Below is a summary of all publications organized by type and year in reverse chronological order since the inception of the LONIR in 1998.

**Books**

2015


2009


2002


**Book Chapters**

2019


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Research Papers — Peer Reviewed

2019


22. Lynch KM, Shi Y, Toga AW & Clark KA 2019 Hippocampal Shape Maturation In Childhood And Adolescence. Cerebral Cortex, 29(9):3651-3665.

24. Wei K, Tran T, Chu K, Borzage MT, Braskie MN, Harrington MG & King K  2019 White Matter Hypointensities and Hypointensities have Equivalent Correlations with Age and CSF b-amyloid and Tau in Non-demented elderly. Brain and Behavior. 9(12):e01457. PMID:31692294.


2018


14. Ho TC, Dennis EL, Thompson PM & Gotlib I 2018 Network-Based Approaches to Examining Stress in the Developing Brain, invited review article.


29. Olsen A, Dennis EL, Evesen KAI, Husby Hollund IM, Lohauguen GCC, Thompson PM, Brubakk AM, Eikenes L & Habegger AK 2018 Preterm birth leads to hyper-reactive cognitive control processing and poor white matter organization in adulthood, Neuroimage. PMID: 29191480 PMCID: PMC6625518


2017


2016


2015


60. Toga AW & Dinov ID 2015 Sharing Big Biomedical Data, Journal of Big Data, 2:7. PMCID: PMC4768816


2014


7. Braskie MN & Thompson PM 2014 A focus on structural brain imaging and ADNI, Biological Psychiatry, 75(7):527-33. PMCID: PMC4019004


25. Frohlich J & Van Horn JD 2014 Reviewing the ketamine model for schizophrenia, J Psychopharmacol. 28(4):287-302. PMID: 24257811 PMCID: PMC4133098


Registering cortical surfaces based on whole-brain structural connectivity and continuous connectivity analysis, Med Image Comput Comput Assist Interv., 17(3):161-8. PMID: 25320795 PMCID: PMC4283762


35. Irimia A & Van Horn JD 2014 Systematic network lesioning reveals the core white matter scaffold of the human brain, Frontiers in Human Neuroscience, 8:51. PMID: 24574998 PMCID: PMC3920080


45. Leung KK, Thompson PM, Jack CR & Fox NC for the Alzheimer’s Disease Neuroimaging Initiative 2014 Effects of changing from non-accelerated to accelerated MRI for follow-up in brain atrophy measurement,


57. Medland SE, Jahanshad N, Neale B & Thompson PM 2014 Whole genome analyses of whole brain data: methodological considerations in the face of an expanded search space, *Nat Neurosci.*, 17(6):791-800. PMID: 24866045 PMCID: PMC4300949


64. Pa J & Gazzaley A 2014 Flavanol-rich food for thought, Nature Neuroscience, 17(12): 1624-5. PMID: 25413084 PMCID: PMC4370619

65. Paterson RW, Bartlett JW, Blennow K, Fox NC, Alzheimer’s Disease Neuroimaging Initiative (Toga AW is an author), Shaw LM, Trojanowski JQ, Zetterberg H & Schott JM 2014 Cerebrospinal fluid markers including trefoil factor 3 are associated with neurodegeneration in amyloid-positive individuals, Transl Psychiatry, 4:e419. PMID: 25072324 PMCID: PMC419225


75. Rousette FF, Gutman BA, Madsen SK, Colby JB, Narr KL, Thompson PM & Alzheimer’s Disease Neuroimaging Initiative (ADNI) 2014 The apolipoprotein E epsilon 4 allele is associated with ventricular expansion rate and surface morphology in dementia and normal aging, Neurobiology of Aging, 35(6):1309-17. PMID: 24411483 PMCID: PMC3961511

76. Roussotte FF, Gutman BA, Madsen SK, Colby JB & Thompson PM, for the Alzheimer’s Disease Neuroimaging


82. Sepehrband F, Clark KA, Ullmann JF, Kurniawan ND, Reutens DC & Yang Z 2014 Brain tissue compartment density estimated using diffusion-weighted MRI yields tissue parameters consistent with histology, *Hum Brain Mapp*, 36(9):3687-702. PMID: 26096639 PMCID: PMC4545675


95. Toga AW & Dinov ID 2014 Sharing Big Biomedical Data, *J Big Data*, 2: 7. PMCID: PMC4768816

96. Toga AW & Thompson PM 2014 Connectopathy in Ageing and Dementia, *Brain*, 137(Pt 12):3104-6. PMID: 24399358 PMCID: PMC4008818


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immunostaining and multiple fluorescent tract tracing, J Comp Neurol, 520(1):6-33. PMID: 21674499 PMCID: PMC4104804


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24. de Zubicaray GI, Chiang M-C, McMahon KL, Shattuck DW, Toga AW, Martin NG, Wright MJ & Thompson PM 2008 Meeting the challenges of neuroimaging genetics, *Brain Imaging and Behavior*, 2:258-263. PMID: 20016769 PMCID: PMC2794202


Disease and Amnestic Mild Cognitive Impairment Assessed Using an Empirically Pre-Defined Statistical Region-of-Interest: Findings from the Alzheimer’s Disease Neuroimaging Initiative, NeuroImage, 51(2):654-64. PMID: 20202480 PMCID: PMC2856742


core aims, progress, and plans, Alzheimer's and Dementia Journal of the Alzheimer's Association, 6(3):265-273. PMCID: PMC2868595


75. Townsend JD, Eberhart NK, Bookheimer SY, Eisenberger NI, Poland-Ross LC, Cook IA, Sugar CA, Althusher LL. 2010 fMR activation in the amygdala and the orbitofrontal cortex in unmedicated subjects with major