aging, and Dementia, Workshop on Cortical and Thalamic Plasticity, Organizer: Reha Erzurumlu, Ph.D. and William Guido, Ph.D., Louisiana State University. **November 5, 2003.**

Society for Neuroscience Satellite Symposium, New Orleans, LA

Bioinformatics and Brain Imaging, Workshop on Bioinformatics, Organizer: Robert Williams, Ph.D., University of Tennessee at Memphis, **November 6, 2003.**

INRIA Sophia Antipolis, France

Analyse Mathématique d'Image du Cerveau Humain chez les Sujets Sains et Pathologiques, Hosts: Nicholas Ayache, Director, INRIA Epidaure, and Xavier Pennec, INRIA Epidaure, **November 25, 2003.**

University of California at Irvine (UCI), Irvine, CA

Genes, Brain Structure, and Intelligence. Host: Richard Haier PhD, UC Irvine, **December 4, 2003.**

American Mathematical Society (AMS), Phoenix, AZ

Mathematics of Human Brain Mapping, Host: Ivo Dinov PhD, **January 7, 2004.**

UCLA Medical Center, Los Angeles, CA

Advances in Brain Imaging in Alzheimer's Disease, Invited Speaker in a Workshop for Drew/King Medical Center Medical Students, Host: Jeff Cummings MD, **January 22, 2004.**

Keystone Symposium on Drug Discovery, Keystone, CO

4D Mapping of Brain Change in Alzheimer's Disease and Schizophrenia: New Strategies for Drug Assessment, Invited Speaker in a Symposium on Imaging Technologies in Drug Discovery, Host: Josh Boger PhD, **March 23, 2004.**

University of California Los Angeles, NPI Grand Rounds, Neuropsychiatric Institute

Mapping Brain Changes in Alzheimer's Disease, Schizophrenia and Development, Invited Speaker, UCLA NPI Grand Rounds, Host: Anand Kumar, Ph.D., NPI, **April 6, 2004.**

International Symposium on Biomedical Imaging, Washington, DC

Nonlinear Brain Image Registration, Invited Speaker and Symposium Organizer, ISBI 2004, **April 15, 2004.**

CASE Media Workshop, University of California Los Angeles, Neuropsychiatric Institute

Mapping the Developing Brain, Invited Speaker, UCLA CASE Media Day, Presentations to National Journalists winning CASE Media Scholarships, Host: Dan Page and Roxanne Moster, UCLA Media Relations, NPI, **April 19, 2004.**

University of Southern California (USC), Los Angeles, CA

Brain Imaging in Human Populations: Mathematical/Computational Challenges. Guest Speaker at the Joint Symposium on Neural Computation, Host: Laurent Itti PhD, Univ. of Southern California, **May 15, 2004.**

University of Notre Dame, South Bend, IN

Mapping the Brain in Large Human Populations, Guest Speaker, *Annual Symposium on Quantitative Methods in Psychology*, Host: Prof. Michael Wenger, University of Notre Dame, **May 29, 2004.**

Centre de Recherche en les Mathematiques, University of Montreal, Montreal, Canada

Shape Analysis of 3D Brain Structures, Guest Speaker, Symposium on Mathematical Methods in Brain Mapping, Statistical Society of Canada, Host: Prof. Keith Worsley, Centre de Recherche en les Mathematiques, Montreal, **June 2, 2004.**

Budapest Conference Center, Budapest, Hungary

Mapping Genetic Influences on Brain Structure, Guest Speaker, HBM Breakfast Symposium, Organizer: Kate Watkins PhD, **June 13, 2004.**

UCLA Institute of Pure and Applied Mathematics (IPAM), Los Angeles, CA

Medical & Neuroscience Applications of Computational Anatomy, Guest Speaker and Chair, IPAM Summer School on Mathematics in Brain Imaging (MBI2004), **July 12, 2004.**

New York Academy of Sciences (NYAS), Manhattan, New York, NY

Time-Lapse Mapping of Gray/White Matter Changes over the Human Lifespan using MRI Databases, Invited Speaker and Session Moderator, NYAS Conference on Diffusion Tensor Imaging, Host: John Ulmer PhD and Larry Parsons PhD, **August 19, 2004.**

MICCAI Invited Symposium, St. Malo, France

Mapping Brain Changes in Aging & Alzheimer's Disease, Invited Speaker, Tutorial Workshop at the MICCAI 2004 Conference, Host: Nicholas Ayache PhD, **September 26, 2004.**

IPAM External Advisory Board, 5-Year Review, IPAM, Los Angeles, CA

IPAM Brain Imaging Summer School, Speaker, Presentation, with Michael Miller PhD (Johns Hopkins University), to the UCLA IPAM External Advisory Board, Host: Mark Green PhD, **October 20, 2004.**

ADRC External Advisory Board, UCLA Covel Commons, Los Angeles, CA

Mapping Brain Changes in Alzheimer's Disease & Those At Risk, Speaker, Presentation to the UCLA ADRC External Advisory Board, Host: Jeffrey Cummings MD, **October 23, 2004.**

Eli Lilly Corporate Headquarters, Indianapolis, IN

Mapping Cortical Change in Schizophrenia using Cortical Pattern Matching, Guest Speaker, Prioritized Future Studies Advisory Summit, Host: Gary Tollefson MD PhD (CNS Division Head) and Jeffrey Lieberman MD, **November 1, 2004.**

National Institute of Aging (NIA) Site Visit, Bethesda, MD

Brain MRI and Amyloid PET Scanning in Aging and Dementia, Site Visit Speaker, Host: John Morris MD, **November 3, 2004.**

Mayo Clinic, Rochester, MN

Brain Imaging in Healthy and Diseased Populations, Mayo Clinic Biomedical Engineering Program: Invited Speaker, Host: Clifford Jack MD, Armando Manduca PhD, **November 19, 2004.**

National Institutes of Health (NIH) Kick-Off Meeting for the National Centers for Computational Biology

The UCLA Center for Computational Biology, Plenary Speaker, Hosts: Greg Farber PhD (NCRR), John Haller PhD (NIBIB), **December 8, 2004.**

UCLA Center for Neurotherapeutics

Neuroimaging in Alzheimer's Disease, Guest Speaker, Day of tutorial lectures Hosted by CNT for a group from Forest Pharmaceuticals, Host: Kavita Shankar PhD, UCLA Center for Neurotherapeutics, **March 23, 2005.**

Stanford University, Stanford, CA

Analyzing Brain Changes in Alzheimer's Disease, Schizophrenia, and Development, Guest Speaker, Seminar on Frontiers in Interdisciplinary Biosciences, Bio-X Program, James H. Clark Center Auditorium, Host: Brian Wandell PhD, Dept. Psychology, Stanford University, **April 7, 2005**.

University of Minnesota, Minneapolis, MN

Neuroimaging of Normal and Abnormal Brain Development, Guest Speaker, Conference: "Pathways of Development: Perspectives from Developmental, Cognitive and Affective Neuroscience", Hosts: Chuck Nelson PhD, Erika Hoyt PhD, Center for Neurobehavioral Development, University of Minnesota, **April 22, 2005**.

Killam Lecture: Montreal Neurological Institute, McGill University, Montreal, Canada

Analyzing Brain Changes in Alzheimer's Disease, Schizophrenia, and Development, Guest Speaker, Hosts: Louis Collins PhD, Alan Evans PhD, Bruce Pike PhD, McConnell Brain Imaging Center, McGill University, Canada, **May 24, 2005**.

UCLA Center for Neurotherapeutics

Imaging Disease Progression with Applications to Drug Trials, Guest Speaker, Day of tutorial lectures Hosted by CNT for a group from Forest Pharmaceuticals, extension of earlier talk for a second group of visitors; Host: Kavita Shankar PhD, UCLA Center for Neurotherapeutics, **August 30, 2005**.

Johns Hopkins University School of Engineering and Center for Imaging Science, Whiting School of Engineering, Baltimore, MD

Analyzing Brain Images from Large Human Populations, Invited Speaker, Seminars in Biomedical Engineering, Co-Guest Speaker, James Gee. Ph.D., University of Pennsylvania School of Medicine. Host: Michael I. Miller, Ph.D., Director of the Center for Imaging Science, Johns Hopkins University. **September 28, 2005**.

Hyatt Regency Hotel, Baltimore, MD – Biomedical Engineering Society (BMES2005)

Analyzing Brain Images from Large Human Populations, Hosts: Michael I. Miller, Ph.D. and Alexander Popel Ph.D., Johns Hopkins University. **September 29, 2005**.

Century Plaza Hotel, Century City, CA – Child Neurology Society (CNS)

Mapping Brain Development with MRI, Guest Speaker, Symposium on Structural Neuroimaging, Host: Jeff Neil, M.D., Washington University at St. Louis, Co-Guest Speaker, Peter van Zijl. Ph.D., Johns Hopkins University Kennedy Krieger Institute., **September 30, 2005**.

Skirball Center, Los Angeles, CA – 10th Annual Review of Psychiatry, Semel Institute

Imaging the Developing Brain– Can We See Signs of Risk for Illness?, Luncheon Plenary Speaker (~260 attendees), 10th Annual Review of Psychiatry, Semel Institute, UCLA; Host: Andrew Leuchter, MD; **October 28, 2005**.

Society for Neuroscience One-Day Short Course, Washington, DC

Mapping Disease & Genetic Effects on the Brain by Imaging Human Populations, Plenary Speaker (~100 attendees, with afternoon break-out groups), Host: Tyrone Cannon, PhD; **November 11, 2005**.

**University of Pittsburgh Medical Center, Pittsburgh, PA
Alzheimer's Disease Research Center, Dept. Neurology**

Mapping Brain Changes in Alzheimer's Disease, Development and Schizophrenia, Host: Jim Becker, Ph.D., Alzheimer's Disease Research Center, UPMC. **December 19, 2005**.

American Society of Functional Neuroradiology One-Day Course, San Diego Convention Center, CA

Time-lapsed Grey and White Matter Changes in Normal Aging and Cognitive Disorders, in Short Course on *Structural Grey Matter and White Matter Mapping and the Clinical Neurosciences*, American Society of Neuroradiology; Hosts: John Ulmer MD and Aaron Field MD PhD, **May 4, 2006**.

New York Academy of Sciences, NYU Kimmel Center, New York, NY

Population-Based Mapping of Brain Changes in Aging and Dementia, In: Workshop on *Imaging and the Aging Brain*, Hosts and Organizers: Mony de Leon EdD PhD, Rashid Shaikh MD, Kara-Leigh Dockery MD, **May 18, 2006**.

Collegium Internationale Neuropsychopharmacologicum (CINP) Workshop, Chicago, IL

Time-Lapse Mapping of Brain Changes in Schizophrenia, Invited Symposium Speaker with Chris Pantelis and Eve Johnstone; Host: Jeffrey Lieberman MD, Columbia University, **July 11, 2006**.

Eli Lilly Corporate Headquarters, Indianapolis, IN

Time-Lapse Mapping Reveals Different Disease Trajectories in Schizophrenia Depending on Antipsychotic Treatment, Guest Speaker, Neuroprotection Advisory Board, Host: John Hayes MD (Vice President, Lilly Research Labs) and Jeffrey Lieberman MD, **November 28, 2006**.

American College of Neuropsychopharmacology (ACNP) Invited Symposium, Hollywood, FL

Visualizing Brain Changes in Aging and Dementia, Guest Speaker with Jay Giedd, Nitin Gogtay, Guido Gerig; Host: Nitin Gogtay MD, NIMH Child Psychiatry Branch, **December 7, 2006**.

Santa Monica, CA – American Society for Adolescent Psychiatry (ASAP)

Imaging Normal and Abnormal Brain Development with MRI, Guest Speaker, Host: Mohan Nair, M.D., Sheraton Delfina Hotel, Santa Monica, CA, **March 9, 2007**.

Royal Academy of Sciences (KNAW), Amsterdam, The Netherlands

Development of the Brain, Guest Speaker, Hosts: Eco de Geus • Danielle Posthuma • Dorret Boomsma • Terry Goldberg, Dutch Royal Academy of Sciences, Workshop on Integrating Imaging and Genetics in Cognitive Research, Amsterdam, The Netherlands, **May 9, 2007**.

UCLA Institute of Pure and Applied Mathematics (IPAM), Los Angeles, CA

Brain mapping using deformation morphometry, information theory and diffusion tensor imaging, Guest Speaker and Co-Organizer, IPAM Workshop on Image Processing for Random Shapes: Applications to Brain Mapping, Geophysics, and Astrophysics (RSWS4), **May 25, 2007**.

Alzheimer's Association, Washington, DC

3D and 4D MR imaging of aging and dementia: principles and pitfalls, Alzheimer's Association Prevention Meeting, One Day Course on *Advanced Acquisition and Analysis Methods*, Host: Clifford Jack MD, at the Marriott Wardman Park Hotel, Washington, DC, Saturday, **June 9, 2007**.

Research Triangle Park, North Carolina

Brain mapping using deformation morphometry, information theory and diffusion tensor imaging, Workshop on Computational Anatomy, Host: Laurent Younes, Ph.D., Johns Hopkins University Center for Imaging Science, **July 10, 2007**.

University of Cambridge, United Kingdom

Mapping Brain Development, Host: Ed Bullmore MD PhD, GE Sponsored Symposium on Advances in Brain Imaging, **November 12, 2007**.

Massachusetts Institute of Technology (MIT), McGovern Institute for Brain Research, Boston, MA
Heritability of brain morphology and its applications to psychiatric disease, Host: Charles Jennings, McGovern Symposium, **April 29, 2008**. [cancelled]

Society of Biological Psychiatry (SOBP) Invited Symposium, Washington, DC
Mapping Progressive Brain Changes in an Antipsychotic Trial, Host: Bob McCarley, Harvard CIDAR Center Director, **May 3, 2008**. [cancelled]

National Institutes of Health, Bethesda, MD
HIV Effects on the Brain, Talk at All-Hands Meeting for the National Computational Biology Centers (NCBCs), Lister Hill, NIH Campus, Bethesda, MD, **August 12 2008**.

American College of Neuropsychopharmacology (ACNP) Invited Symposium, Scottsdale, AZ
Dynamics, Genetics and Clinical Correlates of White Matter Changes in Alzheimer's Disease, Guest Speaker with Jay Giedd, George Bartzokis, Nitin Gogtay, Guido Gerig; Symposium Topic: White Matter Changes in Health and Illness, Host: Nitin Gogtay MD, NIMH Child Psychiatry Branch, **December 10, 2008**.

IPAM External Advisory Board, 5-Year Review, IPAM, Los Angeles, CA
IPAM Brain Imaging Summer School, Speaker, Presentation, with Valentina Staneva (Johns Hopkins University), to the UCLA IPAM External Advisory Board, Host: Russ Caflisch PhD, **October 7, 2009**.

Center for Nanotechnology, UCLA (CNSI)
Mathematics in Medical Imaging, Speaker, Presentation, Hosts: Mark Cohen PhD, Paul Weiss PhD, **April 21 2011**.

Center for Nanotechnology, UCLA (CNSI)
Imaging Genomics and the ENIGMA Project, Speaker, Presentation, Hosts: Mark Cohen PhD, Paul Weiss PhD; with Giovanni Coppola and Marcos Novak; **May 12 2011**.

Institute for Digital Research and Education, UCLA (IDRE)
Cross-Campus Projects on Connectomics and Imaging Genetics, Speaker, Presentation, Hosts: Marsha Smith PhD, with Gautam Prasad; **October 4 2011**.

Brain Mapping Organization Board of Directors, UCLA
Uniting Neuroimaging & Genetics: The ENIGMA Project, Presentation to the Ahmanson-Lovelace Brain Mapping Center Board of Directors, Hosts: Roger Woods and John Mazziotta, **May 7 2012**.

Epilepsy Program, UCLA School of Medicine
Analyzing Brain Connectivity, Presentation to the UCLA Epilepsy Program, Reed Neurology, Host: Pete Engel, **May 17 2012**.

ONE MIND Conference, Covel Commons, UCLA
Genetic Analysis of Brain Images from 21,000 People – The ENIGMA Project, Invited Speaker, Organizers: Dan Geschwind MD PhD, General Peter Chiarelli, Congressman Patrick Kennedy. Talk and Panel on Big Science and Data Sharing, **May 24 2012**.

Neurogenetics Affinity Group & Consortium for Neuropsychiatric Phenomics Seminar, UCLA
Genetic Analysis of Brain Images from 21,000 people: The ENIGMA Project, Invited Speaker, Organizers: Nelson Friemer MD and Dan Geschwind MD PhD, Host: Carrie Bearden PhD, Gonda 1357, **June 14 2012**.

National Institutes of Health, Bethesda, MD

Neuroimaging Genetics Workshop, Invited Speaker, Organizers: Thomas Lehner, Ph.D., and Judy Rumsey, M.D., Natcher Building, NIH Campus, **June 20 2012**.

Neuroimaging Summer School, UCLA

Neuroimaging Genetics and the ENIGMA Project, Invited Speaker, Organizer: Mark Cohen, Ph.D. and the Neuroimaging Training Program, UCLA Faculty Center, **July 16 2012**.

Translational Research in Psychiatry (TRIP) Exchange Program, Kick-Off Workshop and Tours, UCLA

Neuroimaging at UCLA, Speaker, Organizers: Jerome Breen (Institute of Psychiatry, London), Nelson Freimer MD and Dan Geschwind MD PhD. Gonda 1357, **September 13 2012**.

Laboratory of Neuroimaging Resource, External Advisory Board Site Visit, UCLA (2 talks)

Connectomics and The ENIGMA Project. Speaker, Organizer: Arthur Toga PhD, Vinay Pai PhD (NIBIB Program Officer), **September 25 2012**.

Center for Magnetic Resonance Research (CMRR), University of Minnesota, Minneapolis, MN

High Field Imaging, Q-Space Diffusion Imaging, and Brain Connectivity. Speaker, Organizer: Kamil Ugurbil PhD, **October 24 2012**.

Bioinformatics Graduate Program, UCLA

Opportunities for Study in Imaging, Genetics, and Connectomics at UCLA. Speaker, Bioinformatics 202 class (“Meet the Professors”), Life Sciences Building, **November 9 2012**.

Memory and Aging Center, UC San Francisco

Meet Paul Thompson: Q & A on Imaging and Genetics, Informal Presentation to Faculty and Staff of the UCSF MAC, Host: Victor Valcour MD, **March 7 2013**.

American Society of Functional Neuroradiology, Charleston, SC

Neurogenomics of Brain Structure & Function, 2013 ASFNR Meeting, Invited Speaker, **March 13 2013**.

Board of Visitors, UCLA School of Medicine

Brain Mapping in Alzheimer’s Disease, Hosts: Gene Washington MD, Dean of the UCLA School of Medicine, and John Mazziotta MD PhD, Chair of Neurology, **May 2013**.

Ritz-Carlton Hotel, Marina del Rey, CA

Future of the Imaging Genetics Center, **May 9 2013**.

NIBIB Council Meeting, Potomac, MD

Brain Imaging and Genomics in 26,000 People: The ENIGMA Project, Invited Speaker for NIBIB Council. Hosts: NIBIB Director and Executive Secretary, Rod Pettigrew MD PhD and Tony Demsey PhD, NIBIB. Bolger Center, Potomac, MD, **May 15-17 2013**.

IMAGEN PEC/PCC, European Imaging Genetics meeting, Marrakech, Morocco, North Africa

The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions, Invited Speaker; Host: Gunter Schumann, MD, Hotel Les Deux Tours, Marrakech, **May 28 2013**.

USC Reception, USC University Park Campus, Los Angeles, CA

The New Institute for Neuroimaging & Informatics at USC, Invited Speaker; Hosts: Max Nikias and Beth Garrett, President and Provost, USC, Doheny Library, **Sept 23 2013**.

Keck/USC Board of Overseers Meeting, USC Zilkha Institute

The ENIGMA Project and the new Institute for Neuroimaging & Informatics at USC, Invited Speaker; Host: Carmen Puliafito MD MBA, Dean, Keck/USC School of Medicine, **Sept 26 2013**.

ECNP Working on Neuroimaging, Hotel Rey Juan Carlos, Barcelona, Spain

The ENIGMA Consortium: Brain Imaging and Genomics in 26,000 People, Invited Speaker; Hosts: Sophia Frangou and Stephen Lawrie, Barcelona, **October 4 2013**.

ACNP Congress, Miami, FL

The ENIGMA Consortium: Meta-Analyzing Neuroimaging and Genetic Data from 125 Institutions, Invited Speaker; Hosts: Thomas Lehner, NIMH and Steven Hyman, Harvard, **October 4 2013**.

USC Board of Trustees, USC University Park Campus, Los Angeles, CA

The USC Institute for Informatics, Imaging Genetics Center and ENIGMA Consortium, Invited Speaker; Host: Beth Garrett & Michael Quick, USC, **November 13 2013**.

USC Signal and Image Processing Institute, USC University Park Campus, Los Angeles, CA

Analyzing Brain Images, Connectomes, and Genomes from 26,000 People: The ENIGMA Consortium, Invited Speaker; Host: Richard Leahy, PhD, **December 18 2013**.

ADRC External Advisory Board Site Visit, USC Health Sciences Campus, Los Angeles, CA

Collaborations between the Institute for Neuroimaging & Informatics and the USC Alzheimer's Disease Research Center, Invited Speaker; Host: Helena Chui, MD, **December 20 2013**.

NIEHS Center for Environmental Health, USC Health Sciences Campus, Los Angeles, CA

Neuroimaging to Reveal Factors that Help or Harm the Brain: Capabilities and Collaborative Opportunities, Invited Speaker for NIEHS Seminar; Host: Ed Avol, MD, Soto Science Building, **January 10 2014**.

Zilhka Neurogenetics Institute, USC Health Sciences Campus, Los Angeles, CA

Brain structural and functional changes, Blood Brain Barrier and the ApoE gene in humans, Invited Speaker; Host: Betza Zlokovic MD PhD, **January 22 2014**.

ASFNR Conference, Miami, FL

Genetics & the Connectome

Host: Meng Law, **February 18 2014**.

Kavli Salon, Huntley Hotel, Santa Monica, CA

The ENIGMA Project

Kavli Foundation Event on Big Data: Practice Across Disciplines. Hosts: Miyoung Chun and Bob Conn, **February 19 2014**.

SBMT Conference, Sydney, Australia

The ENIGMA Project (with Prof. Margie Wright)

Hosts: Perminder Sachdev and Karen Mather, Univ. of Sydney, Australia, **March 18 2014**.

USC Trustee Conference, Palm Springs, CA

The Future of Brain Mapping, Host: Michael Quick and the USC Board of Trustees, La Quinta, CA, **March 29 2014**.

Zilhka Neurogenetics Institute, USC Health Sciences Campus, Los Angeles, CA

The ENIGMA Project: Screening 28,000 People's Genomes, Images, and Connectomes to Discover and Understand Risk Genes, 1st Zilhka Symposium, Invited Speaker; Host: Betza Zlokovic MD PhD, **April 4 2014**.

National Environmental Health Meeting, NIEHS, Los Angeles, CA

Epidemiology with 29,000 Brain Images: The ENIGMA Project
“Environment and Brain” session, Host: Frank Gilliland and Caleb Finch, Crystal Ballroom, Millennium Biltmore Hotel, **April 9 2014.**

IPSEN Foundation, Paris, France

Genetics of the Connectome and the ENIGMA Project, Hosts: David van Essen, Henry Kennedy, Jacqueline Merveile, Yves Christen; **May 5 2014.**

Kavli Foundation and Royal Society, Chicheley Hall, Buckinghamshire, England, UK

The ENIGMA Project, Kavli/GE Salon on Neuro Data without Borders; Host: Miyoung Chun, Ph.D., May 9 2014.

USC Trustee Retreat, Colony Capital, Santa Monica, CA

The ENIGMA Project, Host: Max Nikias and Al Checcio, May 12 2014.

[UC Santa Barbara, Santa Barbara, CA

[The ENIGMA Project, Host: John Hajda, UCSB; **May 27 2014 [canceled]**

Russian National Academy of Sciences, Bordanka Neurosurgical Institute, Moscow, Russia

The ENIGMA Project, Host: Vladimir Zelman and the faculty of the Bordanka Institute, **June 2 2014.**

Skolkovo (Skoltech) Technical University, Moscow, Russia

The Future of Brain Mapping,

Guest Lecture and Workshop Panel on “Brain and Creativity”, Host: Gelena Lifschitz, **June 3 2014.**

IMAGEN Retreat and Steering Committee, Camerino, Italy

The ENIGMA Project, Host: Gunter Schumann, **June 8 2014.**

Chinese National Academy of Sciences, Beijing, China

The ENIGMA Project, East Conference Hall, Beijing Conference Center, Beijing, Wednesday **August 13 2014.**

UK Medical Research Council, Centre for Cognitive Ageing and Cognitive Epidemiology

The ENIGMA Project, Keynote Plenary Lecturer, Host: Ian Deary, CCACE Director, Lecture Theatre F21, Psychology Building, 7 George Square, Edinburgh. **August 27 2014, 1pm.**

Royal Society of Edinburgh, Scotland, UK

“Brain image banks: essential international research infrastructures for the 21st Century”, Keynote Plenary Lecturer, at
“**Development of Brain Image Banks and Age-Specific Normative Human Brain Atlases**”. Hosts: **Joanna Wardlaw and Paul Matthews. August 28, 2014, 4-5pm.**

Novosibirsk, Siberia

The ENIGMA Project, Keynote Plenary Lecturer, Siberian Branch of the Russian National Academy of Sciences, Institute for Cytology and Genetics, Host: Nikolay Kolchanov and Петесов Сергей Викторович, Akademgorodok, Siberia, **Sept. 23 2014.**

Moscow, Russia

The ENIGMA Project, Lecture Presentation, Institute for Information Transmission Problems, Moscow, Host: Prof. Alexander Kuleshov, **Sept. 24 2014.**

Bordeaux, France

The ENIGMA Project, Summer School Lecturer, Host: Dr. Laurent Petit and Dr. Bernard and Nathalie Mazoyer, Sept. 26 2014.

National Academy of Sciences, Institute of Medicine, Washington, DC

The ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions Worldwide, National Academy of Sciences, 2101 Constitution Ave., NW, Washington DC. Host Husseini Manji. Sunday Oct. 19 2014.

Red Rock Country Club, Las Vegas, NV

The Future of Brain Mapping, Host: Tom Jackiewicz and Tony Alamo, USC Vegas Alumni Event, An Evening of Excellence, February 12, 2015.

University of Rotterdam, Netherlands

The ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions Worldwide, Host: Arfan Ikram MD PhD, SS Rotterdam Ship, February 23, 2015.

Free University of Amsterdam [Vrije Universiteit Medical Center, or VUMC], Netherlands

The Dutch ENIGMA Project: Mapping Disease and Gene Effects on the Brain across 185 Institutions Worldwide, Hosts: Lianne Schmaal PhD, and Dick Veltman PhD, February 25, 2015.

Galen Center, Ostrow Department of Dentistry Research Day, Los Angeles, CA

The ENIGMA of the Human Brain: Analyzing 30,000 Brain Images and Genomes from 33 Countries to Discover What Helps or Harms the Human Brain, Host: Yang Chai DDS, PhD, Dept. Dentistry, USC; 2015 Research Day, March 25 2015.

IMAGEN Retreat and Steering Committee, Verona, Italy

The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Gunter Schumann, April 1, 2015.

The Palace of Culture of the Railwaymen, Novosibirsk, Siberia, Russia

Neuroimaging of Brain Changes in Children and Throughout Life: Нейровизуализации головного мозга: Детство, Отрочество, Юность, Зрелость и Старость, 2nd International Conference on Pediatrics and Obstetrics, Host: Natalia Pasman, April 22, 2015.

Institute for Cytology and Genetics, Akademgorodok, Siberia, Russia

The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Prof. Yurii Aulchenko, April 23, 2015.

Child Health Center, Lomonosov Ulitsa, Moscow, Russia

The ENIGMA Project: What Worked, What Didn't, and Future Plans, Host: Prof. Leyla Namasova Baranova, April 24, 2015.

NSAS Connectomics Summer School

Imaging and Analyzing the Human Connectome: A 3-Hour Tutorial, Host: Francesco Pavone, Villy Finaly, Florence, Italy, May 14-15 2015.

Turtle Bay, Oahu, Hawaii

Update and Overview of ENIGMA: Organization & Working Groups, ENIGMA Planning Meeting, **June 12 2015.**

Albert Kruppskolleg, Greifswald University, Greifswald, Germany

How Do Cohort Studies Work? The "Radiogenomics" Academy for Young Scientists, Host: Prof. Norbert Hosten, **Tuesday, June 23, 2015.**

The ENIGMA Consortium: Analyzing 30,000 Brain Images and Genomes from 33 Countries. (evening lecture), Host: Prof. Norbert Hosten, **Tuesday, June 23, 2015.**

National University of Ireland, Galway, Ireland

Cracking the ENIGMA of the Human Brain: Connecting Genes, Brain Scans and Disease in 30,000 People, Host: Gary Donohoe PhD, and Colm MacDonald MD PhD, Invited Lecture for the Opening of the NICOG Centre for Neuroimaging, Cognition, and Genomics, **Friday, July 3 2015.**

Thai Red Cross, Bangkok, Thailand (2 lectures)

Brain Imaging to Understand HIV Effects on Childhood Development

New Findings from the PREDICT Study of HIV in Thailand and Cambodia, Hosts: Victor Valcour MD, and Jintanat Ananworanich MD, Invited Lecture for the Thai Red Cross, Initiation of the HIV Resilience Study, **Friday, August 3 2015.**

Ashville, North Carolina, USA

Two talks: 9:00 - 9:30am **Neurodegenerative Diseases and Genomics**; 11:30-12:00 noon, **What is ENIGMA?**

Host: Meng Law; Sunday Sept. 6 [these 2 talks were broadcast over the internet, i.e. presented virtually].

KAIST, Daejeon, South Korea

The ENIGMA Project: Mapping Disease and Genetic Effects on the Human Brain in 50,000 People Worldwide, Host: JaeSeung Jeong, Keynote lecture at the opening of a new program in Brain and Computing, **Thursday Sept. 24, 2015.**

University of Bordeaux, France

The ENIGMA Project: Mapping Disease and Genetic Effects on the Human Brain in 50,000 People Worldwide, Host: Stephanie Debette, PhD, and Christophe Tzourio, **Tuesday Sept. 29, 2015.**

University of Cuenca, Ecuador

The ENIGMA Project: Mapping Disease and Genetic Effects on the Brain in 50,000 People from 35 Countries Worldwide, Keynote lecture, Host: Natasha Lepore, USC. November 19, 2015.

Main Quad, Health Sciences Campus, Keck School of Medicine, Los Angeles

Note of thanks: Speech Acknowledging Mary and Mark Stevens and the Stevens Family Gift of \$50M to found the Institute for Neuroimaging & Informatics at USC, Wednesday October 7, 2015, 12 noon. Host: Max Nikias, President of USC.

Natcher Center, NIH, Bethesda

The State of the ENIGMA Center for Excellence in Big Data, Host: Mark Guyer and Phil Bourne, BD2K All-Hands meeting, Bethesda, MD, USA, November 13, 2015.

Limonosov Moscow State University (MSU), Moscow, Russia

International Scientific Cooperation, the ENIGMA Consortium, and Brain-Computer Interfaces (joint talk with V. Zelman)

Host: Alexander Kaplan PhD, and the Neuroscience Fund of the Vladimir Putin Family, **December 7, 2015.**

Skoltech University, Moscow, Russia

The ENIGMA Project: Mapping Disease and Genetic Effects on the Brain in 50,000 People from 35 Countries Worldwide, Keynote lecture, Host: Alexander Safonov, Alexander Kuleshov, and Vladimir Zelman. **December 8, 2015.**

Russian National Academy of Sciences

The ENIGMA Project: Investigating Brain Diseases with Imaging and Genetics in 50,000 People

Host: Alexander Petrovich Kuleshov PhD, Director of the Kharkhevich Institute for Information Theory, Moscow, Russian Federation. **December 10, 2015, 9am-12 noon.**

Russian National Academy of Sciences

Expert Panel: “The Future of Technology in Neuroscience”

Host: Alexander Kaplan PhD, Moscow State University, Moscow, Russian Federation. **December 10, 2015, 1-3pm.**

European Molecular Biology Laboratory (EMBL), Cambridge, UK

The ENIGMA Project: Investigating Brain Diseases with Imaging and Genetics in 50,000 People

Host: Peipei Ping PhD, Henning Hermjakob PhD, Directors, Heart BD2K Center of Excellence. **February 22, 2016, 2pm.**

University of Maryland (Keynote Speaker)

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Host: Rao Gullapalli PhD and David Seminowicz PhD, **April 12 2016.**

Natcher Center, NIH, Bethesda, MD

Human Placenta Project

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Host: David Weinberg PhD, **April 15 2016.**

Loews Hotel, Santa Monica, CA

Waterman Symposium in Honor of Michael Waterman’s 75th Birthday

The ENIGMA Consortium: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Hosts: Fengzhu Sun and Eleazar Eskin, Symposium in Honor of Michael Waterman’s 75th Birthday at RECOMB 2016 International Conference.

Hong Kong Convention Centre, Hong Kong, China

The ENIGMA Consortium and AUSSIE: Mapping Human Brain Disease with Imaging and Genetics in 50,000 Individuals from 35 Countries, Hosts: Jeff Looi and Dennis Velakoulis, RANZCP Psychiatry Symposium [Invited Speaker], **May 10 2016.**

Atlanta, Georgia

The ENIGMA Data Blitz: A Summary of This Year’s Progress, ENIGMA All-Hands Meeting [Paul Thompson, Chair], Ritz-Carlton Hotel, Atlanta, GA, USA, **May 13 2016.**

NIH, Bethesda, Maryland

ENIGMA, Big Data and the Connectome, Hosts: Greg Farber and Brad Wise, NIH,

The Human Connectome Project Celebration [Keynote Speaker], **June 20 2016.**

Geneva, Switzerland

ENIGMA: Ongoing and Planned Partnerships with IMAGEN, ENIGMA-IMAGEN All-Hands Meeting [Paul Thompson and Gutner Schumann, Chairs], Geneva, Switzerland, USA, **June 23 2016.**

Geneva, Switzerland

ENIGMA: A Summary of Last Year’s Progress, ENIGMA All-Hands Meeting [Paul Thompson, Chair], Geneva, Switzerland, USA, **June 23 2016.**

Geneva, Switzerland

ENIGMA, Hosts: Gunter Schumann and Uditia Iyengar, International Adolescent Cohort Meeting, Geneva, Switzerland, USA. **Saturday June 25 2016.**

Neuroradiology Department, Intermed Hospital, Ulaan Batar, Mongolia
The ENIGMA Consortium for Worldwide Medicine: Mapping Brain Development and Diseases in 50,000 Individuals from 35 Countries, July 7 2016.

National Center for Maternal and Child Health of Mongolia (NCMCH), Ulaan Batar, Mongolia
The ENIGMA Consortium for Worldwide Medicine: Mapping Brain Development and Diseases in 50,000 Individuals from 35 Countries, July 8 2016.

Shahid Beheshti University, Tehran, Iran
ENIGMA: Mapping Brain Diseases in 50,000 Individuals from 35 Countries, Plenary Lecture at IHBM2016 held in Shahid Beheshti University, Tehran, Host: Mojtaba Zarei, MD PhD, September 22 2016.

University of Vienna, Austria
ENIGMA: Mapping Brain Diseases in 50,000 Individuals from 35 Countries, Plenary Lecture at 5th Biennial Conference on Resting State & Brain Connectivity, Host: Martin Walter MD PhD, September 22 2016.

Broad Institute, Massachusetts Institute of Technology (MIT), Boston, USA
MRI Derived Insights into Neuropsychiatric Disorders: the ENIGMA Consortium, Neurepiomics Conference, Hosts: Stephanie Dabette, Sudha Seshadri, Bernard Mazoyer, Sept. 26 2016.

Chinese Congress of Radiology, Shanghai, China
ENIGMA and International Studies in Imaging and Genetics, Host: Chunshui Yu, Sozhou, China, Oct. 10 2016.

Tianjin Medical University, Tianjin, China
Analysis of Imaging and Genetic Data (Tutorial), Host: Junping Wang and Chunshui Yu, Department of Radiology, Tianjin Medical University General Hospital, Oct. 16 2016.

NIH Site Visit, Sonoma, CA, USA
Progress on the ENIGMA Project, Host: Vinay Pai, NIBIB, Sept. 29 2016.

California Big Data Symposium, Sonoma, CA, USA
The ENIGMA BD2K Center, Host: Joe Ames and Arthur Toga, USC, Sept. 30 2016.

National Institutes of Health, Bethesda
Worldwide Big Data Collaborations: Examples From ENIGMA, Spanning 35 Countries. Host: Jennie Larkin, ADDS, NIH, Bethesda, MD, USA. November 30, 2016.

Moscow Child Health Center, Moscow, Russia (2 lectures)
ENIGMA and Global Brain Imaging, Host: Leyla Namazova and Alexander Baranov, Moscow, December 12 and 13, 2016.

SkolTech (Skolkovo Institute of Technology), Moscow, Russia
ENIGMA-Russia – Global Brain Science and Big Data in Russia and Worldwide, Host: Alexander Kuleshov, President of SkolTech, Moscow, December 14, 2016.

Kona, Hawaii, USA

Keynote Speaker: ENIGMA, Pacific Symposium on Biocomputing, Host: Li Shen, University of Indiana, Jan. 6 2017.

Thai Red Cross, Bangkok, Thailand (2 lectures)

Brain Imaging to Understand HIV Effects on Childhood Development

New Findings from the PREDICT, Resilience, and CIPHER Studies of HIV in Thailand and Cambodia, Hosts: Victor Valcour MD, and Jintanat Ananworanich MD, Invited Lecture for the Thai Red Cross, Initiation of the HIV CIPHER Study; also Panel Workshop for Physicians at the Queen Sirikit Convention Center, Bangkok, **January 20 2017**.

Mysore, India

ENIGMA and Global Consortia

Presentation to the c-VEDA Consortium, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **March 10 2017**.

NIMHANS, Bangalore, India

ENIGMA, Neuroimaging and Genomics in Psychiatric Research

Presentation to the NIMHANS faculty, Educational Day, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **March 11 2017**.

Peninsula Hotel, Beverly Hills Book Club

Brain Mapping in Psychiatric Illness, Presentation to the Beverly Hills Book Club hosted by USC Trustee Julie Kusmiersky, **March 21 2017**.

Mallinckrodt Institute of Radiology (MIR) at Washington University, Saint Louis.

ENIGMA and Brain Imaging of Disease Worldwide, Host: Beau Ances MD PhD, **March 28, 2017**.

Melbourne, Australia

Keynote Speaker for ISBI 2017. ENIGMA and Global Brain Imaging, Host: Gary Egan, Monash University, Australia, **April 21 2017**.

San Diego, California

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Marriott Marquis Hotel, San Diego, CA, **May 16 2017**.

Vancouver, Canada

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Pan Pacific Hotel, Vancouver, Canada, June 17 2017.

Societe des Gens de Lettres, Paris, France

Updates from the ENIGMA Consortium, ENIGMA All-Hands Meeting, Paris, France, Sept. 5 2017.

Nijmegen, The Netherlands

ENIGMA, Keynote Speaker, Cognomics Conference, Hosts: Barbara Franke, Simon Fisher, Radboud University Medical Centre and Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands, Sept. 7 2017.

Huntington Beach, California

ENIGMA and Big Data, Speaker, CA Big Data to Knowledge Conference, Sept. 15 2017.

Washington, DC

ENIGMA, Big Data and Imaging Genomics, Host: Avram Holmes, Ph.D., Yale University, Society for Neuroscience Nanosymposium, Nov. 12 2017.

Washington, DC

ENIGMA and Biomarkers of Degenerative Disease, Host: Marg Sutherland, Ph.D. Program Officer, NINDS, and David Stone, Merck, Inc., Nov. 12 2017.

William B. Kouwenhoven Memorial Lecture, The Johns Hopkins University, Baltimore

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries. Hosts: Archana Venkataraman and Jerry Prince, JHU, Nov. 13 2017.

Brigham Women's Hospital, Harvard University, Boston, MA

The ENIGMA Consortium: Collaborations with the Harvard/MIT National Alliance for Computing (NAC) Center, Hosts: CF Westin PhD, Polina Golland PhD, Ron Kikinis PhD, Nov. 15 2017.

Doha, Qatar

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries, 3rd International Symposium on Functional Genomics, sponsored by Nature Genetics and Sidra Medicine, Host: Khalid Fakhro and Rana Hamada, Dec. 2017.

Calcutta (Kolkata), India

ENIGMA and Global Consortia

Presentation to the c-VEDA Consortium, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), at the Regional Occupational Health Centre, Calcutta, India, **Jan. 19 2018**.

NIMHANS, Bangalore, India

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging & Genomics in 50,000 Individuals from 35 Countries

CME Presentation at Capacity Building Workshop, NIMHANS, Hosts: Gunter Schumann (KCL) and Vivek Benegal (NIMHANS, Bangalore), **Jan. 22 2018**.

Keynote Plenary, SNR 2018, Taipei, Taiwan

Big Data & Precision Medicine, Hosts: Meike Vernooij MD PhD, Erasmus University, Rotterdam, and Sandy Cheng-Yu Chen, MD (Chair, Scientific Program and Vice President, SNR 2018). **March 22 2018**.

2nd Lecture: Challenges for Big Data Neuroimaging Analytics & Resources, Hosts: Meike Vernooij MD PhD, Erasmus University, Rotterdam, and Sandy Cheng-Yu Chen, MD (Chair, Scientific Program and Vice President, SNR 2018). **March 22 2018**.

Oslo, Norway; Plenary Lecture

ENIGMA – how can large scale brain imaging studies reveal insight into mental illness? Update from the ENIGMA project, Host: Ole Andreassen, MD PhD, Conference on Addiction and Mental Health, co-hosted by the Norwegian NFR and NORMENT, including an afternoon workshop on the ENIGMA Consortium. **June 1 2018**.

Singapore

How do common variants affect brain structure? Invited Lecture in the Imaging Genomics Workshop, OHBM 2018 Conference tutorial workshop, Chair: Jason Stein, PhD, University of North Carolina (UNC), **Sunday June 17 2018**.

Cumberland Lodge, Windsor Park, Berkshire, UK (June 27)

and

King's College London, Institute of Psychiatry, Denmark Hill, UK (June 29)

Updates on ENIGMA, Two lectures at the Launch of the King's College London (KCL) Center for Population Neuroscience and Precision Medicine (PONS), Host: Gunter Schumann MD PhD, Head/Co-Chair of the international GIGA, IMAGEN and c-VEDA projects, **June 27 and 29 2018**.

Granada, Spain

Imaging, Genomics and Biobanks: Lessons Learned in the ENIGMA Consortium. Hosts: Mart Sabuncu, Adrian Dalca, Li Shen, MICCAI Workshop, "Beyond Medical Image Computing." **September 20, 2018**.

Tehran, Iran

ENIGMA, Big Data & the Brain: Imaging and Genomics of Brain Diseases in 50,000 Individuals from 35 Countries. Hosts: Mojtaba Zarei & Masoud Tahmasian, Shahid Beheshti University, **September 29, 2018**.

Utrecht, The Netherlands

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 70,000 Individuals from 35 Countries. Host: Hilleke Hulshoff Pol, PhD. Conference to Celebrate the 5th Anniversary of the UBC (Utrecht Biocomputing Centre). **October 1, 2018**.

Los Angeles, USA

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging and Genomics in 70,000 Individuals from 40 Countries. Symposium Chair: Mark Shiroishi, MD. Symposium on Multimodal Imaging at the Society for Brain Mapping & Therapeutics Annual Conference, Los Angeles Convention Center, CA, USA. **March 17, 2019**.

Fukuoka, Japan

ENIGMA and Global Neuroscience. Symposium on COCORO (Japanese Consortium), ENIGMA, and their partnerships. Chair: Ryota Hashimoto, MD PhD. Fukuoka International Congress Center, Fukuoka, Japan. **October 11, 2019**.

NIH Natcher Center, Bethesda, MD, USA

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 90,000 Individuals from 35 Countries, **Keynote Speaker: 2020 National Capital Area TBI Research Symposium, March 2020**.

Chinese Young Scholars Association

ENIGMA, Big Data & the Human Brain: Imaging & Genomics of Brain Diseases in 100,000 Individuals from 45 Countries. **Host: Chao-Gan Yan, Ph.D., Keynote Speaker for the 4th Annual Chinese Young Scholars Symposium**, in association with the OHBM meeting, June 2020 [virtual presentation].

NIMHANS, Bangalore, India

The ENIGMA Consortium: Mapping Human Brain Diseases with Imaging and Genomics in 70,000 Individuals from 40 Countries. **Host: Janardhan Reddy MD, NIMHANS International Symposium in Psychiatry, August 1-2 2020 (canceled due to COVID pandemic)**.

University of Michigan, Ann Arbor, MI, USA

ENIGMA, Big Data & the Human Brain: Imaging & Genomics of Brain Diseases in 100,000 Individuals from 45 Countries. **Host: Ivo Dinov, Ph.D., Keynote Speaker for the [Advanced Computational Neuroscience Network \(ACNN\) consortium](#) Annual Symposium**, Sept. 4 2020 [virtual presentation].

Michigan State University, MI, USA

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 100,000 Individuals from 45 Countries, **Host: Rebecca Santelli, Ph.D.**, October 28 2020 [virtual presentation].

Chinese Academy of Sciences, Beijing, China

The ENIGMA Consortium, Host: Chao-Gan Yan, PhD, talk for the International Big-Data Center for Depression Research, Feb. 22, 2021 [virtual presentation, with Chris Ching, Ph.D.]

William H. Feindel Lecture (Annual Lecture in Honor of MNI Neurosurgeon William Feindel)

ENIGMA, Big Data & the Human Brain: Imaging and Genomics of Brain Diseases in 100,000 Individuals from 45 Countries, Host: **Martin LePage, Ph.D.**, Director of the Quebec Bio-Imaging Network, Canada, March 11 2021 [virtual presentation].

NIH AD Summit, Bethesda, MD, USA

Ultrascale Machine Learning to Empower Discovery in AD Biobanks: Deconstructing Disease Complexity: from Populations to Single Cells, from Genes to Multiscale Models, Hosts: **Erika Tarver, Susana Petanceska, Laurie Ryan**, NIA Program, April 19, 2021 [virtual presentation].

ADSP Program Review, Bethesda, MD, USA

AI4AD: Artificial Intelligence for Alzheimer's Disease, Hosts: **Marilyn Miller and Josh Bis**, April 23, 2021 [virtual presentation].

SOBP Symposium, San Diego, CA, USA

ENIGMA and the PGC: An Update, Symposium at the SOBP Conference, Co-Chairs: **Paul Thompson and Sarah Medland**, April 29, 2021 [virtual presentation].

USC AI Futures Conference, Los Angeles, CA, USA

Image Analysis in Neuroscience, Host: **Yolanda Gil, Ph.D.**, USC AI Futures Symposium on Artificial Intelligence and Data Science, May 3 2021 [virtual presentation].

2021 Alzheimer's Disease Genetics Global Symposium: Pathway to Translation, NIA, Bethesda, MD

Artificial Intelligence Approaches for Discovery in Alzheimer's Disease Biobanks, Hosts: **Margaret Pericak-Vance, Ph.D. and NIA Program**, September 1, 2021 [virtual presentation]. Online here: <https://www.youtube.com/watch?v=97byrXeoJA4>

Annual IMAGEN-PONS meeting, Florence, Italy

Update on the ENIGMA Consortium, Host: Gunter Schumann, MD. September 2, 2021 [virtual presentation].

MICCAI Machine Learning in Clinical Neuroimaging Workshop (MLCN 2021) – Keynote Speaker

AI and Deep Learning in Medical Imaging and Genomics: Lessons from ENIGMA's Global Studies of Brain Diseases, Host: Mostafa Kia Seyed, PhD, [virtual presentation]. September 27, 2021.

ADRC Directors' Meeting 2021

ENIGMA, Host: Oscar Lopez, MD PhD, Director of the Pittsburgh ADRC, and Walter Kukull, MD, Direct of the NACC, National Alzheimer's Coordinating Center. September 27, 2021.

American Society for Functional Neuroradiology (ASFNR) 2021, Invited Lecture, Santa Fe, NM

The ENIGMA Consortium, A lecture in a symposium on data sharing in radiology, Hosts: Greg Zaharchuk and Daniel Baboriak MD, El Dorado Hotel, Santa Fe, NM, September 20, 2021 (in person lecture).

World Medical Imaging Congress (WMIC) 2021, Miami Beach Convention Center, FL

AD imaging and AI - Can Artificial Intelligence and Deep Learning Accelerate Alzheimer's Disease Research? Invited Lecture [virtual presentation], Host: Michelle James, PhD and Lisa Baird, CEO of WMIC 2021, October 8, 2021.

NIA Artificial Intelligence and Machine Learning (AIML) Consortium Kick-Off Symposium

AI4AD: Artificial Intelligence for Alzheimer's Disease, Host: Jennie Larkin, PhD, NIA Program. October 14, 2021.

American Neurological Association (ANA) 2021, Invited Lecture

AI Applications in Alzheimer's Disease, a recording for the online symposium **Artificial Intelligence Applications in the Clinical Assessment of Alzheimer's Disease**, Hosts: Cassie Mitchell PhD and Beau Ances MD, [virtual presentation]. October 19, 2021.

Global Brain Consortium Annual Meeting, Montreal, Canada

A GBC-ENIGMA Partnership on EEG in Parkinson's Disease, Host: Alan Evans, Ph.D., November 22, 2021 [virtual presentation].

American Epilepsy Society (AES) Conference 2021, Chicago, IL

The ENIGMA Consortium, Hosts: Carrie McDonald PhD and Leo Bonilha MD, in person lecture, McCormick Conference Center, Chicago, IL, **December 3, 2021**.

II.B. ADDITIONAL MEETINGS ATTENDED & PLATFORM TALKS:

- International Conference on Visualization in Biomedical Computing, Hamburg, Germany (**Invited Speaker**) 1996
- Medical Robotics and Computer-Assisted Surgery, Johns Hopkins University, Baltimore 1996
- Society for Neuroscience, 1993-
- International Conference on Functional Mapping of the Human Brain, Boston 1996, Copenhagen 1997 (**Invited Speaker**), Montreal 1998, San Antonio 2000 (**Invited Speaker**), New York 2004 (**Invited Speaker**), Toronto 2005 (**Invited Speaker**)
- Pittsburgh Supercomputing Center: Biomedical Image Analysis and Visualization Workshop (**Invited Speaker**) 1998
- 1998 International *BrainMap* Conference, San Antonio, Texas (**Invited Speaker**) 1998

III. MEDIA COVERAGE

III.A. INTERNATIONAL (U.S./Canada)

- Mackenzie D (2000). *The Shape of Madness*, **Discover Magazine**, Jan. 2000 Issue. CIRCULATION: 2.2 Million readers. 8-page Feature Article. Reviewed our research findings in schizophrenia and Alzheimer's Disease, and our computational work in creating population-based digital brain atlases.

III.B. NATIONAL

- Rausch C (2000). *Mapping the Collective Consciousness: Images of the Century*, **Wired Magazine**, Jan. 2000 Issue. Full-page Graphic and Feature. Illustrated our research on encoding patterns of neuroanatomical variability in large human populations.
- Mahoney D (2000). *Insight Section: Advances in Graphical Visualization*, **Computer Graphics World**. Jan. 2000 Issue. Full-page Graphic and Feature. Illustrated our research in visualization of brain imaging data and mapping abnormalities of organization at the human cortex.
- Mahoney D (2001). *Insight Section: Mapping Brain Disease*, **Computer Graphics World**. Feb. 2001 Issue. Full-page Graphic and Feature. Illustrated our research mapping the dynamic profile of tissue loss in schizophrenia.

III.C. REGIONAL

- Gannis M (1999). *Bioinformatics Infrastructure for Large-Scale Analyses*, **Envision**, Fall 1999 Issue, San Diego Supercomputing Center Quarterly Science Magazine. 2-page Feature Article. Reviewed our research developing high-performance algorithms for analysis of brain imaging data in diseased populations.
- Maisel M (1999). *Making Headway in Computational Neuroscience* [Cover Article], **Envision**, Summer 1999 Issue, San Diego Supercomputing Center Quarterly Science Magazine. 2-page Feature Article. Reviewed our research using mathematical algorithms and large image databases to synthesize probabilistic atlases of the human brain.

III.D. PROFESSIONAL

- Lauerman J (2000). *Brain Atlases Reveal Individual Terrain*, Dana Foundation National Newsletter, vol. 10, no. 1, Jan./Feb. 2000. Special Issue on news from the 29th annual Society for Neuroscience meeting in Miami, Florida, Oct. 1999. Highlighted our research on algorithms for early detection of gray matter loss in Alzheimer's Disease.
- Lipton L (2000). *Morphometrics Opens Door to More Precise Brain Studies*, **Psychiatric News** (Newspaper of the American Psychiatric Association). Highlighted our research on structural imaging in schizophrenia, dementia and brain development. May 19, 2000.
- Crutcher K (2000). *A Glimpse into the Future?*, **Alzheimer's Forum** Highlighted our research on mapping brain change in Alzheimer's Disease, presented at the Society for Neuroscience in New Orleans, LA, Nov. 2000.

III.E. NEWSWIRES/NATIONAL NEWSPAPERS/TV NETWORKS

i. The following newswires, TV networks and daily newspapers covered our *Nature* report on **mapping growth in the brains of children**:

- New York Times. *Study: Brains Grow Furiously* (March 9, 2000)
- Washington Post. *Key Brain Growth Goes On Into Teens*, Front Page Article by Curt Supplee (March 9, 2000).
- USA Today. *Kids' Brains Still Growing Into Puberty* (March 9, 2000).
- Los Angeles Times. *Scientists Map Patterns of Growth in Young Brains*, by Science Editor Robert Lee Hotz (March 9, 2000)
- Globe and Mail (Canada). *Scientists Map Growth of Children's Brains* (March 9, 2000); *Brains Develop into Puberty, Study Says* (March 10, 2000), Health Feature Article by Christa Foss.
- Chicago Tribune, *Brain Develops through Age 15, Study Suggests* (March 10, 2000).
- Arizona Republic, *Child Brain Studies Offer New Insights* (March 9, 2000).
- Philadelphia Inquirer, *Brain Not Finished Developing by Age 6, Scientists Now Say* (March 9, 2000).
- San Gabriel Valley Tribune, *Child Brain Study Finds Growth Spurts* (March 10, 2000).
- San Jose Mercury News, *Stunning Brain Changes Traced as Children Mature* (March 9, 2000)
- Press Telegram, *Brain Changes Mapped* (March 9, 2000)
- Watertown Daily Times, *Study: Brain Growth Goes on Into Teens* (March 9, 2000).
- Cincinnati Post, *Brains Continue to Grow: Study: Intellect in Teens Doubles* (March 9, 2000).
- San Francisco Chronicle, San Diego Union Tribune, Las Vegas Sun, Contra Costa Times, Miami Herald, Popular Science Magazine, and other AP syndicates
- Beloit Daily News, *Brains Grow Well Into Puberty* (March 10, 2000).

International:

- The Times of India (New Delhi). *Scientists Map Children's Brain Development* (March 13, 2000); also *Study: Brains Grow Furiously* (March 11, 2000); reprinted in Heart Care Foundation of India (March 2000 Issue): *Children's brains grow furiously: Study*
- Indian Express (Bombay) *Scientists Map Children's Brain Development* (March 10, 2000).
- News International (Pakistan). World News Section. *Children's Brains* (March 9, 2000).
- Irish Examiner (Ireland). *Brain Grows at Dramatic Rate into Puberty* (March 10, 2000).

- Swedish News (Sweden). [in Swedish:] *Tonåren avgörande för att utveckla hjärnkapaciteten* (March 24, 2000).
- Polish Newswire (Poland). [in Polish:] *Rzeczpospolita*, Nr. 61 (March 13, 2000). *Neurobiologia: Dopiero po 20. roku życia ostatecznie kształtują się emocje, samokontrola i zdolność empatii: Życie wewnętrzne mózgu*, by Zbigniew Wojtasinski (March 13, 2000).
- Spiegel Online (Germany). [in German:] *Neurologie: Gehirnentwicklung erfolgt noch bis zur Pubertät* (March 10, 2000).
- Periódico Público (Mexico). [in Spanish:] *Año III, número 907: El cerebro cambia en la adolescencia: Si se desarrollan destrezas en esta época, quedarán incorporadas de por vida* (March 10, 2000).
- Associated Press Newswire. *Study: Brains Grow Furiously* (March 9, 2000).
- Reuters Newswire. *Scientists Map Children's Brain Development* (March 8, 2000).
- ReutersHealth Newswire. *Brain Development Revealed in 4-D* (March 8, 2000).
- United Press International (UPI) Newswire. *Scientists Map Brain Growth Patterns* (March 8, 2000).
- UC Newswire. *Scientists Map Brain Development in Four Dimensions, Revealing Stage-Specific Growth Patterns in Children*, Article by Alan Eyerly (March 10, 2000).
- UCLA Today. *Guide to Optimal Learning: Scientists Track Growth of Human Brain*, Article by Alan Eyerly (April 4, 2000).
- UCLA Magazine. *Lifelong Learning*, (Summer 2000 Issue; June 30, 2000).
- ABC News. *Scientists Map Brains of Kids*.
- MSNBC News. *Scientists Map Brain Development: Technique Could be used in Alzheimer's Treatment* (March 8, 2000)
- Fox News. *Scientists Map Brain's Development* (March 8, 2000).
- WebMD.com. *New Tool Shows How a Child's Brain Grows: May Some Day Help Doctors Assess Children's Development*, Front Page Article by Daniel J. DeNoon, WebMD Medical News (March 14, 2000).
- CNEWS Canadian News Network. *Fine-Tuning the Mind: Children's Brains Grow Furiously Into Puberty* (March 9, 2000)
- NewsNow Health Network, Johns Hopkins IntelliHealth Network, About.com News Network
- HealthScout News Network. *Brain Growth Goes Into the Teen Years: New Study Shows Development Up to Age 15* (March 13, 2000)
- DrKoop.com and Medical PressCorps News Service. *Scientists Map the Growing Brain*, by Paul Candon (March 9, 2000)
- Education Week. *Study Suggests that Brain Growth Continues into Adolescence*, by Linda Jacobson (March 22, 2000)
- Education Week. 2nd Article. *Special Feature on Teenage Brain Development*, by Linda Jacobson (October 4, 2000)
- Education Week. 3rd Article. *Letters to Editor*, by Gladys Lipton (October 22, 2000). Highlighted our research and its relevance to current policy in teaching foreign languages.
- Youth Today. *Message from Teen Brains: It's Not Too Late!* by Diana Zuckerman (April 2000 Issue); reprinted by the National Center for Policy Research for Women and Families, *News You Can Use on Children's Health*, April 2000.
- News Primedia: News in the Workplace. *Study Shows Brains Growing Drastically During Childhood* (March 2000).
- The Complexity Digest. *How Do Brains of Children Grow?* by Dean LeBaron and Gottfried J. Mayer (March 18, 2000).
- Pittsburgh Post-Gazette. *What teens do may affect how their brains are built: Scientists say brains are 'pruned' until age 19 or 20, but it's not clear what determines what's lopped off*, By Rachel Smolkin, Post-Gazette National Bureau. Sunday, May 7, 2000.
- Brainconnection.com. *Brain Study May Provide Some Help for Educators*, Gargi Talukder, Stanford University, June 16, 2000.

- Focus Magazine (International; Milan, Italy). *Special Feature on Brain Development and Childhood Onset Schizophrenia*, by Amelia Beltramini, Science Editor (to appear, Fall 2000)
- Offspring Magazine (National & International). Front Page/8-page feature. *How to Help Your Kid Excel*, by Shannon Brownlee and Lisa Kalis. Highlighted our research charting brain growth in children; interview on brain development in children. Dec. 2000/Jan. 2001 Issue.
- Seattle Chamber Magazine. *Feature Article: Brain Research Reveals Kids' Key Periods for Learning*, Interview. Jan. 2001 Issue.

ii. Coverage of National Academy of Sciences Workshop, May 2001

- Reuters Health Newswire. *Brain Scan Technology Poised to Play Policy Role*, by Todd Zwillich, Washington, May 2, 2001.
Reprinted in: MEDLINE Plus (News), June 2001; Hoosier Times, June 5, 2001; Autism Digest Magazine, May 4, 2001.
- Washington Post. Front Page Article. *Are Teens Just Wired That Way? Researchers Theorize Brain Changes Are Linked to Behavior*, by Shankar Vedantam, Washington Post Staff Writer. Sunday, June 3, 2001; Page A01.
Reprinted in:
 - San Francisco Chronicle. *Theory says teens wired to take risks; Researchers think rebelliousness may be linked to brain changes*, <http://www.sfgate.com/cgi-bin/article.cgi?f=/chronicle/archive/2001/06/05/MN14265.DTL>. June 5, 2001.
 - MSNBC News. *Are Teens Just Wired That Way?* June 6, 2001.
 - Detroit News. *Brain Changes May Affect Teen Behavior*. June 7, 2001.
 - Orlando Sentinel. July 1, 2001.
 - Boston Globe.
 - Quad-City Times, Iowa. *Maybe Teens are Just Wired That Way: Changes In Brain Could Account For Erratic Behavior*. Section: Health, Page A5. Sat. June 9, 2001.
Also reprinted in *Today* (Magazine of the International Child and Youth Network; June 5, 2001)
- Aquilone News (Italy). *Lo studio di due ricercatori Usa: cambiamenti radicali tra adolescenza e maturita'*, by Alessandra Farkas. June 2001.
- Galileo News (Italy). *ADOLESCENZA: La rabbia dei teen-ager? E' il cervello che muta*. June 4, 2001.
- Il Giornali di Vicenza (Italy). *Adolescenti scapestrati? Macché ormoni è tutta colpa del cervello*. June 4, 2001.
- Medicina Y Familia (Peru). *La adolescencia sería un periodo crítico para el cerebro*. June 2001.
- Chicago Tribune. *The Teen Brain Theory*. By Meghan Mutchler Deerin, Chicago Tribune Health Section. August 28, 2001.

iii. Coverage of Schizophrenia Paper, Proceedings of the National Academy of Sciences, Sept. 2001

- Reuters Health (New York). *Study charts path of brain damage in schizophrenia*. By Amy Norton. Sept. 24, 2001.
- ABC Newswire. *Mystery of the Mind, New Study Provides Clues as to What Causes Schizophrenia*. By *Jenette Restivo*. Sept. 24, 2001.
- UPI Newswire. *Doctors Map Schizophrenia Progression*. By Norra MacReady. Sept. 24, 2001.
- Reuters Health Professional Newswire (Westport, CT). *Spreading waves of gray matter loss occur in early-onset schizophrenia*.

- Yahoo Newswire. *MRI Sheds New Light on Schizophrenia. Destruction of "gray matter" in the brain may lead to debilitating mental illness.* Sept. 24, 2001.
- BBC News, England. *Schizophrenics suffer brain 'forest fire'.* Sept. 25, 2001.
- Aerzte Zeitung. *Gehirnverlust breitet sich wie eine Welle aus. Neue MRT-Diagnostik bei Schizophrenie-Kranken / Verlauf des Substanzverlusts über fünf Jahre nachgezeichnet.* Sept. 24, 2001. [in German]
- Wissenschaft Online. *Die Nebel lichten sich: Hirnveränderungen bei Schizophrenie.* Sept. 25, 2001. [in German]
- Science Daily. *UCLA Researchers Map How Schizophrenia Engulfs Teen Brains.* Sept. 25, 2001.
- Health Media/Yahoo Headlines. *Schizophrenic brain images "offer hope for new treatments".* Sept. 26, 2001.
- Toronto Star. *A Disturbing Report on A Cruel Disease.* By Jay Ingram, Science Correspondent. Sept. 30, 2001.
- Dr. Koop.com. *Scientists Map Schizophrenia's Destruction.* By Lee Hickling, drkoop.com Health Correspondent. Oct. 1, 2001.
- Mental Health Weekly. *MRI Reveals Brain Changes Associated with Schizophrenia,* vol. 11, no. 37. Oct. 1, 2001.
- Nature Reviews Neuroscience. *Psychiatric Disorders: Mapping grey matter.* By Rachel Jones. Nature Reviews Neuroscience vol. 2, no. 11. November 2001 Issue.
- Clinical Psychiatry News. *NOVEL MRI TECHNIQUE: Childhood Schizophrenia Starts as Wave of Tissue Loss.* By Norra MacReady, International Medical News Group, Los Angeles Bureau. To appear.
- Neuropsychiatry Reviews. By Liz Lipton and Peter Doskoch. To appear.

iv. Coverage of Genetics, Brain Structure and Intelligence Paper, Nature Neuroscience, Nov. 2001

The following newswires, TV networks and daily newspapers in 20 countries covered our *Nature Neuroscience report on genes, brain structure and IQ:*

Discovery Channel (video interview, Nov. 16, 2001; 3 minutes)

Additional Press Coverage:

New York Times (November 5, 2001)

Scientific American (November 7, 2001)

Science (November 16, 2001)

Nature Neuroscience Cover (November 25, 2001)

BBC World Service Radio Broadcast (November 6, 2001)

National Geographic (November 8, 2001)

Reuters Health Professional Newswire (November 5, 2001)

Reuters Health Consumer News (November 5, 2001)

Genome News Network (with images; November 9, 2001)

UPI Newswire (November 5, 2001)

BBC News (London; November 5, 2001)

Dallas Morning News (January 14, 2002)

Frankfurter Allgemeine Zeitung (Germany; November 5, 2001)

Frankfurter Allgemeine Zeitung [2nd Article] (Germany; November 13, 2001)

Ha'aretz (International Newspaper of Israel; in Hebrew; November 11, 2001)

Stern (Germany; November 15, 2001)

Hospodársky Denník (Slovakian News Service; in Slovak; November 21, 2001)

Tiscali News (in Czech; November 11, 2001)

Pantax News (in Czech; November 25, 2001)

Klik News Magazine (Croatia; in Serbo-Croat; November 8, 2001)

Ekologija News (Croatia; in Serbo-Croat; November 9, 2001)

Vecernji Editorial (Croatia; in Serbo-Croat; November 18, 2001)

Radio Liberty (in Russian; November 6, 2001)

La Nacion (Argentina; in Spanish; November 6, 2001)
Cadime News (Argentina; in Spanish; November 6, 2001)
Hersenletsel News (The Netherlands; in Dutch; November 10, 2001)
Medisch Contact (The Netherlands; in Dutch; November 9, 2001)
Mozon News (Norway; in Norwegian; November 6, 2001)
Union Radio (Venezuela; in Spanish; November 7, 2001)
Venezuela Innovadora (Caracas, Venezuela; in Spanish; November 8, 2001)
Inforcyt News (Ecuador; in Spanish; November 9, 2001)
Medicentrum Hungary (Budapest; in Hungarian; November 8, 2001)
Origo News (Hungary; in Hungarian; November 7, 2001)
Gondola News (Hungary; in Hungarian; December 26, 2001)
Elender News (Hungary; in Hungarian; November 8, 2001)
Hirek News (Hungary; in Hungarian; November 8, 2001)
Imperial Network News (Skopje, Macedonia; in Serbo-Croat, Macedonian variant; November 8, 2001)
Shanghai News (China; in Chinese; November 9, 2001)
Biosino Health News (China; in Chinese; November 5, 2001)
Kordic News (Korea; in Korean; November 5, 2001)
Vietnam Express (Vietnam; in Vietnamese; November 6, 2001)
Vietmedia News (Vietnam; in Vietnamese; November 16, 2001)
Prometheus News (Brazil; in Portuguese; November 11, 2001)
Oficina Informa News (Brazil; in Portuguese; November 10, 2001)
Free ML News (Japan; in Japanese; November 12, 2001)
Blaxos News (Greece; in Greek; November 7, 2001)
Estonian Genome Foundation (Estonia; in Estonian; November 5, 2001)
La Tercera (Chile; in Spanish; January 10, 2002)
El Norte de Castilla News (Spain; in Spanish; January 10, 2002)
Rheinische Post (Germany; November 5, 2001)
Heise Editorial, with images (in German; November 6, 2001)
Der Tagesspiegel (in German; November 8, 2001)
Aerzte Zeitung (Germany; November 6, 2001)
Expedition Zone News (in German, with images; November 6, 2001)
RAI News (Italy; November 10, 2001)
KW Newswire (Italy; November 15, 2001)
La Nazione (Rome, Italy; November 4, 2001)
La Stampa (Italy; November 5, 2001)

Clarín News Service (Italy; November 6, 2001)
EC Planet News Service (Italy; November 6, 2001)
Yahoo France (in French; November 7, 2001)
Hindustan Times (India; November 6, 2001)
New Scientist (November 6, 2001)
New Scientist (2nd article; November 10, 2001)
Schweizerische Depeschagentur AG (SDA) (Switzerland; November 4, 2001)
El Mundo Salud (Spanish; November 5, 2001)
BBC Mundo (BBC World Service Spanish version; November 6, 2001)
Presstext Austria (Austria; in German; November 15, 2001)
Oman Observer (Oman; November 6, 2001)

The Independent (England; November 5, 2001)
The Scotsman (Scotland; November 5, 2001)
Daily Mail (London; November 6, 2001)

The Mirror (London; November 5, 2001)
 Daily Californian (November 5, 2001)
 Western Mail and Echo (November 5, 2001)
 Western Daily Press (Bristol, England; November 5, 2001)
 Ananova Newswire (November 5, 2001)
 Courier Mail (Australia; November 5, 2001)
 Lexington Herald (Kentucky; November 5, 2001)
 Belfast News (Ireland; November 5, 2001)
 Herald Sun (November 8, 2001)
 The Age (Australia; November 5, 2001)
 Cosmiverse News (November 5, 2001)
 Jewish World Review (November 9, 2001)
 New York Times (2nd article; November 11, 2001)
 CBS News (November 19, 2001)
 Manila Bulletin (Philippines; November 15, 2001)
 Singles Connection News (November 2001)
 Dyslexia Teacher (November 2001)
 Science and Spirit Magazine (Jan./Feb. 2002)
 Biological Psychology Newsletter (December 19, 2001)

v. Coverage of Alzheimer's Disease Paper, *Journal of Neuroscience*, Feb. 2003

The following newswires, and daily newspapers covered our *Journal of Neuroscience* report on video mapping of the progression of brain changes in Alzheimer's disease:

New York Times. *New Method Aids Evaluation of Alzheimer's Drugs.* By Erica Goode. February 6, 2003.
Wall Street Journal. *Alzheimer's Patients Show Rapid Brain-Cell Erosion.* By Bob McGough. February 6, 2003.
Boston Globe. *Inside the damaged brain. New dynamic imaging techniques provide a deeper look at Alzheimer's and schizophrenia.* By Robert Adler. May 6, 2003.
USA Today. *Made in her Mother's Image?* By Kathleen Fackelmann, March 12, 2003.
 Reuters Newswire. *Scans Show Dramatic Brain Cell Loss in Alzheimer's.* By Maggie Fox. February 6, 2003.
 Reuters Italy. *Salute: risonanza scopre come procede Alzheimer, risultati online.* February 6, 2003.
 ESS Finnish News (Finland). *Alzheimer etenee luultua nopeammin.* February 6, 2003.
 Dr. Koop. *New Video Technique Allows Tracking of Alzheimer's.* February 6, 2003.
 Houston Chronicle. *Vast loss of brain cells shown in Alzheimer's.* February 6, 2003.
 Charlotte Observer. February 6, 2003.
 South African Broadcasting Corporation News. *Scans Show Dramatic Brain Cell Loss in Alzheimer's.* February 6, 2003.
 International Herald Tribune (France). *Videos Can Now Track Alzheimer's.* February 6, 2003.
 Sydney Morning Herald (Australia). *Scans Show Dramatic Brain Cell Loss in Alzheimer's Patients.* February 6, 2003.
 New York Times. *Computer images show the progressive damage of Alzheimer's disease in the human brain.* (2nd report, Feb. 11, 2003)
 Los Angeles Daily News. *MRIs help chart the path of Alzheimer's disease.* (Feb. 10, 2003)
 Dallas Morning News (Feb. 14, 2003; Color Feature)
 El Mundo Salud, Spain. *VIDEOS TRIDIMENSIONALES: Capturan en imágenes el 'viaje' del Alzheimer a través del cerebro.* (Feb. 6, 2003)
 Hurriyet News, Istanbul, Turkey. *Alzheimer işte böyle yayılıyor.* (Feb. 9, 2003)
 Ultimo Segundo News, Sao Paulo, Brazil. *Nova técnica mostra expansão do mal de Alzheimer no cérebro de pacientes.* (Feb. 10, 2003)
 La Tercera, Sanitago de Chile, Chile. *Con videos de cerebro: Observan avance del Alzheimer.* (Feb. 9, 2003)
 24 Ur News, Slovenia. *Alzheimerjeva bolezen uničuje celice.* (in Slovene; Feb. 21, 2003)

Aftenposten News, Norway. *Skremmende bilder av Alzheimers herjinger*. (Feb. 6, 2003)

Moss Dagblad, ANB News, Oslo, Norway. *Ødelegger hjernen i rekordfart*. (in Norwegian; Feb. 7, 2003)

Geoscience News. *Alzheimer in lebenden Gehirnen gefilmt: Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung* (in German; Feb. 10, 2003)

ESS Finnish News (in Finnish; Feb. 6, 2003).

Rzeczpospolita News. *Jak postępuje choroba Alzheimera*. (in Polish; Feb. 10, 2003).

The Times of India. *Scans show brain cell loss in Alzheimer's*. (Feb. 6, 2003)

Corner Mix News, Croatia. *Alzheimer brzo i postojano uništava moždane stanice*. (in Serbo Croat; Feb. 12, 2003)

Presstext Austria, Austria. *Videos zeigen Alzheimer-Zerstörung in lebenden Gehirnen: Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung*. (in German; Feb. 6, 2003)

Nzoom News Service, New Zealand. *Alzheimer's brain cell loss revealed*. (Feb. 8, 2003)

Business Weekly, England. *Cambridge role in key finding on Alzheimer's*. (Feb. 10, 2003)

Ottawa Citizen, Canada. *Scans chart ravages of Alzheimer's: Tests could help doctors evaluate treatments*. (Feb. 7, 2003)

La Nacion, Argentina. *Novedoso método para evaluar el Alzheimer: Permite ver el avance de la enfermedad* (Feb. 11, 2003)

NAPS News Service, Berlin. *Hilfe für Pharmaunternehmen bei Medikamenten-Evaluierung* (in German; Feb. 10, 2003)

La Opinion. *Nueva tecnología para diagnosticar Alzheimer: Un grupo de científicos logra examinar el cerebro vivo y comprobar la destrucción que este mal produce en su tejido celular*. (in Spanish; Feb. 10, 2003)

Reuters Photo (Feb. 6, 2003)

Medscape News. *3D-Video MRI Shows Progression in Alzheimer's Disease* (Feb. 20, 2003)

Il Nuovo, Italy. *Fotografata l'avanzata dell'Alzheimer: La ricerca pubblicata su Journal of Neuroscience spiega come il morbo aggredisce e disintegra il cervello*. (Feb. 10, 2003)

Corriere Canadese, Canada. *Inarrestabile Alzheimer: La malattia, secondo gli studiosi, avanza come una colata lavica*. (in Italian; Feb. 11, 2003)

Yahoo Italia Notizie/ANSA News Service. *Salute: Risonanza Scopre Come Procede Alzheimer, Risultati Online* (Italy; Feb. 7, 2003)

Farmacia Italia. *Medicina: Alzheimer, Malattia avanza come colata lavica*. (Italy; Feb. 7, 2003)

Italia Salute. (Italy; Feb. 7, 2003)

Nethaber News. *Alzheimer ipte böyle yayılıyor*. (in Turkish; Feb. 10, 2003)

Todoancianos News. *Capturan en imágenes el viaje del Alzheimer a través del cerebro*. (in Spanish; Feb. 9, 2003)

Die Virtuelle Apotheke. *Neue Möglichkeit klinischer Versuche bei Alzheimer*. (in German; Feb. 7, 2003)

Informationsdienst Wissenschaft. *Fortschreiten der Alzheimerkrankheit erfolgreich abgebildet*. (in German; Feb. 7, 2003)

Medica Portal. *Fortschreiten der Alzheimerkrankheit erfolgreich abgebildet*. (in German; Feb. 11, 2003)

Medica Portal. *Alzheimer-Defizite auf Bild gebannt*. (2nd story; in German; Feb. 22, 2003)

Aerztliche Praxis. *Fortschreiten der Krankheit wird sichtbar gemacht: Neues Verfahren gibt Auskunft über Alzheimer-Status* (in German; Feb. 14, 2003)

The Mercury, Hobart, Australia. *Alzheimer's rapid brain cell loss*. (Feb. 6, 2003)

Alzheimer's Forum. *Alzheimer's Destruction Live*. (Feb. 10, 2003)

Alzheimer Online. *Una novedosa técnica de imágenes tridimensionales en movimiento ha permitido por primera vez captar en vivo la evolución del Alzheimer en el cerebro*. (in Spanish; Feb. 9, 2003)

Senior Journal. *Dramatic 3-D Images Show How Alzheimer's Engulfs Brain*. (Feb. 7, 2003)

Alzheimer's Daily News. *Brain Cell Loss in AD Patients*. (Feb. 7, 2003)

Advance News. *3-D Video from MRI Tracks Alzheimer's*. (Feb. 20, 2003)

Health on the Net Foundation. *New Video Technique Allows Tracking of Alzheimer's* (Feb. 6, 2003)

Health and Age. *Tracking Alzheimer's in the living brain*. (Feb. 14, 2003)

Intelihealth News. *MRI Study Shows Progress Of Alzheimer's*. (Feb. 12, 2003)
Financial Times Newswire. *Wall Street Journal: In Alzheimer's erosion sweeps over the brain*. (Feb. 6, 2003)
CNS News. *New Magnetic Resonance Imaging Technique Map Alzheimer's Progression*. (March 2003).
PR Newswire (Apr. 24, 2003)
1st Vitality (Feb. 7, 2003)
American Health Assistance Foundation (Feb. 2003).

vi. Coverage of Methamphetamine Paper, Journal of Neuroscience, June 30 2004

The following newswires, and daily newspapers covered our *Journal of Neuroscience* report mapping brain deficits caused by methamphetamine abuse:

Discover Magazine. Year in Science. Selected as one of the Top 100 Scientific Discoveries of the Year 2004.
New York Times. *This is Your Brain on Meth: A "Forest Fire" of Damage*. By Sandra Blakeslee. July 20, 2004.
USA Today (July 21, 2004).
Taipei Times (July 20, 2004).
Spartanburg Herald, South Carolina (July 20, 2004).
Toronto Star, Canada (July 24, 2004).
Washington Blade, DC (July 23, 2004).
Sun Herald, Mississippi (July 22, 2004).
Arizona Central, AZ (July 22, 2004).
Omaha World Herald (July 25, 2004).
TV News Report (Dec. 10, 2004). Aired Dec. 10-14 on KGO-ABC (San Francisco), KGUN-ABC (Tucson, AZ), WHAS-ABC (Louisville, KY) and KAIT-ABC (Jonesboro, AR). [ScienCentral, a New York-based science news production company, produced and distributed stories on the study to ABC and NBC affiliates nationwide].

vii. Coverage of HIV/AIDS Paper, Proceedings of the National Academy of Sciences, Oct. 11 2005

Press from around the world reported Oct. 11-17 on our *PNAS* report mapping brain deficits caused by **HIV/AIDS**. This study found that AIDS selectively ravages the brain, causing 15 percent tissue loss even in seemingly healthy patients on powerful drug regimens. The imaging research is the first to pinpoint the damage inflicted by AIDS on brain regions that control movement, language and judgment. Print media covering the research included:

Ärzte Zeitung (Germany),
El Mundo (Spain),
Khoa Hoc Press (Vietnam),
Le Monde (France),
New Oriental Press (China),
Pittsburgh Tribune Review,
The Telegraph (London) and
VN Express (Vietnam).

Newswire coverage included AFP (Associated Foreign Press; French, Spanish, Italian, and Portuguese), BBC News, Associated Press, City News Service, DeHavilland Information Service (U.K.), Health Day News and Ivanhoe Newswire. Radio coverage included KPCC 89.3FM, and KPBS 89.5FM (San Diego). Web coverage of various wire reports included 13wham.com, 365Gay.com, ABC.com, ACTU.Wanadoo.fr, Advocate.com, Avert.org, Azprensa.com, bol.ops-oms.org, Biz.yahoo.com, TheBodyPro.com, CapitolHillBlue.com, Cyberpresse.ca, DrKoop.com, DrudgeReport.com, E-Licco.com, EIndependiente.com, Forbes.com, Fr.News.Yahoo.com, France2.fr, Gay.com, GayNews.it, Habersaglik.com, HealthCentral.com, Health24.com, Hetnieuwblad.com, HLN.be, Innovations-Report.com, Intramed.net, KaiserNetwork.org, KCRW.com, KGET.com, KLAS.com, KPHO.com, KRON.com, KVVU.com, Lanacio.com.ar,

La-Croix.com, Lex18.com, JoinTogether.org, Neuf.fr, News.Yahoo.com, Newswatch50.com, Nouvelobs.com, RTLNews.com, Terretorioidigital.com, TheSunlink.com, Univision.com, Voila.fr, WFIE.com, WWAY.com and Xagenait.

“AIDS Finds Sanctuary from Drugs in Brain”

<http://www.telegraph.co.uk/news/main.jhtml?xml=/news/2005/10/11/waids11.xml&sSheet=/news/2005/10/11/ixworld.html>

“Scans Show How HIV Attacks Brain”

<http://news.bbc.co.uk/1/hi/health/4319952.stm>

“HIV Thins Regions of the Brain”

<http://www.healthday.com/view.cfm?id=528460>

“HIV Reduces Brain Tissue”

http://www.advocate.com/news_detail_ektid21606.asp

viii. Coverage of Genes/DTI/IQ paper, Journal of Neuroscience, March 2009

Press from around the world, including the New Scientist (March 14 2009) and National Public Radio (NPR) reported on our study that mapped, for the first time, how genes affect IQ and brain fiber integrity. Britain’s *Daily Telegraph* reported the news on March 12 and an article also appeared on the Channel 4 (United Kingdom) website

“High Speed Brains are in the Genes”

<http://www.newscientist.com/article/mg20126993.300-highspeed-brains-are-in-the-genes.html>

“Inherited Genes Play a Far Greater Role in Intelligence than was Previously Thought, New Research Suggests”

<http://www.channel4.com/news/articles/society/health/intelligence+genes+theory+backed/3026007>

“People with Thicker Heads 'Are More Intelligent”

<http://www.telegraph.co.uk/scienceandtechnology/science/4977342/People-with-thicker-heads-are-more-intelligent.html>

Original - <http://www.loni.ucla.edu/~thompson/HARDI-IQ/MC-PT-GeneBrainIQ2009.pdf>

NPR – “Smart People Really Do Think Faster,” March 20, 2009

<http://www.npr.org/templates/story/story.php?storyId=102169531>

The Daily Bruin – “Genetics plays vital role in intelligence,” March 31, 2009

<http://www.dailybruin.com/index.php/article/2009/03/genetics-plays-vital-role-intelligence>

Science Daily – “More Evidence That Intelligence Is Largely Inherited: Researchers Find That Genes Determine Brain's Processing Speed,” March 18, 2009

<http://www.sciencedaily.com/releases/2009/03/090317142841.htm>

New Scientist - “High Speed Brains are in the Genes,” March 11, 2009

<http://www.newscientist.com/article/mg20126993.300-highspeed-brains-are-in-the-genes.html>

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/NSimg004.jpg>

Channel 4 News - “Inherited Genes Play a Far Greater Role in Intelligence than was previously Thought, New Research Suggests,” March 2009

<http://www.channel4.com/news/articles/society/health/intelligence+genes+theory+backed/3026007>

The Telegraph - “People with Thicker Heads 'Are More Intelligent,” March 12, 2009

<http://www.telegraph.co.uk/scienceandtechnology/science/4977342/People-with-thicker-heads-are-more-intelligent.html>

Бэгнет – “Украинские умы работают в США над созданием генетических технологий мозга,” April 9, 2009

http://www.bagnet.org/news/summaries/one_day_of_planet/2009-04-09/12797

Известия Науки – “Ученые Приблизилась К Созданию "Лекарства", Повышающего Интеллект,” March 19, 2009

<http://www.inauka.ru/news/article90738.html>

Украина криминальная – “Уровень умственных способностей человека в значительной степени определяется генами,” March 19, 2009

http://www.cripo.com.ua/?sect_id=10&aid=69021

Компьюлента – “Уровень умственных способностей человека в значительной степени определяется генами,” March 19, 2009

<http://science.compulenta.ru/411348/>

Hindustan Times – “Intelligence is Largely Inherited,” March 18, 2009

<http://www.hindustantimes.com/StoryPage/StoryPage.aspx?sectionName=HomePage&id=8bf8df-d2-45ba-421a-87bb-98611afc5a6a&Headline=Intelligence+is+largely+inherited>

Yahoo India – “Intelligence is largely inherited,” March 18, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/yahooindia.html>

NetIndia123.com – “You owe your intelligence to your parents,” March 21, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/ind.html>

The Scotsman – “New scanner highlights importance of genes to intelligence,” March 12, 2009

<http://thescotsman.scotsman.com/uk/New-scanner-highlights-importance-of.5063545.jp>

El Aziz – “IQ seviyesi genlerde gizli,” March 13, 2009

<http://www.el-aziz.com/haber.php?id=535>

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/turkey1.jpg>

Tiede.fi – “Geenit säätävät järjenjuoksun,” March 20, 2009

http://www.tiede.fi/uutiset/3525/geenit_saatavat_jarjenjuoksun

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/finland.jpg>

Hirnforschung – “Intelligenz liegt in den Genen,” March 19, 2009

http://www.focus.de/wissen/wissenschaft/mensch/hirnforschung-intelligenz-liegt-in-den-genen_aid_381723.html

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/focusgerman.html>

Khoa học công nghệ - “Nghiên cứu mới chứng tỏ trí thông minh phần lớn là do di truyền,” March 19, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/vietnam.html>

Nacion.com – “Buena conexión entre neuronas condiciona inteligencia humana,” March 20, 2009

http://www.nacion.com/In_ee/2009/marzo/20/aldea1911147.html

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/cr1.jpg>

Adnkronos – “Medicina: Lo Studio, Intelligenza In Gran Parte Ereditaria,” March 21, 2009

<http://www.loni.ucla.edu/~thompson/HARDI-IQ/PRESS/it.htm>

Institute for Cognitive Science Studies – “High-Speed Brains Are in the Genes,” March 2009
http://www.ircss.org/fa/NewsRelease/News/Pages/20090312_Brain_Speed_Genetics.aspx

Additional media coverage: Times of India, The Indian, NewsTrack India, Genetic Engineering News, Eureka! Science News, Scientific Frontline, South Asian Women's Forum, HULIQ, Newswise, io9, Medgadget.com, Imperial Valley News, RedOrbit, Psychcentral.com, NewsPost Online, Sindh Today, Insciences Organization.

Additional media coverage: Times of India, Hindustan Times, The Indian, NewsTrack India, Genetic Engineering News, Eureka! Science News, Scientific Frontline, South Asian Women's Forum, HULIQ, Newswise, io9, Medgadget.com, Imperial Valley News, RedOrbit, Psychcentral.com, NewsPost Online, Sindh Today, Insciences Organization.

ix. Coverage of “Obesity and Brain Structure” paper, Human Brain Mapping, August 2009.

Press from around the world, including the New Scientist (August 19 2009) and Daily Mail (UK; August 19 2009) reported on our study that found that brain regions crucial for cognition are smaller in obese older people, when compared with their leaner peers, making their brains look up to 16 years older than their true age.

x. Coverage of “Commonly Carried Variant in the Obesity Gene, *FTO*, is associated with Brain Degeneration” (PNAS paper, Ho et al., 2010)

Press from around the world covered our research finding that a gene known to cause weight gain in more than a third of the U.S. population is linked to brain tissue loss. Coverage included reports by Reuters, Yahoo News, the Drudge Report, KABC-Channel 7, National Public Radio blog, New Scientist, London Telegraph and the Daily Mail. The research was also cited in 21 TV news segments on television stations around the country.

“Fat Gene Makes Bodies Larger, Brains Smaller”

http://abclocal.go.com/kabc/story?section=news/health/your_health&id=7395021

“Gene Makes People Fat, Raises Alzheimer's Risk”

<http://www.nationalpost.com/life/health/story.html?id=66ffe786-e1f4-4a08-8919-9e4e1002110d>

“Fatness Gene May Thin Your Brain”

<http://www.newscientist.com/article/dn18791-fatness-gene-may-thin-your-brain.html>

“Obesity Gene Makes Bodies Larger, Brains Smaller”

http://www.npr.org/blogs/health/2010/04/obesity_gene_makes_bodies_larg.html

xi. Coverage of our report that Alzheimer’s risk gene, *CLU*, is associated with damage to brain wiring in young adults” (Braskie et al., May 8 2011, *Journal of Neuroscience*)

Press from around the world (May 12 2011) covered our research finding that a particular gene carried by most people impairs the development of myelin, the protective covering around the neuron’s axons, making it more vulnerable to the onset of Alzheimer’s later in life

“Alzheimer's Damage May Begin at a Young Age, Study Finds”

<http://www.latimes.com/health/boostershots/la-heb-alzheimers-20110512,0,1944348.story>

xii. Coverage of our ENIGMA paper (Stein et al., Nature Genetics, April 15 2012)

Media Investigate New Genes Tied to Higher IQ, Bigger Brains

Research by UCLA scientists and international colleagues mapping human genes that correlate to a bigger brain and higher IQ was covered in 28 countries, including April 15 by the [New York Times](#), [Bloomberg](#), [Live Science](#), [HealthDay News](#), a [Los Angeles Times](#) blog, [Discover](#), [Yahoo! News](#) and Israel's [Haaretz](#); April 16 by [TIME](#), Britain's [Telegraph](#), [New Scientist](#), [WebMD](#), [CBS Radio](#), [The Atlantic Wire](#), Australia's [Gizmodo](#), New Zealand's [Top News](#), [Fox News](#), the [Huffington Post](#), [News-Medical Net](#), [24 Medica](#), [Asian News International](#) and [Agence France-Presse](#); April 17 by KPCC 89.3 FM's [Madeline Brand Show](#), Iran's [Press TV](#), [NewsTrack India](#), [Agenzia Giornalistica Italia](#), and the [French Tribune](#); and April 18 by [Medscape](#) and [PsychCentral](#). Paul Thompson, professor of neurology and member of the UCLA Laboratory of Neuro Imaging at the David Geffen School of Medicine, was quoted in the coverage. The April 15 edition of *Nature Genetics* published the findings.

xiii. Coverage of Sex Differences in Brain Connectivity (Dec. 10 2013)

Wall Street Journal (Dec. 10 2013) – Paul Thompson and Neda Jahanshad quoted
Los Angeles Times (Dec 2013)

III.F. EDITORIALS

- Newsday (New York). Invited Editorial: *Violence and the Teenage Brain*, Editorial on Adolescent Brain Research. Wednesday, May 23, 2001. Reprinted in:
- The Wichita Eagle (Kansas). *Brains of Teens and Adults aren't Same*. May 26, 2001.
- St. Petersburg Times (Florida). May 28, 2001.
- The Journal Gazette (Fort Wayne, Indiana). *Brain research shows a teen-ager is not an adult*. May 28, 2001.
- Sun Sentinel (Florida). Friday, June 1, 2001.

Reprinted in: *Coursebook for the Criminal Justice Institute*, Washington State Bar Association, Sept. 2002.

III.G. RADIO

- BBC World Service. Interviewed on *The World Today*. International News Program, aired in Europe and Asia. Reported on our study on genetics, brain structure and IQ (November 2001).
- BBC Radio 4. Interviewed on drivetime national news program. Reported on our study on genetics, brain structure and IQ (November 2001).
- Radio: Radio America (*Interview*, Dateline: Washington, March 9, 2000)
- KFI Talk Radio (Los Angeles, March 9, 2000).
- Osgood Files. CBS News Radio. National radio broadcast by Charles Osgood. Radio Interview on Brain Development and Language Acquisition in Childhood (Feb. 18, 2003).

On schizophrenia:

- KCSN Radio Network, Northridge, California. Interview on Brain Imaging in Schizophrenia (October 1, 2001).

On Alzheimer's Disease:

- KFI Talk Radio (News Interview; Los Angeles, February 10, 2003).
- Deutschland Radio Berlin (Germany; 10 minute Radio Interview; February 12, 2003)

III.H. TV INTERVIEWS & DOCUMENTARIES

On Brain Development:

- Reuters Television and Syndicates (Europe). Television Interview on Mapping Brain Growth Patterns in Children (Aired in Europe, March 10, 2000).
- Channel One U.S. Educational Network. Television Interview on Brain Development (Aired in Schools, March 10, 2000).
- Channel 4, U.K. *Double Exposure: The Learning Brain*, Producers: Dagmar Charlton and Fiona Scott. Television Interview on Imaging Brain Development. Monday May 8, 2000; To air: May 2001.
- NDR-Hamburg Television Network, Germany. Producers: Irina Bosse. Television Interview on Brain Plasticity, MRI Scanning, and Imaging Brain Development. Monday May 15, 2000; To air: Fall 2000.
- Discovery Health Channel. *Fires of the Mind*. Producer: Steve Eder. Television Interview on Mapping and Visualizing Brain Development. Aired: May 2001.
- CNN Newsroom. Producer: Janice MacDonald. Television Interview on MRI Scanning, Brain Growth across Ages 3-15, Linguistic Development. Friday May 26, 2000; Aired: December 7-11, 2000, on CNN, CNN International News Networks. Transcript available at: http://www.loni.ucla.edu/~thompson/MEDIA/CNN/cnn_nr.html

On schizophrenia:

- Reuters Television and Syndicates (Europe). Television Interview on Mapping Brain Changes in Schizophrenia (Aired in Europe and 800 syndicated TV stations, October 1-8, 2001).
- Discovery Health Channel and Syndicates. Mentorn Productions, Living Pulse (London). Television Interview on Brain Mapping Advances Schizophrenia (Aired in US, Europe, India, and France, Nov.-Dec. 2002 and 2003).

On Alzheimer's Disease:

- KABC Channel 7 Television (Los Angeles). Television Interview on Mapping Brain Changes in Alzheimer's Disease (Aired February 7, 2003).
- Dr. Dean Edell, San Francisco TV Program (May 2003). Television Interview.
- NBC Channel 17 TV News (May 7, 2003). Television Interview.

- ABC Channel 12 TV News, Michigan (April 22, 2003). Television Interview.

- ScienceCentral TV Syndicates (April 29, 2003), and Ivanhoe TV Syndicates (April 18, 2003). Television Interview.
- Eyewitness News, West Virginia (April 9, 2003). Television Interview.

- Austin 8 TV News (April 14, 2003)). Television Interview.
- WCPO 9 Cincinnati TV News (April 22, 2003). Television Interview.
- WSAW 7 Wisconsin TV News (April 22, 2003). Television Interview.
- WIS Channel 10 TV News, South Carolina (April 24, 2003). Television Interview.

Additional Media Coverage:

New York Times, June 13 2008. Interview on Schizophrenia Progression: Expert Q+A with Paul Thompson.

New York Times Health Section, Sept 13 2008. Time Lapse Maps of Brain Development.

Harvard Magazine, Sept.-Oct. 2008. Teen Brain Development.

Museum Exhibits:

DEA's traveling exhibit - California Science Center. Fall 2008. Highlighted our images of methamphetamine effects on brain structure. Creator: *Catie Drew, Education Coordinator, DEA Museum and Visitors Center.*

2015

Russian National Academy of Sciences – December 10, 2015; Interview with Scientific American, on the ENIGMA project. [In Russian and English].

IV. PEER REVIEW ACTIVITIES

A. PEER-REVIEWER FOR:

Number of Papers Reviewed (1998-)*

<u>Nature Neuroscience</u>	2
<u>Nature Genetics</u>	1
<u>Proceedings of the National Academy of Sciences</u>	2
<u>Journal of Computer Assisted Tomography</u>	7
<u>IEEE Transactions on Medical Imaging</u>	>10
<u>NeuroImage</u>	>10
<u>Neuron</u>	1
<u>Journal of Neuroscience</u>	1
<u>Computer Vision and Image Understanding</u>	2
<u>Computer Vision and Pattern Recognition</u>	5
<u>Medical Image Analysis</u>	3
<u>Elsevier Trends in Pharmacological Science and Technology</u>	1
<u>IEEE Transactions on Biomedical Engineering</u>	3
<u>IEEE Transactions on Visualization and Computer Graphics</u>	1
<u>Human Brain Mapping</u>	>10
<u>American Journal of Psychiatry</u>	1
<u>Neuroreport</u>	1
<u>Laterality</u>	1
<u>Journal of Electronic Imaging</u>	1
<u>Neural Networks</u>	1
<u>American Journal of Mental Retardation</u>	1
<u>Neuropsychology</u>	1

*this list includes academic journals, and excludes IEEE engineering conferences, where it is typical to assign 6 to 10 papers to each reviewer on the Program Committee (*see under* Committee Service).

GUEST EDITED THE FOLLOWING JOURNAL SPECIAL ISSUES

NeuroImage Special Issue on Mathematics in Brain Imaging (IPAM Summer School)
Sept. 2004
Co-Editors: Paul Thompson, Mike Miller,
Russ Poldrack, Tom Nichols, Tilak Ratnanather
20 papers

IEEE Transactions on Medical Imaging
Special Issue on Computational Neuroanatomy
April 2007
Co-Editors: James Gee and Paul Thompson
16 papers selected; 70 reviewed

Human Brain Mapping
Special Issue on Genomic Imaging
June 2007
Co-Editors: Paul Thompson, Tomas Paus, David Glahn
13 papers

NeuroImage Special Issue on Mathematics in Brain Imaging (IPAM Summer School)
Jan. 2009
Co-Editors: Paul Thompson, Mike Miller,
Russ Poldrack, Tom Nichols, Keith Worsley, Jonathan Taylor, Tilak Ratnanather
20 papers

IV.B.i. BOOK PROPOSAL REVIEWER FOR:

Springer Press, Germany

- Reviewed Book Proposals for the Springer Press *Mathematics and Visualization* Series; included research titles on partial differential equations, differential geometry, level-sets, and computer vision approaches in medical image reconstruction and analysis.

IV.B.ii. BOOK CONSULTANT FOR:

Blackbirch Press, Woodbridge, CT

- Served as consultant and proof-reader for 4 educational textbooks, published by Blackbirch Press in 2001. The books introduce the anatomy and function of the brain, and are intended for advanced high school students in Grades 6-9. The first of the books highlights our research on brain development in children. The books are entitled:

The Physical Brain / By Faith Brynie. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-423-7. 64pp.

Perception / By Faith Brynie. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-423-7. 64pp.

Addiction / By Susan Papa, Steve Miller. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN #1-56711-421-0. 64pp.

Neurological disorders / By Connie Goldsmith. Woodbridge, CT. Blackbirch Press, 2001. Scientific Consultant, Paul Thompson. ISBN # 1-56711-422-9. 64pp.

IV.C. GRANT APPLICATION REVIEWS, STUDY SECTIONS, ADVISORY PANELS:

National Library of Medicine, National Institutes of Health, 1999 Grants Program, June 21-22 1999

- Served on Study Section and *Technical Evaluation Group* (TEG), June 21-22 1999, Bethesda, MD. Reviewed Grants for the National Library of Medicine Initiative entitled:

The Visible Human Project: From Data to Knowledge

National Library of Medicine, National Institutes of Health, 1999 Grants Program, August 9-10 1999

- Served on Study Section and *Technical Evaluation Special Emphasis Panel*, August 9-10 1999, Los Angeles Conference Center, CA. Reviewed Consortium Contract Grants for the National Library of Medicine Initiative entitled:

An Advanced Imaging API for Medical Image Segmentation and Registration

Center for Scientific Review, National Institutes of Health, 1999 Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Grants Program, November 12 1999

- Primary Reviewer, served on Study Section, November 12 1999. Governor's House Hotel, Washington DC. Reviewed for Phase II Small Business Innovation Research Program.
- Primary Reviewer, served on Study Section, August 8, 2000. Reviewed for Phase II Small Business Innovation Research Program.

Alzheimer's Disease Association, 1999 Grants Program

- Reviewed several grants for the ADA, whose proposals for 1999 focused on interventions in Alzheimer's Disease and covered both basic science and clinical research initiatives.

National Institute for Child Health and Human Development (NICHD), National Institutes of Health, 2000 Grants Program, December 6-8 2000

- Served on Study Section and Site Visit Review panel, December 6-8 2000, for a 3-day Site Visit to the Children's National Medical Center, Washington DC. Reviewed NeuroImaging Cores and Center Grant Application for the siting of a Mental Retardation Research Center (MRRC; one of four nationally) at the Children's National Hospital, Georgetown University, and George Washington University. Chair: Thomas Woolsey, M.D.; SRA: Norman Chang, Ph.D., NICHD.

National Center for Research Resources (NCRR), National Institutes of Health, 2001 Grants Program, February 21-23 2001

- Served on Study Section and Reverse Site Visit Review panel, February 21-23 2001, for a 3-day Reverse Site Visit in Washington DC. Reviewed P41 Technical Research and Development Cores and Resource Grant Application for the siting of an NCRR National Resource in Functional Neuroimaging at the Kennedy Krieger Institute (KKI) of the Johns Hopkins School of Medicine, and the Center for Imaging Science, Johns Hopkins University. Chair: Thomas Budinger, M.D., Ph.D.; SRA: Tracy Orr, Ph.D., NCRR.

National Science Foundation (NSF), 2002 Grants Program, June 17-20 2002

- Served on Study Section, June 17-20 2002, for a 2-day panel reviewing seventy-five neuroscience grants. This initiative is the first NSF program to fund cognitive neuroscience projects. Program Officer: Larry Parsons, Ph.D., NSF.

National Institute of Mental Health (NIMH), 2002 Grants Program, July 15 2002

- Served on Study Section, July 16-17 2002, reviewing Neuroscience Grants. Program Officer: Ben Xu, Ph.D., and Henry Haigler, Ph.D.

National Institute of Biomedical Imaging and Bioengineering (NIBIB), 2003 Grants Program, July 21-23 2003, Bethesda, MD

- Served on Study Section, July 21-23 2003, reviewing grants for Image Guided Interventions program at NIBIB. Program Officer: Michael Oxman, Ph.D., Chair: Warren Grundfest, M.D., Ph.D.

Referee for Research Council of Norway, Grants Program, September 2003

- Grant reviewer for program in Computational Mathematics and Applications, Research Council of Norway, September 2003. SRA: Gudmund Høst, Dr. Scient., Program Coordinator for Norges forskningsråd.

Referee for Danish Technical Research Council, Denmark, Grants Program, October 2003

- Grant reviewer for proposals submitted to the Council's "Framework" and "Engineering Research Center" programs, Danish Technical Research Council, October 2003. SRA: Ewa Beldzinski, Danish Research Agency, Danish Technical Research Council.

Center for Scientific Review, National Institute of Allergy and Infectious Diseases/National Institutes of Health, 2004 Small Business Innovation Research (SBIR)/Small Business Technology Transfer (STTR) Grants Program, April 27, 2004

- Primary Reviewer, served on Study Section, Reviewed for Small Business Innovation Research Program, SRA: Kenneth Roebuck, Ph.D.

National Center for Research Resources (NCRR), National Institutes of Health, Site Visit, June 21-23, 2007

- Served on Study Section and Site Visit Review panel, June 21-23 2007, for a 3-day Site Visit in Boston. Reviewed P41 Technical Research and Development Cores and Resource Grant Application for the siting of an NCRR National Resource at Brigham Women's Hospital. Chair: Michael W. Vannier, M.D.

IV.D. NATIONAL ADVISORY PANELS:

National Academy of Sciences, and Institute of Medicine (IoM), May 2, 2001

- Served on Advisory Panel and Presented Research to National Academy of Sciences, Board on Children and Families, Cecil and Ida Green Building, 2001 Wisconsin Ave., N.W. Chairs: Michele Kipke, Ph.D., David Hamburg, Carnegie Foundation, and Donna E. Shalala, former Health and Human Services Secretary.

Administration for Children, Youth & Families, Dept. of Health and Human Services (HHS), Washington DC, May 2001

- Served as consultant on advisory panel for led by Stan Chappell, program officer at the the DHHS *Federal Youth Services Bureau*. Presented recent research, in panel discussions, on childhood brain development for policy-makers involved in the care of runaway and homeless children.

National Institute for Alcoholism and Alcohol Abuse (NIAAA) Advisory Panel, September 9-11, 2001, Washington DC

- Served on Advisory Panel and presented research at a special workshop and brainstorming plenary session at the National Institute of Alcoholism and Alcohol Abuse, Bethesda, MD. Chair: Allen Tannenbaum, Ph.D., Georgia Tech University, and Dr. Enoch Gordis, Director of the NIAAA, Washington, DC, **September 11, 2001.**

Advisory Board Member, Medical Image Analysis and Display Group, Univ. of North Carolina at Chapel Hill (PI: Steve Pizer PhD, UNC Dept. Computer Science)

- Served on Advisory Committee, 4-day visit to Univ. of North Carolina to advise the MIDAG group on their medical image analysis research program. **Sunday Nov. 7-Tuesday Nov. 9 2004.**
- Served on Advisory Committee again (2005). Advised Steve Pizer, Guido Gerig's MIDAG group at UNC on composition of their Program Project and outside collaborations. **Nov. 15, 2005.**

Advisory Board Member for the Imaging Core, Dominantly Inherited Alzheimer Network (DIAN; PI: John Morris and Mark Mintun, Washington University), 2009-

- Participated in advisory conference calls on the imaging component of DIAN, a large NIH-funded neuroimaging project

Advisory Board Member for the European Alzheimer's Disease Neuroimaging Initiative (E-ADNI), 2009-

Advisory Board Member for the Alzheimer's Disease Neuroimaging Initiative (ADNI) Genetics Core, 2009-

International advisory board of the Frankfurt University Neurodegeneration Center (PI: Harald Hampel), a part of the German National Center for Neurodegenerative Diseases (DZNE), March 2011-

External Advisory Board Member, Mayo Clinic ADRC (PI: Ron Petersen) – meeting in Florida, Feb. 2013

External Advisory Board Member, Center of Cognitive Aging and Memory at the University of Florida (PI: Ron Cohen) – 2013-

IV.E. NATIONAL SCIENTIFIC COMMITTEE SERVICE:

• IEEE Program Committee (MMBIA 2000)

Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA), Hilton Head Island, South Carolina, June 11-12 2000; Workshop sponsored by the IEEE Technical Committee on Pattern Analysis and Machine Intelligence.

• SPIE Program Committee (MMMI 2000)

Conference on Mathematical Methods in Biomedical Imaging, 'Mathematical Modeling, Estimation, and Imaging', San Diego, California, July 30-August 4, 2000; Proceedings published in SPIE vol. 4121; meeting held in coordination with the Society for Industrial and Applied Mathematics (SIAM) and the SPIE 45th Annual Meeting on Optical Science and Technology.

- **IEEE Program Committee (MMBIA 2001)**

Workshop on Mathematical Methods in Biomedical Image Analysis (MMBIA), Kauai Island, Hawaii, December 4-8 2001 Workshop sponsored by the IEEE Technical Committee on Pattern Analysis and Machine Intelligence.

- **IEEE Program Committee (ISCI 2002)**

2002 IEEE International Symposium on Biomedical Imaging (ISBI): Macro to Nano, July 7-10, Ritz Carlton Hotel, Washington, D.C. Chairs: Michael Unser PhD, EPFL, Switzerland, and Zhi-Pei Liang PhD, University of Illinois.

- **IEEE Program Committee (ICPR 2002)**

International Conference on Pattern Recognition 2002, Quebec City, Canada, 11-15 August 2002; Chair: Nicholas Ayache PhD, INRIA, France.

- **MICCAI 2002 Program Committee**

Fifth International Conference on Medical Image Computing and Computer Assisted Intervention 2002 (MICCAI 2002), University of Tokyo, Tokyo, Japan, September 25-28, 2002; Chair: Ron Kikinis MD, Boston.

- **WBIR 2003 Program Committee**

2nd World Congress on Brain Image Registration (WBIR 2003). University of Pennsylvania, Philadelphia, June 24, 2003. Chairs: Jim Gee PhD and Twan Maintz PhD.

- **MICCAI 2003 Program Committee**

Sixth International Conference on Medical Image Computing and Computer Assisted Intervention 2003 (MICCAI 2003), University of Toronto, Canada, November 1-4, 2003; Chair: Nicholas Ayache PhD, INRIA, and Guido Gerig PhD, Univ. of North Carolina.

- **ICCV 2005 Program Committee**

International Conference on Computer Vision, Beijing, China, Oct. 2005; also served on Program Committee and reviewed papers for the Workshop on Medical Image Analysis in Radiology (MIAR; Chair: Yanxi Liu, Ph.D.) at the same meeting.

- **ISBI 2006 Program Committee**

IEEE International Symposium on Biomedical Imaging (ISBI), Washington DC, April 6-9, 2006.

- **MICCAI 2006 Program Committee, and Program Committee for the Workshop on Mathematical Foundations of Computational Anatomy (MICCAI 2006)**

9th International Conference on Medical Image Computing and Computer Assisted Intervention 2006 (MICCAI 2006), Copenhagen, Denmark, October 2006.

- **MICCAI 2008 Program Committee, Workshop on Mathematical Foundations of Computational Anatomy (MFCA)** – with Xavier Pennec and Sarang Joshi. New York, Sept. 2008.

- **MICCAI 2008 Program Committee, Workshop on Computational Anatomy of the Hippocampus (CAPH)** – with Paul Yushkevich and Lei Wang, New York, Sept. 2008.
- **MICCAI 2009 Program Committee, Workshop on Probabilistic Models for Medical Image Comprehension** - with Sandy Wells (Harvard/MIT), Sarang Joshi (Utah), and Kilian Pohl (IBM/MIT). London, UK, Sept. 2009; reviewer for numerous 12-page papers submitted to the meeting.
- **MICCAI 2012 Program Committee**; reviewer for around 28 12-page papers submitted to the meeting.
- **WBIR 2012 Program Committee**; reviewer for numerous papers submitted to the International Workshop on Brain Image Registration, 2012.
- **MICCAI 2013 Program Committee**; reviewer for papers submitted to the meeting.
- **MICCAI MBIA Workshop Program Committee, for 2013**; reviewer for papers submitted to the meeting (Organizer: Li Shen, Ph.D., Indiana U.).

IV.F. TUTORIAL WORKSHOP ORGANIZER:

- **Institute for Pure & Applied Mathematics, Conference Organizer, May 21-24 2001**

With 4 other UCLA faculty (Simon Cherry, Eitan Tadmor, Guillermo Sapiro, and Arthur Toga), organized a 4-day conference at UCLA at the Institute for Pure and Applied Mathematics, entitled:

Imaging in Medicine and the Neurosciences (May 21-24, 2001).

As part of the program, hosted a one-day NCCR-sponsored workshop, with 80 participants from around the U.S., entitled:

Workshop on the Mathematics of Brain Mapping (May 24, 2001). The workshop was a joint venture between the UCLA Laboratory of Neuro Imaging and the UCLA Institute for Pure and Applied Mathematics.

- **Workshop on Computational Anatomy, Conference Organizer, December 7 2001**

Organized schedules, invitations, and logistics for a one-day intensive brain imaging workshop at UCLA Laboratory of Neuroimaging Resource, with 40-50 participants from around the U.S.

- **Workshop on Deformable Models in Biomedical Imaging, Organizer, MICCAI 2002, Japan, Sept. 2002**

Organized schedules, invitations, and logistics for a half-day intensive brain imaging workshop at the MICCAI conference in Japan.

- **Workshop on Mapping Brain Degeneration, Organizer, Human Brain Mapping 2003, New York City, June 2003**

Organized schedules, invitations, and logistics for a morning course/workshop at the HBM2003 conference in New York.

- **1st IPAM Summer School on Mathematics in Brain Imaging, Conference Organizer, July 12-23 2004 (265 attendees, 2 weeks)**

Organized speakers, schedule, invitations, and logistics, and journal Special Issue, for a 2-week brain imaging workshop at UCLA Institute of Pure and Applied Mathematics, with 265 participants from around the U.S. and

overseas. Organized with Mike Miller, Ph.D., Johns Hopkins University, and Mark Green, Ph.D., IPAM Director. Planned Functional Neuroimaging week with Russ Poldrack Ph.D., Tom Nichols, Ph.D.

- **IPAM Workshop on Image Processing for Random Shapes: Applications to Brain Mapping, Geophysics, and Astrophysics" May 21-25 2007.**

Program Committee with Guillermo Sapiro, Keith Worsley, Stan Osher, Peter Jones, and others. Organized speakers, schedule, and logistics, for a 1-week mathematical imaging workshop at UCLA Institute of Pure and Applied Mathematics.

- **2nd IPAM Summer School on Mathematics in Brain Imaging, Conference Organizer, July 14-25 2008 (300 attendees, 2 weeks)**

Organized speakers, schedule, invitations, and logistics, and journal Special Issue, for a 2-week brain imaging workshop at UCLA Institute of Pure and Applied Mathematics, with 300 participants from around the U.S. and overseas. Organized with Mike Miller, Ph.D., Johns Hopkins University, and Russ Caflisch, Ph.D., IPAM Director. Planned Functional Neuroimaging week with Russ Poldrack Ph.D., Tom Nichols, Ph.D., Keith Worsley, Ph.D., and Jonathan Taylor, Ph.D. <http://www.ipam.ucla.edu/programs/mbi2008/>

IV.G. UCLA COMMITTEE SERVICE:

- **Basic Science Compensation Plan Committee, UCLA Dept. Neurology, March 2002-present**

This committee establishes rules governing the negotiation of salary, consulting income, and outside income, in the UCLA Department of Neurology.

- **Appointments and Promotions Committee, UCLA Dept. Neurology, Oct. 2004-present**
- **Neurology Dept. Representative, UC Legislative Assembly (Academic Senate), July 2004-July 2007**
- **Ad hoc Tenure Review Committee Member, Campus-Level Appointments and Promotions Committee (CAP), 2007**
- **Bridge Funds and Competitive Awards Committee, UCLA Dept. Neurology, Oct. 2007-present**
- **Epilepsy Program Director Search Committee, UCLA Dept. Neurology, 2010**
- **Neuroimaging Training Program (NITP) Executive Committee, Dec. 2010-present. (This committee helps to set all of the program goals and evaluates the fellowship applicants each year).**
- **BME PhD Program Comp/Prelim Exams Committee, 2010-present.**
- **Alzheimer's Disease Program Director Search Committee, UCLA Dept. Neurology, 2011**

- **Office of the Vice Chancellor, Grand Challenge Committee, Oct. 2012–**

Chaired by Larry Zipursky and Kelsey Martin, this committee develops a set of priorities and projects for fund-raising at the campus level.

- **UCLA Committee on Neuroscience, Dec. 2012–**

Chaired by Larry Zipursky, this committee develops a strategic vision for fund-raising in neuroscience at UCLA.

V. TEACHING AND MENTORING:

A major educational goal has been mentoring and training students in both medical and basic science degree programs, at undergraduate, graduate, and post-M.D. levels.

V.A. Graduate Students and Post-Doctoral Trainees Mentored 1994-2012:

Student	Project(s)
Post-M.D.	
Sean Haney, M.D. (with Tim Cloughesy MD, Jeffrey Alger PhD)	A Dynamic Framework to Detect Change in Tumor Growth
Graduate (PhD, MD/PhD)	
Katherine Narr	Brain Mapping in Schizophrenia (Neuroscience PhD Program)
Rebecca Blanton	Pediatric Neuroimaging and Developmental Disorders (Neuroscience PhD Program)
Constantine Raftopoulos (Computer Science PhD Program; interim military service, to Sep. 2000)	The GL-Transform: A New Tool for Pattern Analysis in Medical Images
David Rex (MD/PhD, MSTP/Neuroscience PhD Program)	Encoding and Analyzing Stereotaxic Variation of Human Brain Function
Allan Mackenzie-Graham (Neuroscience PhD Program, Rotation Student)	Variations in Cortical Organization with Handedness and Gender
Uma Karmarkar (Neuroscience PhD Program, Rotation Student)	Functional Organization of Language Cortex
Suman Bhattacharya (Biostatistics PhD Program)	Bayesian Pattern Recognition for Neuroimaging Data
Daniel Rubins (MD/PhD, MSTP/Biomedical Physics PhD Program)	A Digital Atlas of Micro-PET Data based on Scanning of Small Animals
Theo Van Erp	Mapping Genetic Contributions to Brain Structure in Schizophrenia (Psychology PhD Program)
Alison Clements Burggren (Neuroscience PhD Program, currently Rotation Student)	Mapping Early Brain Change in ApoE Genotyped Elderly Subjects At Risk for Alzheimer's Disease
Andrew Frew	Brain Mapping in Tumor Patients: Imaging, Genetics and Therapy

(Biomedical Physics PhD Program)

Siamak Ardekani (Biomedical Engineering PhD Program)	Nonlinear Registration Algorithms for Medical Image Databases
Alain Pitiot	Automated Analysis of Medical Images (Exchange Student, University of Paris, and INRIA, Sophia-Antipolis, France; Engineering & Computer Science PhD Program)
Christine Vidal	Mapping Early Brain Changes in Childhood-Onset Schizophrenia (Exchange Student, University of Jussieu, France; Psychology PhD Program, University of Jussieu; and UCLA Neuroengineering PhD program applicant)
Donna Roybal	Mapping Longitudinal Brain Change in Those At Genetic Risk for Alzheimer's Disease (2 nd Year Medical Student and AFAR Scholar – Visiting Summer Student)
Allen Lu	Biomedical Engineering Master's Student
Agatha Lee	Biomedical Engineering PhD Student
Ming Chang Chiang MD	Biomedical Engineering PhD Student
Janet Cruz	Biomedical Engineering PhD Student (Neuroengineering Program, Rotation Student)
Lara Foland	Neuroscience PhD Student (mentor for her NSRA award)
Jon Morra	Biomedical Engineering PhD Student
Jason Stein	Neuroscience PhD Student (mentor for his NSRA award)
April Ho	Neuroscience PhD Student (mentor for her NSF award)
Neda Jahanshad	Medical Informatics/BME PhD Student
Omid Kohannim	MSTP/Biomathematics PhD Student
Yan Jin	Biomedical Engineering PhD Student
Boris Gutman	Biomedical Engineering PhD Student
Autumn Yang	Neuroscience PhD Student
Sarah Madsen	Neuroscience PhD Student

V.B. Undergraduate Students Mentored (UCLA Student Research Program and 199 Honors Thesis Program; number of publications shown, for each undergraduate student, in parentheses):

**Supervised Honors Thesis*

Aelia Khan (5 years)	Quantification of 3D Neuroanatomic Variability (5)
Jacob Moussai (3 years)*	Cortical Variability and Asymmetry in Aging and Dementia (5)
Shahin Zohoori (2 years)	Abnormal Cortical Anatomy in Alzheimer's Disease (3)
Joshua Mogy (1 year)*	Hippocampal/Ventricular Anatomy in Aging and Dementia (2)
Jonathan Aron (1 year)*	Probabilistic Atlas of the Alzheimer's Brain (2)
Robert Lin (1 year)*	Quantification of 3D Neuroanatomic Variability (2)
Timur Karaca, Abhishek Tiwari	Cryosection-PET Image Registration (with Mike Mega, MD PhD) (2)
Nancy Koras, Alvie Beday	Corpus Callosum Structure in Dementia and in Elderly Twins (1)
Adam Zaffos	MRI Morphometry in Twins (1)
Jessica Coryell	Caudate/Thalamic Anatomy in Subjects At Risk for Dementia (1)

Amir Goldkorn	Sulcal Patterns in Dementia and Schizophrenia (5)
Alain Pitiot* (Exchange Student)	Automated Structure Identification in Medical Images (1)
Chris Zoumalan* (2.5 years)	Creating an Alzheimer's Disease Brain Atlas (with Mike Mega, MD PhD)
Chris Lindshield	Creating an Alzheimer's Disease Brain Atlas (with Mike Mega, MD PhD)
Mohamed Khaledy	Mapping Genetic Contributions to Brain Structure in Schizophrenia
Elizabeth Kwong (Visiting Medical Student)	Population-Based Average Hippocampal Models in Mild Cognitive Impairment and Alzheimer's Disease (with Mike Mega, MD PhD)
Michael Hong*	Mapping Longitudinal Brain Changes in Alzheimer's Disease
David Gravano	Mapping Longitudinal Brain Changes in Alzheimer's Disease
David Herman*	Mapping Longitudinal Brain Changes in Alzheimer's Disease
Sue Han	Mapping Longitudinal Gray Matter Changes in Alzheimer's Disease
Victor Gabrielian	Mapping Brain Change in Childhood-Onset Schizophrenia
Anil Nair	Mapping Brain Change in Childhood-Onset Schizophrenia
Lauren McLemore	Childhood Schizophrenia, 2 quarters, 2002
Snehal Shah	Childhood Schizophrenia
Sasan Sani	Childhood Schizophrenia
Andrew Ren	Childhood Schizophrenia
Nayoung Lee	Johns Hopkins REU Scholar 2002: Drug Addiction Research
Yihong Sui	UC LEADS Scholar 2002: Autism and Childhood Schizophrenia Research; UC Award for Top UC Student, Presented in Sacramento
Yasaman Alagband	MRI in Williams Syndrome (with Becca Dutton); Two 199 Honors Theses
Nazanin Izadpanah	Planum Temporale in Autism; 199 Honors Thesis
Ben Tseng	Longitudinal Parametric MRI in Glioblastoma (with Andy Frew)
Jessica Lee	MRI in methamphetamine users (with Kira Hayashi)
Sharon Lee	Mapping Brain Change in HIV/AIDS and Mapping Cerebellar Change in Williams Syndrome; Two 199 Honors Theses
Marina Barysheva	MRI in methamphetamine users (with Kira Hayashi)
Andrew DeGiorgio	Mapping Alzheimer's disease and gene effects on the brain (with Sarah Madsen, Christina Avedissian), 2008
Ivan Pandoy	Mapping Alzheimer's disease effects on the Basal Ganglia. 199 Honors Thesis , 2008.
Suh Lee	Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2007-2008
Amit Friedman	Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-
Daria Merkuriev	Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-
Sarah Loeb (Harvey Mudd)	Tensor Based Morphometry in Alzheimer's Disease (with Xue Hua), 2009-

V.B.II Neuroengineering Summer Program

As member of the Neuroengineering faculty, hosted and mentored students enrolled in the UCLA Summer Intern Program (Director: Allan Tobin, Ph.D., and Alan Paul, Ph.D., UCLA Brain Research Institute) and UC LEADS Scholars Program (Director: Richard Weiss, Ph.D.):

2001

Leslie Lusk	Univ. of Pennsylvania	Neuroengineering Summer Intern, 2001 (8-week visit; return research visit, March 5 to 7, 2003)
Del Leistritz (8-week visit). Project:	University of Tulsa, OK Computational	Neuroengineering Summer Intern, 2001 Approaches for the Detection of Alzheimer's Disease

2002

Nayoung Lee	Johns Hopkins University	Neuroengineering Summer Intern, 2002 (8-week visit). Project: Hippocampal Mapping in Methamphetamine Abusers
Yihong Sui	UCLA Biochemical Engineering	UC LEADS Program Scholar, 2002 (8-week visit). Project: Medial Temporal Maps in Childhood-Onset Schizophrenia

V.B.III Visiting Investigators Mentored

Paul Rasser, M.Sc.	Visiting Research Fellow, University of Adelaide	1-Year Internship, 2001: Imaging in Schizophrenia, Jan.-Dec. 2001 Exchange Grant with U. Sydney (Dr. Philip Ward)
Nitin Gogtay, M.D.	Visiting Investigator, NIMH	Summer Internship, 2001: Imaging in Childhood- Onset Schizophrenia, June 25-August 8, 2001
Chris I. Zoumalan	Medical Student, Univ. Wisconsin	Summer Internship, 2001: Mapping the Medial Cortex in Alzheimer's Disease
Wil McClay, M.Sc.	Engineering Student, Tulane Univ.	Summer Internship, 2001: Cortical Surface Parameterization
Christian Gaser, Ph.D.	Postdoc, Univ. of Jena, Germany	3 week visit, April 2003; deformation Morphometry; 2 nd 3 week visit April-May 2004; 2 week visit March 2005
Manish Dalwani Univ. of Texas, San Antonio	Graduate Student in Psychiatry in bipolar adults	2 week visit, August 2003; cortical mapping
Francesca Sabattoli in Alzheimer's disease, and FTD	Graduate Student in Mathematics Univ. of Brescia, Italy	Two 2-3 month visits, 2004; cortical and hippocampal mapping
Ginny Ng MD,	Institute of Psychiatry, London	1 week visit, April 2005; cortical maps in twins

Gareth Barker PhD

Wil McClay, Ph.D. Postdoc, Livermore Labs (LLNL) Joint postdoc working on image registration, starting April 2005; co-mentor on his LLNL grant

Facundo Memoli PhD student, U. Minnesota Postdoc working on level set methods, 2 day visit, April 2005

Julie Price, Ph.D. Assoc. Prof., U. Pittsburgh K award recipient, working on PET-MRI
Correlation in Alzheimer's disease
3 day visit, Oct. 24-26 2007
1 day visit, Dec 8 2008

Budha Kh. Research Assistant Tensor-based morphometry to
National Brain Research Centre map brain degeneration
Manipur, India (with Neel Parikshak)
3 day visit, March 2008

Iman Aganj PhD student, U. Minnesota Cortical thickness algorithm development
(with Neel Parikshak)
3 day visit, March 2008

Naama Bernea-Goraly Postdoc, Stanford RO3 award recipient, learning cortical complexity methods
2 day visit, July 17-18 2008 (with Lara Foland, Sarah Madsen)

Elizabeth Walter Postdoc, Stanford RO3 award recipient, learning cortical complexity method
2 day visit, July 17-18 2008 (with Lara Foland, Sarah Madsen)

Marlon Quinones Asst Prof, UT San Antonio NARSAD recipient, learning cortical mapping methods to study inflammatory effects in bipolar illness
2 week visit, July 14-25 2008 (with Lara Foland, Sarah Madsen)

Cyrus Raji MD/PhD student, U. Pittsburgh To learn tensor based morphometry methods
(PIs: Jim Becker, Oscar Lopez) for use in the Cardiovascular Health Study
3 week visit, August 1-22 2008 (with April Ho)
Repeat visit: March 30 2009 (with April Ho)

Miguel Burgaleta PhD student, U. Madrid To learn DTI analysis methods to correlate
Spain fiber integrity and cognition in a large database
Aug 1-Dec 1 2008 (with Marina Barysheva, Agatha Lee)

Anouk den Braber PhD student, Frei University, To learn DTI analysis methods for examining
Amsterdam, Netherlands Obsessive Compulsive Disorder (with Jason Stein, Agatha Lee, Marina Barysheva)

Alex Chavez Child Psychiatry Branch (PIs: Judy Rapoport MD, Nitin Gogtay MD)	Research Assistant, NIMH for measuring brain growth rates (with Suh Lee)	To learn longitudinal brain mapping methods (with Suh Lee)
Roberto Colom University of Madrid, Spain	Professor of Neurology	Feb-Sept. 2009 (9 month visit)
Andrey Finegersh Mapping and analysis methods; with Christina Avedissian). Analyzed epilepsy MRI data.	RA for Bill Theodore (NINDS)	April 1-3 2009 (visited to learn hippocampal mapping and analysis methods)
David Tate PhD Jared Price Dan McCaffrey Jeff Dewey Troy Russell	Tufts University	April 26 2009 (4 day visit) Visit of their lab to our group to learn Tensor-based morphometry (with Suh Lee)
Smeer Salam Pakistan	Medical student from King Edward Medical Univ.	3 month visit to learn our methods to map brain changes in HIV (Summer 2009)
Julio Villalon MD Anatomy; large scale testing of Riemannian Registration code on twins).	MS student from Colombia	June 1 2009- (automated analysis of ventricular anatomy)
Gabriella Blokland (3 month visit)	Univ. Queensland, QIMR	July 1 2009- Analysis of fMRI data in twins.
Yannis Paloyelis Visit to learn anatomical modeling; Caudate mapping in ADHD (with Priya Saharan, Jason Stein)	King's College London	August 1-15 2009 (2 week visit)
Reva Stidd	NIMH Child Psych., Bethesda	Oct 19 2010- 1-week visit to work on brain development (with Suh Lee, Xue Hua).
James Cole	King's College, London	Nov. 10-17 2009; visit to learn surface modeling (1 week visit; with Priya Saharan, Sarah Madsen).
Paul Rasser	Univ. Newcastle, Australia	Dec 1-10 2009-Visit to learn our TBM Methods (with Suh Lee, Derrek Hibar).
Ron Hazelton MD injury analyses	Brisbane, Australia	Jan 4 2011; 1-day visit to plan traumatic brain injury analyses
Tim Ehlkes	Univ. Newcastle, Australia	Jan 30-Feb 12 2011 -Visit to learn our DTI methods

		Methods (with Julio Villalon, Marina Barysheva, Talia Nir; visit funded by NHMRC).
Victor Valcour MD Carmela Tartaglia MD Pom Sailasuta PhD	UCSF CalTech	Apr 1 2011 -Visit to plan HIV projects (with Neda Jahanshad, Talia Nir, 1-day visit/talks).
Ben Sinclair Connectivity analyses	QIMR, Brisbane	May 20 2011; 1-day visit to plan Functional
Jeff Looi MD	ANU, Canberra	May 31-June 4 2011 -Visit to learn our Methods (with Priya Rajagopalan, Sarah Madsen, visit funded by NHMRC).
Cyrus Raji MD PhD	UPMC, Pittsburgh 2011(with	September 28, 2011 - October 3rd, Christina Boyle, Omid Kohannim, Priya Rajagopalan); planning cardiovascular health studies

V.B.IV. Mentoring of Assistant Professors on K01 Grants (Mentored Research Scientist Development Awards)

Served as K01 award Mentor/Advisor for:

Todd Lencz, Ph.D.	Assistant Professor of Psychiatry Albert Einstein College of Medicine and Hillside Hospital, New York	NIMH Mentored Research Scientist Award 2001-2002
Liana Apostolova MD	Assistant Professor of Neurology	UCLA; Beeson Award; Primary Mentor
Carrie Bearden PhD	Assistant Professor of Psychiatry	UCLA; Co-Mentor
Yaling Yang PhD	Assistant Researcher, Psychiatry	UCLA; Primary Mentor (K99/R00 award)
Emily Dennis PhD	Asst. Prof., now at Univ. of Utah	USC: Primary Mentor (K99/R00 award)
Sook-Lei Liew PhD	Asst. Prof., Neurorehabilitation	USC; Primary Mentor (K award)
Hannah (Shan) Luo PhD	Asst. Prof., CHLA	USC; Primary Mentor (K award)

V.C. CLASS TEACHING:

I. M132 Structure & Function of the Nervous System:

- Prepared and gave introductory lectures on structural and functional neuroanatomy; prepared quizzes, review sessions; graded midterms, finals and term papers; also helped students with private tutoring.

II. Biostatistics 230: Statistical Graphics (Fall 1999):

- Lecturing to advanced PhD students in Biostatistics; introduced students to the major types of mathematics and statistics used in neuroimaging, brain mapping, and medical image analysis; discussed major research challenges in brain imaging; gave software demonstrations of major software packages used to analyze brain images.

III. Anatomy Workshops, UCLA Lab of Neuro Imaging (Quarterly, 1994-99):

- Recruited, supervised and trained students in neuroanatomy, and in mathematical and computational techniques for image analysis. Supervised individual projects graduate and undergraduate projects on brain mapping, cryosection, MR, PET and histologic image processing and statistical analyses of neuroimaging data. Please see attached letters from students.

IV. Teaching the Mathematics of Neuroimaging through Animation (Educational Videos; Summer 1999-)

- Created a series of educational video sequences, teaching the mathematical and technical approaches used in neuroimaging through the use of graphics and animation. Video segments are designed to introduce neuroimaging concepts to lay audiences and students at a high school/early undergraduate level. This animation series will be expanded in the coming years, supported by grant funding from the National Center for Research Resources (NCRR; joint work with John Bacheller, Rico Magsipoc, and Arthur Toga).

V. Functional Neuroimaging Class M285

- Guest lectured for Mark Cohen and Russ Poldrack's graduate class on functional neuroimaging (2-hour lecture). November 23, 2004. Topic: Brain Image Registration and Brain Atlases in Neuroimaging.

V.D. UCLA SEMINAR TEACHING:

University of California Los Angeles, Department of Mathematics

Mathematical/Computational Strategies for Mapping the Human Brain, Invited Speaker, UCLA Mathematics Seminar Series, Host: Prof. Tony Chan, Chair, UCLA Dept. Mathematics, **November 20, 1997.**

University of California Los Angeles, Department of Statistics

Encoding Structural and Functional Information in Human Brain Image Databases, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Ker-Chau Li, UCLA Dept. of Statistics, **February 27, 1997.**

University of California Los Angeles, Dept. of Biomathematics

Detection and Quantification of Anatomic Abnormalities using a Probabilistic Atlas of the Human Brain, Invited Speaker, UCLA Seminars in Biomathematics, Host: Carol Newton, M.D., Ph.D., UCLA Dept. of Biomathematics, **April 4, 1996.**

University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology

Pathology Detection using a Probabilistic Reference System for the Human Brain, Invited Speaker, UCLA Human Brain Mapping Seminars, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 11, 1998.**

University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology

Detection and Mapping of Abnormal Brain Structure in Development and Disease using Neuroimaging, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **April 22, 1998.**

University of California Los Angeles, Division of Brain Mapping, Dept. of Neurology

Challenges in Population-Based Brain Mapping: Dynamic, Disease-Specific and Probabilistic Brain Atlases, Invited Speaker, UCLA Human Brain Mapping Seminars, Ahmanson-Lovelace Brain Mapping Center, Host: John Mazziotta, M.D., Ph.D., UCLA Dept. of Neurology, **March 10, 1999.**

Veteran's Administration (VA) Hospital, West Los Angeles, CA

Challenges in Population-Based Brain Mapping, Invited Speaker, Hosts: Eric Cheng, M.D., Chief Resident, and Claude Wasterlain, M.D., UCLA Dept. of Neurology and VA Medical Center, **October 1, 1999.**

University of California Los Angeles, Department of Statistics

Mathematical and Statistical Challenges in Population-Based Brain Imaging, Invited Speaker, UCLA Seminars in Statistics, Host: Prof. Rick Schoenberg, UCLA Dept. of Statistics, **February 1, 2000.**

University of California Los Angeles, Department of Biostatistics

Mathematical and Statistical Challenges in Brain Mapping, Invited Speaker, UCLA Seminars in Biostatistics, Hosts: Prof. Dorota Dabrowska, UCLA Dept. of Biostatistics, **February 9, 2000.**

University of California Los Angeles, Crump Institute for Molecular Imaging (CIMI), Department of Medical and Molecular Pharmacology

An Introduction to Current Challenges in Brain Mapping, Invited Speaker, Seminars in Imaging and Instrumentation, Host: Prof. Simon Cherry, Associate Director, Crump Institute for Molecular Imaging, 3:00PM, **November 29, 2000.**

University of California Los Angeles, Institute for Pure and Applied Mathematics

Mathematical Challenges in Population-Based Brain Mapping, Invited Speaker and Session Chair, Workshop on Mathematics and Modeling in Brain Mapping, Conference on Imaging in Medicine and Neurosciences, May 21-25 2001, UCLA Institute for Pure and Applied Mathematics, Hosts: Eitan Tadmor PhD, Stan Osher PhD, and Tony Chan PhD, **May 24, 2001.**

University of California Los Angeles, Institute for Pure and Applied Mathematics

Brain Image Analysis: Recent Advances and Current Mathematical/Computational Challenges, Invited Speaker, Workshop on Scientific Data Mining (SDM2002), January 14-18 2002, UCLA Institute for Pure and Applied Mathematics, Hosts: Chandrika Kamath PhD, Lawrence Livermore Labs., and Padhraic Smyth PhD, UC Irvine, **January 15, 2002.**

University of California Los Angeles, Neuroscience Grand Rounds, Dept. of Neurology

Brain Imaging in Diseased Populations: Recent Advances and Future Promise, Invited Speaker, UCLA Neurology Grand Rounds, Host: Robert C. Collins, M.D., Chair, Dept. of Neurology, **January 23, 2002.**

UCLA/Los Angeles Psychiatric Institute (LAPSI), Sawtelle Blvd., Los Angeles, CA

The Child and Adolescent Brain: What Neuroimaging Reveals About Development, Guest Speaker, Host: Regina Pally, PhD, UCLA Neuropsychiatric Institute, 8:00 PM – 9:00 PM, CME Accredited Course, **February 25, 2002.**

UCLA Life Course Development Seminar, Los Angeles, CA

Brain Mapping in Development, Dementia, and Schizophrenia, Guest Speaker, joint with Tyrone Cannon PhD, Professor and Chair, UCLA Psychology. Hosts: Neal Halfon PhD, Dept. Pediatrics, Patricia Greenfield PhD, UCLA Psychology, and Lenny Rome PhD, Dean of Research, UCLA School of Medicine; UCLA Faculty Center, 12 noon to 2PM, **November 21, 2002.**

UCLA Psychosis Seminar, Dept. Psychology, Los Angeles, CA

New Brain Imaging Strategies for Studying Schizophrenia: Mapping Dynamic, Genetic, and Drug Effects, Guest Speaker. Host: Keith Nuechterlein PhD, Neuropsychiatric Institute, UCLA School of Medicine; 10 to 11AM, **December 6, 2002.**

UCLA Brain Matters Seminar, Dept. Neurology, Los Angeles, CA

Brain Imaging in Alzheimer’s Disease, Schizophrenia, and Development: New Advances and Challenges, Guest Speaker. Host: Catarina de Carvalho, Dept. Neurology, UCLA School of Medicine; Oldendorf Room, 4 to 5PM, **February 10, 2003.**

IPAM Program on Research in Industrial Projects for Students (RIPS), Dept. Mathematics, Los Angeles, CA

Mathematics and Brain Mapping, Guest Speaker to Summer School Students. Host: Mark Green, Dept. Mathematics, IPAM Conference Room. **August 22, 2003.**

UCLA Neuropsychiatric Institute Grand Rounds, Los Angeles, CA

Mapping Brain Changes in Alzheimer’s Disease, Schizophrenia and Development, Mini-Series on Geriatric Psychiatry, Host: Anand Kumar MD, UCLA NPI, **April 6 2004.**

VI. UNIVERSITY/DEPARTMENTAL SERVICE

VIA. ACADEMIC COMMITTEE SERVICE, 1999- (served on 90+ PhD committees)

I. PhD Advisory Committee and Dissertation Committee Service (please also see Section III).

Student	Degree Department	Project(s)
1. Katherine Narr Oral PhD Exam: November 30, 1999	PhD	Neuroscience Brain Mapping in Schizophrenia Midstream: June 7 2001 Final Defense: 2002
2. Rebecca Blanton	PhD	Neuroscience Pediatric Neuroimaging & Developmental Disorders Oral PhD Exam: April 10, 2000 Midstream: Jul 12 2001 Final Exam: Nov 21 2003
3. Daniel Rubins	PhD	Biomedical Physics Brain Mapping with Positron Emission Tomography Oral PhD Exam: August 11, 2000 Defense: May 27 2003
4. Alison Burggren	PhD	Neuroscience Early Detection of Alzheimer’s Disease using Functional Imaging and ApoE Genotyping Oral PhD Exam: July 31, 2001 Midstream Exam: Dec 16 2002 Final Exam: Dec 1 2003

5. Andrew Janke	PhD	*Biomedical Physics	External Thesis Examiner PhD Completed: January 2003. *University of Queensland, Australia
6. Allan Mackenzie-Graham	PhD	Neuroscience	Atlases of the Mouse Brain Oral PhD Exam: Apr 29, 2003 Midstream Exam: Oct 3 2005 Defense Exam: March 24 2006
7. Alain Pitiot Final Defense: Nov 26 2003 (in France) Co-Chair with Nicholas Ayache	PhD	Computer Science	Brain Image Segmentation
8. Haihong Zhuang	PhD	Biomedical Eng.	Brain Image Segmentation Defense: Oct 11 2006
9. Yuan Xu Prospectus Exam: Nov 20 2003 Final Defense: Feb 25 2008	PhD	Biomedical Eng.	Hippocampal Shape Analysis
10. Janelle Taylor Oral PhD Exam: Feb 12 2004	PhD	Neuroscience	Language Systems in Autism, Childhood Onset Schizophrenia and Epilepsy
11. David Rex	MD/PhD	Neuroscience	Brain Image Analysis Pipelines Oral PhD Exam: March 16 2004 Midstream Exam: May 18 2004 Defense Exam: July 2 2004
12. Meredith Braskie	PhD	Neuroscience	Brain Mapping in ApoE Subjects Oral PhD Exam: Apr 12 2004 Midstream Exam: Oct 27 2005 Defense Exam: Oct 9 2006
13. Andy Frew	PhD	Biomedical Physics	Brain Mapping in Tumor Patients Oral PhD Exam: May 4 2004 Final Defense: Nov 14 2005
14. Mark Moelich	PhD	Mathematics	Automated Target Tracking Final Defense: May 11 2004
15. Triet Le	PhD	Mathematics	BMO Functions in Image Analysis Oral PhD Exam: June 9 2004 Defense Waived: May 2006 PhD Received: June 5 2006
16. Siamak Ardekani	PhD	Biomedical Physics	Atlases of DTI and Parametric MRI Oral PhD Exam: 2004

Defense Exam: Nov. 2 2005

17. Hillary Protas	PhD	Biomathematics	Cortical Maps of Amyloid using PET Oral PhD Exam: July 27 2004 Defense Exam: Jan 22 2010
18. Terrance Williams	PhD	Psychology	Schizophrenia and ERPs Oral PhD Exam: August 26 2004 Defense Exam: June 4 2007
19. Linh Lieu	PhD	Mathematics	K-Functionals for Image Denoising Oral PhD Exam: Sept. 14 2004 Final Defense: May 22 2006
20. Libby O'Hare	PhD	Neuroscience	Brain Mapping and the Cerebellum Oral PhD Exam: Dec. 20 2004 Final Defense: May 7 2008
21. Fred Park	PhD	Mathematics	Image Restoration via Total Variation, Inpainting, and Texture Removal Oral PhD Exam: Oct. 7 2005
22. Erh-Fang Lee	PhD	Neuroscience	Brain Atlas of the C57BL6 Mouse Oral PhD Exam: Oct. 21 2005 Defense: July 12 2007
23. Jennifer Ogren	PhD	Neurobiology	Brain Mapping in Epilepsy Oral PhD Exam: Oct. 31 2005 Defense: May 27 2008
24. Xue Hua	PhD	Neuroscience	Tensor Morphometry in Autism Oral PhD Exam: Mar 6 2006 Defense: Nov 10 2008
25. Ming Chang Chiang MD	PhD	Biomedical Eng.	Fluid Morphometry and DTI Oral PhD Exam: Aug 17 2006 Final Defense: Jan 14 2008.
26. Ronald Lok Ming Lui	PhD	Mathematics	Surface Modeling in Brain Mapping Oral PhD Exam: Sep 6 2006 Defense: May 28 2008
27. Igor Yanovsky	PhD	Mathematics	Nonlinear Image Registration Defense: April 8 2008
28. Caroline Brun	PhD	Biomedical Physics	Riemannian Tensor Morphometry Oral PhD Exam: Dec 12 2006 Defense: May 15 2009
29. Bin Dong	PhD	Mathematics	Spherical Wavelet Transforms

/Split Bregman Method

Oral PhD Exam: Dec 12 2006
Defense: April 7 2009

30. Agatha Lee PhD

**Biomedical
Engineering**

Deformation Morphometry and DTI to
Map Gene Effects on Brain

Oral PhD Exam: Dec 13 2006

Defense: Nov 18 2009

31. Lara Foland PhD

Neuroscience

fMRI and MRI in Bipolar Illness

Oral PhD Exam: Dec 15 2006

Midstream Exam: Feb 25 2009

Defense: Dec 17 2010

32. Tin Man Lee PhD

Biomedical Physics

Diffusion Tensor Image Analysis

Oral PhD Exam: March 16 2007

Defense: April 16 2008

33. Ilhwan Jo PhD

Mathematics

Tracking Axons in Confocal
Microscopy

Oral PhD Exam: March 16 2007

34. Jason (Ginmo) Chung PhD

Mathematics

Atlas-Guided Chan-Vese MRI
GM/WM Segmentation

Defense: April 19 2007

35. Hussain Tameem PhD

**Biomedical
Engineering**

Radiological Image Segmentation

Oral PhD Exam: May 15 2007

PhD Passed: May 2008

(Defense Waived)

36. Shishir Dube PhD

**Biomedical
Engineering**

Medical Image Segmentation

Oral PhD Exam: June 15 2007

(Defense Waived)

37. Yunho Kim PhD
HARDI Denoising by Integrating over
the Sobolev Exponent

Mathematics

Sobolev Space Denoising and

Oral PhD Exam: Sept 25 2007

Defense Exam: May 11 2009

38. Tungyou Lin PhD

Mathematics

Variational Image Matching

Oral PhD Exam: Jan 24 2008

Defense: May 20 2010

39. Tom Goldstein PhD

Mathematics

Compressed sensing for MRI

Oral PhD Exam: May 29 2008

Defense: May 18 2010

40. Wenhua Gao PhD

Mathematics

Shape Modeling in MRI

Oral PhD Exam: Aug 19 2008

Defense: April 6 2011.

41. Jon Morra	PhD	Biomedical Engineering	Automated Hippocampal Segmentation using Adaboost methods Oral PhD Exam: Aug 21 2008
42. Todd Tishler	PhD	Neuroscience	Mapping Brain Iron Content in Aging PhD Defense Exam: Oct. 16 2008
43. Liang Zhan	PhD	Biomedical Engineering	HARDI (High-Angular Resolution Diffusion Imaging) Analysis Oral PhD Exam: Sep 8 2008
44. Neda Jahanshad	PhD	Biomedical Engineering	Genetics of DTI Oral PhD Exam: Jan 2012 Defense: May 23 2012
45. Mark Roden	PhD	Biomedical Engineering	Medical Image Analysis Oral PhD Exam: Nov. 19 2009
46. Pamela Douglas	PhD	Biomedical Engineering	Manganese & Machine Learning Defense: Sept 16 2010
47. Bruce (Cheng-Li) Liu	PhD	Biomedical Engineering	Medical Image Segmentation Oral PhD Exam: May 28 2009 Defense: May 25 2011.
48. Rongjie Lai	PhD	Mathematics	Hippocampal Shape Modeling Oral PhD Exam: July 30 2009 Defense: May 28 2010
49. Alvin Tsz Wai Wong	PhD	Mathematics	Modeling Surface Geometry Oral PhD Exam: July 30 2009 Defense: May 24 2011
50. Vishal Patel	PhD	MD/PhD	HARDI and DTI Oral PhD Exam: Oct 15 2009 Defense: May 2 2011
51. Laurel Martin-Harris	PhD	Neuroscience	Amyloid PET ligands, cortical thickness and ApoE4 Oral PhD Exam: May 24 2010
52. Wenye Ma	PhD	Mathematics	Removing Illumination with Split Bregman Method ATC Exam: Nov 4 2009 Defense: April 8 2011

53. Juan Eugenio Iglesias	PhD	Biomedical Eng.	Multimodality Image Statistics ATC Exam: Jan. 13 2010 Defense: May 25 2011
54. Naomi Santa Maria	PhD	Neuroscience	Imaging Brain Trauma ATC Exam: Jan 22 2010 Defense: Jan 26 2012
55. Nataliya Portman	PhD	*Mathematics	Pattern Theoretic Modelling of Biological Growth Defense: Dec 7 2009
*University of Waterloo; External Thesis Examiner			
56. Alvina Goh	PhD	*Computer Sci.	Riemannian analysis of HARDI
*Johns Hopkins University; External Thesis Examiner Defense: March 30 2010.			
57. John Colby	MD/PhD	Biomed Eng.	DTI in Children
ATC Exam: July 26 2010 Defense: March 23 2012			
58. Carl Lederman	PhD	Mathematics	Labeling Brain Structures in MRI
ATC Exam: March 10 2010 Defense: July 12 2011			
59. Jason Stein	PhD	Neuroscience	Imaging Genetics and vGWAS
ATC Exam: Jan 6 2010 Midstream Exam: Feb 1 2011 Eiduson Lecture: May 17 2011			
			Defense: May 24 2011
60. April Ho	PhD	Neuroscience	Obesity, Exercise & the Brain
ATC Exam: Jan 7 2010 Defense: Sept 7 2010 (2.9 years for PhD)			
61. Vishal Patel	MD/PhD	Biomedical Eng.	HARDI and Diffusion Imaging
ATC Exam: Spring 2010 Midstream Exam: Summer 2010 Defense: May 2 2011			
62. Rami Mohieddine	PhD	Mathematics	Level Set Computations with Open Curves
ATC Exam: Sept 7 2010			
63. Evan Lutkenhoff	PhD	Neuroscience	GWAS in Schizophrenia
ATC Exam: Sept 27 2010 Defense: May 16 2011			

64. Jeff Rudie ATC Exam: Dec 1 2010 Midstream Exam: Nov 29 2011 Defense: May 30 2012	MD/PhD	Neuroscience	Brain Connectivity in Autism
65. Omid Kohannim ATC Exam: March 8 2011	PhD	BME	Multi-SNP Genomics and Diagnosis Defense: May 29 2012
66. Jesse Brown ATC Exam: March 10 2011	PhD	Neuroscience	Mapping Brain Connectivity
67. Nathan Hageman Defense: May 24 2011	MD/PhD	Neuroscience	Tractography and DTI
68. Angie Morales ATC Exam: Aug 2 2011	PhD	Neuroscience	Methamphetamine & the brain
69. Florence Roussotte Defense: Sep 9 2011	PhD	Neuroscience	Fetal Alcohol Syndrome
70. Yan Jin ATC Exam: Sep 12 2011	PhD	Biomed. Eng.	Clustering Tracts in DTI
71. Madelaine Daianu ATC Exam: Oct 2011	PhD	BME	Diffusion MRI in Mice and Humans
72. Melissa Tong distorted by Turbulence ATC Exam: Sep 14 2011 Defense: Nov 14 2012	PhD	Mathematics	Denoising HARDI and Videos
73. Meghan Meyer ATC Exam: Feb 29 2012	PhD	Psychology	Social Cognitive Neuroscience
74. Nic Novak Left PhD Program to create Start-Up Company in New York	PhD	Neuroscience	Genomic Analysis of Images
75. Jonathan Brown Metallo-Organic Frameworks ATC: Oct 2012	PhD	Chemistry	Synthetic Chemistry of MOFs:
76. Sarah Madsen ATC: Nov 14 2012	PhD	Neuroscience	Thyroid hormone and the Aging Brain
77. Leo Moore ATC: Spring 2013	PhD	Neuroscience	TMS Interventions in Psychiatry
78. Boris Gutman ATC: April 2013, UCLA	PhD	BME	Computational Anatomy

79. Hayden Schaeffer ATC: May 21 2013	PhD	Mathematics	Mathematical Image Analysis
80. Benjamin Wade ATC: March 2016, UCLA	PhD	BME	Shape Analysis in HIV/AIDS
81. Brandy Riedel ATC: Feb. 2016, USC; PhD 2018	PhD	Neuroscience	Alzheimer Genetics
82. Greg Fleishman ATC: March 2016, UCLA	PhD	BME	Imaging Alzheimer's over Time
83. Julio Villalon ATC: Jan. 2018, USC	PhD	BME	Diffusion MRI of the Brain
84. Talia Nir ATC: 2017, USC, PhD defense: 2019	PhD	Neuroscience	Brain Imaging in HIV/AIDS
85. Daniel Rinker ATC: Nov 2016, USC	PhD	Neuroscience	Imaging & Genetics of MS Defense: Nov. 2017, USC
86. Chris Ching ATC: 2017, UCLA; PhD defense: 2019	PhD	Neuroscience	Computational Anatomy in bipolar disorder and 22q deletion syndrome
87. Leanna Hernandez Defense: June 1, 2018	PhD	Neuroscience	Imaging Genetics in Autism
88. Amy Lin Syndrome ATC: June 8 2018	PhD	Neuroscience	Imaging and Genetics in 22q Deletion
89. Artemis Zavaliangos-Petropulu		PhD Neuroscience	Neuroimaging in Stroke and Dementia ATC passed: August 2019 Defense: 2021
90. Daniel Moyer PhD Defense: August 23 2019	PhD	Computer Sci.	Algorithms for Diffusion MRI
91. Samantha Betts	PhD	Neuroscience	PhD in progress; T32 received, 2019
92. Mark Shiroishi	PhD	Epidemiology	PhD in progress
93. Clio Gonzales-Zacarias	PhD	Neuroscience	PhD in progress
94. Meral Tubi	PhD	Neuroscience	PhD in progress
95. Dimitris Stripelis	PhD	Computer Sci.	PhD in progress

96. Hamza Saleem PhD Computer Sci. PhD in progress

NON-UCLA/NON-USC:

1. Leonid Teverovski PhD **Computer Science** Nonlinear Image Registration
Oral Qual Exam: Oct 4 2006
(Carnegie Mellon University, Pittsburgh, PA; Chair: Yanxi Liu, PhD; Teleconference)
 2. Xavier Pennec **Habilitation** **Statistics** Lie Groups for Tensor Modeling
Habilitation Defense: Dec 18 2006
(INRIA-Asclepios Team, Sophia-Antipolis, France; Chair: Nicholas Ayache, with Guido Gerig, Sir Michael Brady; Videoconference)
 3. Nataliya Portman PhD **Mathematics** External Thesis Examiner, Dec 2009.
**Thesis: Shape Diffeomorphisms
for Modeling Brain Growth**
As Chair of Master's Thesis Committee:
- Allen Lu M.S. **Biomedical Engineering (June 2006)**
Meena Mani M.S. **Statistics (January 2007)**
Liana Apostolova MD M.S. **Clinical Research (2009)**

VI.B. OTHER UNIVERSITY RECRUITMENT AND ORGANIZING COMMITTEES

Curriculum Committee, UCLA Inter-Departmental Graduate Program in Neuroscience, 1998

- Reviewed proposals for new classes and seminars for the UCLA Inter-Departmental Neuroscience PhD program; discussed student evaluations and proposed alterations to the core and elective Neuroscience curriculum; presented individual students' petitions for curriculum changes to the committee; supported requests for new electives on behalf of individual students.

Interview Committee for:

Chief of Service Position, Olive View and Faculty Appointment, UCLA Neurology, February 1999

Neuro-Oncology Fellowship, and Faculty Appointment, UCLA Neurology, November 2000

Associate Professor in Neurosurgery for Olive View, and Faculty Appointment, UCLA Neurology, November 2000

Interview Committee for Admissions to the UCLA Neuroscience PhD Program:

- **March 1999**
 - **February 2000**
 - **March 2000**
 - **February 2002**
 - **February 2004**
 - **February 2007**

- February 2011

Interview Committee for Admissions to the UCLA Neuroengineering PhD Program:

- March 2003
- March 2004
- February 2005

Interview Committee for the UCLA Medical Scientist Training Program (MSTP):

- October 27 2005
- April 21 2006 (recruitment/placement day; interviewed candidates who had been offered places at UCLA)
- April 19 2007 (recruitment/placement day; interviewed candidates who had been offered places at UCLA)

Interview Committee for UCLA Neurology Residency:

- Nov. 2011

Interview Committee for UCLA Psychiatry Residency:

- Nov. 30 2011

Host and Neurology Guided Tour Organizer, Congressional Staff Visit to the UCLA Medical Center, April 9, 1999

- Hosted visit of Sen. Barbara Boxer, Rep. Jerry Lewis' Congressional Staff to UCLA Medical Center, with video and imaging demonstrations at the *UCLA Laboratory of Neuro Imaging*

L.A. County High Schools Program,

Visit of L.A. County High Schools to UCLA Research Laboratories, Saturday March 13, 1999

- (With Arthur Toga) Co-hosted visit of 50 high school students and their science teachers to learn about neuroimaging and Brain Mapping at UCLA

Visit of U.S. High Schools to UCLA and Drew Medical Centers, Friday June 30, 2000

- (With Arthur Toga) Co-hosted visit of 50 high school students from around the U.S. to learn about brain mapping and medical research at UCLA

Beverly Hills Unified School District (BHUSD) 'Gifted and Talented Education' (GATE) Program, Friday February 15, 2002

- Hosted visit of 51 6th to 8th Grade school students from the L.A. area to learn about science and medical research at UCLA. Organized with Stacy Ingber, Ph.D., Jefferson Institute, Los Angeles.

National Youth Leadership Forum

July 10, 2002

- Hosted visit of 45 high school students from California to learn about medical research at UCLA.

Steering Committee, UCLA Life Science Informatics (LSI) Program, Summer 1999

Search Committee, Epilepsy Program Director, Dept. Neurology, 2011

Search Committee, Alzheimer's Disease Research Center Program Director, Dept. Neurology, 2012

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VII. RESEARCH FUNDING FROM PRIVATE AND FEDERAL AGENCIES

PAST EXTRAMURAL GRANTS 1993-2011 (now completed):

1. Howard Hughes Medical Institute, Bethesda, MD 1994-1999

Project: *Mathematical/Computational Strategies for Mapping the Human Brain*

Principal Investigator: Paul Thompson

Amount: \$146,000 over 5 years

2. United States Information Agency, Washington DC, 1993-1998

Project: *Mathematical/Computational Strategies for Analyzing 3D Human Brain Image Databases*

Principal Investigator: Paul Thompson

USIA Grant No. G-1-00001

3. Fulbright Scholar, United States-United Kingdom Fulbright Commission, London, 1993-1998

Project: *Interdisciplinary Ph.D. Program in Neuroscience, UCLA*

Principal Investigator: Paul Thompson

4. Co-Investigator, National Institute for Neurological Disorders and Stroke (NINDS/NIMH R01 NS38753) 09/30/1998-08/31/2001

Project: *Modeling Brain Morphology in 4D*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

Amount: \$476,631

5. Co-Investigator, National Science Foundation, Biological Instrumentation and Resources (BIR9322434) 1/1/94-1/1/99

Project: *Adaptive Algorithms for A Deformable Brain*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

6. Co-Investigator, International Consortium for Brain Mapping, Human Brain Project Grant 9/1/1993-8/31/1998

Project: *A Probabilistic Reference System for the Human Brain (Years 1-5).*

Role: Co-Investigator; Principal Investigators: John Mazziotta MD PhD, Arthur Toga PhD

7. Co-Investigator, International Consortium for Brain Mapping, Human Brain Project Grant 7/1/1998-6/30/2003 [Renewal of #6] (P20 MH/DA52176)

Project: *A Probabilistic Reference System for the Human Brain (Years 6-10).*

Role: Co-Investigator; Principal Investigators: John Mazziotta MD PhD, Arthur Toga PhD

Amount: \$1,100,000

8. Co-Investigator, National Center for Research Resources (NCRR) Grant (RR05956) 9/1/1994-9/1/1998

Project: *Quantitative Transformations of Digital Brain*

Role: Co-Investigator; Principal Investigator: Arthur Toga PhD

9. Co-Investigator, National Institute of Aging (NIA) Grant 07/01/1999-06/30/2000

Project: *Multi-Site Evaluation of Hippocampal Atrophy in Patients with Minimal Cognitive Impairment and Alzheimer's Disease*

Role: Co-Investigator; Principal Investigator: Jeffrey Cummings MD, Director, UCLA Alzheimer's Disease Center; Co-Investigators: Michael Mega MD PhD, Gary W. Small MD.

Amount: \$100,000 for one year

10. Co-Investigator, NARSAD Distinguished Investigator Grant 07/01/2000-06/30/2001

Project: *A Probabilistic Approach to the Study of Brain Structure in Psychiatric Disorders*

Principal Investigator: John Mazziotta MD PhD, Director, UCLA Brain Mapping Division

Role: Co-Investigator; Co-Investigators: Tyrone Cannon PhD, Arthur Toga PhD.

Amount: \$100,000 for one year

11. Principal Investigator, NIMH Intramural Service Contract (PI: Thompson, P.)

02/21/2001-02/20/2002

Project: *"Analysis of Longitudinal Brain Imaging Data in Childhood Onset Schizophrenia"*

This contract supports the analysis of brain images from children and adolescents with schizophrenia, with the goal of detecting disease-specific patterns of brain change and mapping rates of cortical tissue loss across multi-year time spans. Amount: \$30,000 Annually

12. Co-Investigator, P41 Resource Grant 1998-2002 (RR13642)

Project: *Multidimensional Brain Modeling and Mapping: A Neuroimaging Resource*

Principal Investigator: Arthur Toga PhD

Amount: \$630,357 (ANNUAL)

13. Principal Investigator, UCLA Component (PI: Paul Thompson)

National Institute of Mental Health

(R01) 07/01/1999-06/30/2004

Project: *Neuroimaging in First Episode Schizophrenia*

Principal Investigators: Robert Bilder PhD, Nathan Kline Institute, New York, NY;

Paul Thompson PhD, UCLA Component

Amount: \$293,564 over 5 years

14. Principal Investigator, Core Project 1, National Programs of Excellence in Biomedical Computing (NPEBC) Computational Biology Grant 01/01/2002-12/31/2004

Project: *Computational Biology from Genotype to Phenotype*

Co-Investigators: Arthur W. Toga PhD, Tony Chan PhD, Stan Osher PhD, Chris Lee PhD, Dan Valentino PhD

Amount: \$100,000 annual directs, for Core Project 1

15. Co-Investigator, National Institute of Mental Health (NIMH PAS-99-060) Grant 10/01/1999-09/30/2004

Project: *Mouse Brain Atlas for Functional Genomics:*

A Multimodal Multidimensional (4D) Map of the Mouse Brain

Principal Investigator: Arthur Toga PhD

16. Co-Investigator, National Institute of Aging (NIA) RO1 Grant 07/01/2000-06/30/2005

Competitive Renewal of Grant R01-AG13308

Project: *Functional MRI for Early Diagnosis of Alzheimer's Disease*

Principal Investigator: Gary Small MD, UCLA Neuropsychiatric Institute

Co-Investigator: Susan Bookheimer PhD, UCLA Brain Mapping Division

17. Consultant/Collaborator, National Institute of Mental Health (P01) 1999-2004

Project: *The Aging Brain: Vasculature, Ischemia, and Behavior*

Competitive Renewal of Program Project P01-AG12435

Principal Investigators: Helena Chui MD, University of Southern California (USC), and

Michael Weiner MD, VA Medical Center, University of California at San Francisco (UCSF).

18. Co-Investigator, National Institute of Aging (NIA) Grant 12/01/2000-11/30/2005

Project: *Toward a Multi-Modality Atlas of the Alzheimer's Brain*

Principal Investigator: Michael Mega MD PhD,

Co-Investigators: Jeffrey Cummings MD, Director, UCLA Alzheimer's Disease Center; Arthur Toga, PhD

Amount: \$1,908,229 over 5 years (\$250,000 annual direct costs)

19. Co-Investigator, General Clinical Research Center (NCRR) Grant 10/01/2000-09/30/2005

Project: *General Clinical Research Center: Brain Imaging Core*

Principal Investigators: Gerald S. Levey, Provost & Dean, UCLA School of Medicine, and Isidro B. Salusky, Program Director, UCLA Pediatrics

Co-Investigators: Arthur W. Toga PhD, John Mazziotta MD PhD, Roger P. Woods MD

Amount: \$4,541,759 over 5 years (\$804,234 annual direct costs)

20. Co-Principal Investigator, R21 Neuroimaging Technology Grant 09/2002-8/2005

Project: *Analyzing Functional & Structural MRI in FAS (Fetal Alcohol Syndrome) Children*

Co-Investigators:

Elizabeth Sowell PhD, Arthur Toga PhD, Ed Riley PhD, Susan Bookheimer PhD

Amount: \$300,000

21. Chief Investigator, National Health and Medical Research Council (NHMRC, Australia) Grant 2003-2005

Project: Brain imaging studies of auditory processing dysfunction in schizophrenia

Chief Investigators:

Ulrich Schall MD PhD, Centre for Mental Health Studies, University of Newcastle, Callaghan, NSW, Australia

Philip Ward PhD, Schizophrenia Research Unit, and Associate Professor of Psychiatry, University of New South Wales, Sydney, Australia

Pat Michie PhD, Depts. of Psychology and of Psychiatry and Behavioural Science, University of Western Australia

Paul Thompson PhD

NH&MRC Project Grant ID 252480; 2003: \$107,500; 2004: \$125,000 2005: \$125,000

(funded; no financial support permitted on Australian source grant; now ended)

22. Principal Investigator, NIBIB R21 EB001561 Neuroimaging Technology Grant 05/01/2003-02/28/2006

Project: *Algorithms to Detect Disease and Genetic Effects on the Brain*

Co-Investigators:

Tyrone Cannon PhD, Arthur Toga PhD; Consultants: Jay Giedd MD, Judith Rapoport MD

Amount: \$454,000; \$100,000 annual direct costs for 3 years

This project developed novel mathematics and computational algorithms for detecting genetic and disease effects on human brain structure.

23. Principal Investigator, NCRR R21 RR019771 Neuroimaging Technology Grant 09/30/03-09/29/05 (1-year NCTE ended Sept. 2006)

Project: *Novel PDEs for Cortical Mapping and Analysis in Disease*

Co-Investigators:

Guillermo Sapiro PhD, Arthur Toga PhD

Amount: \$323,450; \$125,000 annual direct costs for 2 years

This project developed a powerful computational framework to map disease effects on the brain. Creating a new direction in the field of computational anatomy, we built on revolutionary advances in the field of partial differential equations (PDEs) that allow geometric and statistical manipulation of surfaces.

24. Principal Investigator of Core Project 1, P41 Resource Grant 08/01/2002-07/31/2007

Project: *Computational Anatomy and Multidimensional Modeling: A Neuroimaging Resource*
Principal Investigator: Arthur Toga PhD
Amount: \$728,846 (Annual direct costs; \$100K annual directs for Thompson Core Project 1)

This proposal improved upon prior atlases and maps of brain that assumed a static morphology and prohibited the examination of time varying changes, and developed the framework and tools to rigorously evaluate dynamic changes in brain structure and function focusing particularly on processes such as development, aging and the progression of specific diseases.

25. Principal Investigator, R01 Component Project (Image Analysis Subcontract) within the ADNI (Alzheimer's Disease Neuroimaging Initiative)

09/30/04-09/29/06 (will have 2-year NCTE)

Overall PI: Mike Weiner, UCSF

Amount: \$100,000 annual direct costs (Thompson portion only)

26. Co-Investigator (10% time), National Library of Medicine (NLM)/National Institutes of Health Grant 2001-2006

Project: *A Multidimensional Alzheimer's Disease Brain Atlas*

Principal Investigator: Arthur Toga PhD

Amount: \$237,500 (ANNUAL)

27. Co-Investigator (10% time), NIBIB Human Brain Project Grant P01 EB001955 07/04/03 - 06/30/08

Project: A Probabilistic Reference System for the Human Brain (Years 11-15)

Principal Investigator: John Mazziotta MD PhD

Amount: \$857,814 (ANNUAL)

28. Co-Investigator, NIH R21 MH075944 Grant 7/1/06 – 6/30/08

Project: Mapping Brain Structure to Function in Bipolar Disorder.

PI: Lori Altshuler MD

Amount: Awarded, NARSAD Distinguished Investigator's award, April 2006.

29. Principal Investigator, R01 Component Project (Project 1) of the UCLA Alzheimer's Disease Research Center (ADRC) Grant 2004-2009

Project: *4D Brain Mapping in Alzheimer's Disease and Those At Risk*

Co-Investigators:

George Bartzokis MD, Arthur Toga PhD

Amount: \$125,000 annual directs for 5 years

RECENT GRANTS (2011-; this is a partial list; see NIH Biosketch for more):

AS PRINCIPAL INVESTIGATOR:

1. Principal Investigator, R01 Neuroimaging Technology Grant NIH/NIBIB 2007-2012

Project: *Computational Anatomy of High Field MRI/DTI*

Co-Investigators:

Guillermo Sapiro PhD, Arthur Toga PhD, Kamil Ugurbil PhD, Kelvin Lim MD

Amount: \$250K/yr for 5 years – AWARDED, June 2006 [score: 113, Percentile: top 0.7%].

This project significantly extends the power of MRI and diffusion tensor imaging (DTI) at ultra-high magnetic field strengths (7T) to resolve previously unseen features of brain structure and fiber properties, providing unique power to investigate disease.

2. Principal Investigator, R01 EB008432 NIH/NIBIB 07/01/09-06/30/13
Project: **HARDI Mapping of Disease Effects on the Brain**

Annual Direct Costs: \$611,181

This project develops tools that unleash the full power of HARDI (high-angular resolution diffusion imaging) to advance clinical studies of the brain. HARDI applies magnetic field gradients to the brain in up to 256 different directions to precisely detail the directions, pathways, and integrity of fibers and their connections. We will evaluate HARDI for understanding and revealing new descriptors of Alzheimer's Disease and HIV-related brain white matter degeneration - with immediate value for drug trials and patient monitoring in HIV, which affects 40 million people worldwide, and in AD, which affects 4.5 million individuals in the U.S. alone.

3. Principal Investigator, R01 HD050735 NICHD/NIMH - UCLA Subcontract 2007-2012

Project: **Genetic influences on the brain: A twin imaging study**

Collaboration with: Margie Wright PhD, U. Queensland, Australia

Amount: \$1,700,000 over 5 years (Thompson component only) – Direct Costs \$200K in Yrs 1-3, \$250 in Yr 4, \$300K in Yr 5 – AWARDED, June 2006 [score: 100, Percentile: top 0.4%]. Start Date: April 1 2007.

The long-term objective of this application is to characterize the differential roles of genes and environment in shaping brain structure and function, to map and identify the genes involved, and to characterize the impact of brain relevant genetic polymorphisms.

4. Principal Investigator, National Library of Medicine (NLM)/NIH Grant 09/05/07-07/31/11
R01 EB008281

Project: **A Multidimensional Alzheimer's Disease Brain Atlas**

Co-Investigators:

Arthur Toga PhD, George Bartzokis MD, Gary Small MD, Liana Apostolova MD

Amount: \$250,000 annually for 5 years (**active**; score: 121, 4th percentile; competing continuation)

5. Principal Investigator, UCLA Subcontract in GO Grant "Amyloid Imaging, VMCI, and Analysis for ADNI".
ARRA/Stimulus Grant. 09/30/2009-09/29/2011

Amount: \$687,270 to be spent over 2 years, ending 09/29/2011

6. Principal Investigator, R01 Component Project (Project 1) of the UCLA Center for Computational Biology
U54 RR021813. 09/24/04-07/31/10

Brain Mapping in HIV/AIDS

7. Co-Principal Investigator, P41 RR013642 (Toga) 08/01/07-07/31/12 NIH/NCRR \$726,835 annually
Computational Anatomy and Multidimensional Modeling

The goal of this competitive renewal application is to go beyond current atlases and maps of brain that assume a static morphology and prohibit the examination of time varying changes. We will continue to develop the framework and tools to rigorously evaluate dynamic changes in brain structure and function focusing particularly on processes such as development, aging and the progression of specific diseases.

8. Principal Investigator (UCLA subcontract),

Project Title: **Predictors of Alzheimer's Disease in Mild Cognitive Impairment**

NIH RO1 Grant, U. Pittsburgh (Oscar Lopez, PI)

Amount: 2% salary and 50% SRA support (active)

Project Dates: 12/01/07-11/30/2011

Funds - Initial Period: \$42,903 (Total Cost);

Entire Period: \$179,491 (Total Cost)

Application #: 2 R01 AG020098-06 (active, award notice: June 6 2007).

9. Co-Investigator (5% time), NINDS Epilepsy Program Project Grant, P01 NS002808-44A1 12/01/05-11/30/10

Project: A Clinical Research Program for the Partial Epilepsies

Principal Investigator: Pete Engel MD PhD

Amount: \$999,808 annual

10. Co-Investigator (1.5% time), NIBIB Swedish Twin Grant, 2R01MH052857-10 07/01/2005-06/30/2010

Project: Neural Phenotypes for Schizophrenia and Bipolar Disorder (**Swedish Twin Grant**)

Principal Investigator: Tyrone Cannon PhD

Amount: \$517,000 annual, for 5 years

11. Co-Investigator (Core C Co-Leader with Henry Huang; Project 3 Co-Leader with Susan Bookheimer; 10% time in Imaging Core and MRI Analysis RO1 Component Project), NIA Aging and Dementia Program Project Grant, PO1 AG025831-01

Project: Amyloid Plaque and Tangle Imaging in Aging and Dementia (Program Project)

Principal Investigator: Gary Small MD

Amount: TBA

12. Co-Investigator (8% time), NIDA RO1

Project: **1R01DA020726-01 Neural Systems and Inhibitory Control.**

PI: Edythe London PhD

Amount: \$16,857 Direct Costs & the corresponding Indirect Costs.

13. Co-Investigator (10% effort and 80% SRA support), NIH Grant R01 MH075007 12/01/06 - 05/30/11

PI: Nelson Freimer MD PhD

Bipolar Endophenotypes in Population Isolates

Amount: \$461,168/year.

14. Co-Investigator, NIH R01 Grant 2007-

Project: *MPPF, FDDNP and fMRI Imaging in Alzheimer's Disease.*

PI: Susan Bookheimer PhD

Amount: active

15. Co-Investigator, Australian Research Council (ARC, Australia) Grant 2005, SR0566756

Project: Application for funding to develop a software grid for data-sharing associated with the NISAD/LONI Virtual Brain Bank - The University of Newcastle

Chief Investigators: Dr FA Henskens, Dr PJ Johnston, Mr P Rasser, A/Prof PB Ward, A/Prof U Schall, Prof PT Michie, Prof V Carr, Dr PM Thompson

(now funded; no financial support permitted on Australian source grant)

16. Co-Investigator, NSF-IRES Collaboration on Medical Imaging – UCLA School of Medicine and INRIA (Sophia-Antipolis). Proposal number 6503749

Principal Investigator: Victor Vianu, UC San Diego; Co-Investigator: Nicholas Ayache PhD, INRIA Sophia-Antipolis, France

Project: Brain-Atlas Associated Team (INRIA/UCLA)

Amount: no direct support; supports regular international exchange visits to graduate students and postdocs (awarded)

GRANTS PENDING, 2011-:

1. Principal Investigator (UCLA subcontract)

Project: Bipolar Imaging Grant, UTHSCSA (Jair Soares, PI)

Amount: TBA (2% salary and 50% SRA support, pending, final revision submitted March 2006)

2. Principal Investigator (UCLA subcontract)

Project: HIV/AIDS NIH Grant, U. Pittsburgh (Jim Becker, PI)

Amount: 2% salary and 50% SRA support (pending, revision submitted Sept. 2006)

3. Co-Investigator, NIH Training Grant 2006-

PI: Nelson Freimer MD PhD

Amount: active

4. Co-Investigator, NIDA 1st RO1 Grant 2006-

Project: *Cognitive Behavioral Therapy: Cortical Function, Emotion & Methamphetamine Abuse*

PI: Edythe London PhD

Amount: TBA (pending, submitted March 2006)

5. Co-Investigator, NIDA 2nd RO1 Grant 2006-

Project: *Impulsivity and Modafenil*

PI: Edythe London PhD

Amount: 10% salary, 30% support for SRA II (pending, will be funded)

6. Co-Investigator, NIDA P20 Center Grant 2006-

Project: *Methamphetamine Program Project*

PI: Edythe London PhD

Amount: TBA (pending)

7. Co-Investigator, RO1

Project: *Autism Grant*

PI: Jennifer Levitt MD

Amount: no salary support, no % effort

8. Associate Investigator, NISAD (Australia) Medical Research Grant

Project: *A Large-Scale Imaging Database for Schizophrenia Studies*

Principal Investigator: Philip Ward PhD, Associate Professor of Psychiatry, University of New South Wales, Sydney, Australia, and Scientific Director, Neuroscience Institute of Schizophrenia and Allied Disorders (NISAD), New South Wales, Australia

Co-Investigator: Professor Pat Michie, Depts. of Psychology and of Psychiatry and Behavioural Science, University of Western Australia

Amount: TBA (pending)

9. Associate Investigator, NHMRC (Australia) Medical Research Grant

Project: *Development of Sensitive Psychobiological Measures of Incipient Alzheimer's Disease*

Principal Investigator: Dr Brona O'Dowd

Co-Investigators: Dr Greig de Zubicaray, Dr Jonathan Chalk, Dr Stephen Rose, Dr Deming Wang

Amount: \$331,299 spread over 3 years (pending)

10. Co-Investigator (CI), NHMRC (Australia) Medical Research Grant

Application ID 510276

Ward, P.B., Coltheart, M., Thompson, P.M.

Project Grant: Fractionating mismatch negativity deficits in schizophrenia and dyslexia using ERPs, fMRI and cortical surface matching.

2008: \$198,744 2009:\$168,500, 2010:\$136,750.

(no support, as US funding not allowed from Australian grant)

SERVICE AS CONSULTANT ON GRANTS:

Steve DeKosky/Jim Becker (PI), U. Pittsburgh

NIA PO1: U. Pittsburgh Alzheimer's Disease Center

Amount: \$38,000, active

Chris Johnson (PI) and David Weinstein, U. of Utah, SCI Institute

P41 Collaborative Grant - Collaborator

(no % effort, no salary support; active)

John Fossella (PI), Assistant Professor of Psychiatry, Sackler Institute, Cornell University, transferred KO1 to Mount Sinai School of Medicine, New York, NY

NIH KO1 NARSAD grant

Imaging and Genetics of Attention

(consultant and advisor; no salary support; active)

Kamil Ugurbil (PI), CMRR Minnesota

P41 Collaborative Grant - Collaborator

(no % effort, no salary support; 2007-)

Caterina Rosano (PI), U. Pittsburgh

RO1 Grant (scored 130, 5.9 percentile), July 2007-

Brain Anatomical Correlates of Mobility Control in the Oldest Old

(consultant, **awarded**)

Jair Soares (PI), UTHSCSA Texas

NIH K24: In Vivo Brain Mechanisms across the Bipolar Spectrum.

(consultant, no % effort, no salary support; pending)

Howard Aizenstein (PI), U. Pittsburgh

NIH R21 AG027858-01: Stratifying the Dementia Risk Associated with Subsyndromal Depressive Symptoms

(consultant, no % effort, no salary support; pending)

Peter Kochunov (PI), UTHSCSA Texas

NIH K award

(consultant; no salary support; active)

Elizabeth Sowell (PI), UCLA

NIH RO1: Longitudinal Mapping of Maturation Change in Brain Function-Structure Relationships

(significant contributor; no salary support; pending)

Ravi Bansal (PI), New York State Psychiatric Institute

NIH R21: *Correlates of Brain Surface Morphometry with Developmental Psychopathologies*
(consultant; no salary support; pending)

Moo Chung (PI), University of Wisconsin-Madison

NIH ADNI Ancillary Grant: *Validation of Voxel-Wise Morphometry and Its Application to AD.*
(consultant; no salary support; pending)

Allan Reiss (PI), Stanford

NIH Grant: *Imaging Software and Methods for Mapping Brain Development.*
(consultant; no salary support; pending)

Naama Bernea-Goraly and Allan Reiss (PI), Stanford

NIH RO3 Grant: *Investigation of cortical folding complexity in children with Autism, their Autism Discordant Siblings, and Controls*
(consultant; no salary support; pending)

Nick Allen (PI), Murat Yucel, and Julian Simmons, Victoria, Australia

NHMRC (Australia) Grant: Drug use and adolescent brain and behavioral development: A prospective study.
(consultant; no salary support; pending)

David Wolk (PI), UPMC – University of Pittsburgh Medical Center, Dept Neurology

NIH K23 award
(consultant; no salary support; pending – score: 133, **will be funded**)

Danielle Harvey (PI), UC Davis

NIH K24 award
(consultant; no salary support; first revision pending)

Melita Daley (PI), UCLA

NIH K award
(**Co-Mentor** – with Ty Cannon and Jennifer Levitt; no salary support; **active**)

David Glahn (PI), U. Texas Hlth Sci Ctr San Antonio

RO1: Influence of Psychosis on Brain-Behavior Endophenotypes for Bipolar Disorder
Subcontract, **Awarded**

VIII. CURRENT RESEARCH COLLABORATORS (this is a partial list, as the total number of co-authors grew to over 2,000 after the ENIGMA Consortium was formed):

Collaborator	Institution	Project
Jay Giedd MD	NIMH	Mapping Brain Growth in Children
Elizabeth Sowell PhD	UCLA Neurology	Mapping Normal and Abnormal Brain Development
Judith Rapoport MD	NIMH	Childhood Onset Schizophrenia

Michael Mega MD PhD	UCLA Neurology	Probabilistic Atlas of the Alzheimer's Brain	
Jeff Cummings MD	UCLA Alzheimer's Disease Center	Imaging in Dementia	
John Mazziotta MD PhD	UCLA Neurology	Probabilistic Reference System for the Human Brain	
Roger Woods MD	UCLA Neurology	Neuroanatomic Variability after Image Registration	
Tim Cloughesy MD	UCLA Neurology	A Dynamic Framework to Detect Change in Tumor Growth	
Jeff Alger PhD	UCLA Radiological Sciences	Tissue Classification in Malignant Glioma Patients	
Jennifer Levitt MD and Jim McCracken MD	UCLA Child Psychiatry	Constructing a Pediatric Brain Atlas	
Ivo Dinov PhD and De Witt Sumners PhD	Florida State Mathematics Dept./ UCLA	Stochastic Algorithms in Functional Brain Image Analysis	
Tonmoy Sharma MD	Institute of Psychiatry London, England	3D Brain Mapping in Schizophrenia	
Robert Bilder PhD	Nathan Kline Institute, New York	Neuroimaging in First Episode Schizophrenia: Mapping Response to Antipsychotic Medication	
Michael Weiner MD	UC San Francisco	Imaging in Aging and Alzheimer's Disease	
Greig de Zubicaray PhD Andrew Janke PhD David Doddrell PhD	University of Queensland, Australia	Mapping Atrophic Rates in Alzheimer's Disease	
James Semple PhD Beecham, UK	SmithKline	4D Imaging of Alzheimer's Disease	
Guillermo Sapiro PhD Christophe Lenglet PhD	University of Minnesota Dept. of Engineering	Analyzing Cortical Data with PDEs and Harmonic Maps	
Usha Sinha PhD & IT Medicine	UCLA Radiology Segmentation	Automated Patient Scan Retrieval using Atlas-Based	
Tyrone Cannon PhD	UCLA Psychology	Discordance Studies of Brain Structure and Function in Schizophrenia	
Susan Bookheimer PhD Zeineh MD PhD Alison Burggren PhD	UCLA Brain Mapping	High-Resolution Hippocampal Mapping for Early Diagnosis of Alzheimer's Disease	Mike

Tony Chan PhD Luminita Vese PhD Yalin Wang PhD Stan Osher PhD	UCLA Mathematics	Level Set Segmentation of Brain Images
Pat Johnston PhD South Wales	University of New	Brain Mapping in Schizophrenia
Gary Small MD	UCLA Psychiatry	Early Detection of Alzheimer's Disease in ApoE4 Genotyped Subjects
Ed Bullmore MD PhD Cambridge, UK	University of	fMRI of Brain Development
Philip Ward PhD Assen Jablensky MD Ulli Schall MD PhD	University of New South Wales, Australia	Brain Imaging in Schizophrenia
Robert Nicolson MD Canada	University of Toronto,	Autism
Dave Weinstein PhD Gordon Kindlmann PhD	University of Utah Salt Lake City	Tensor Mapping & Visualization
Tony Simon PhD	UC Davis/MIND Institute	Genetic Childhood Disorders
Margie Wright PhD Nick Martin PhD	University of Queensland, (QIMR), Australia	Imaging Genetics in Twins

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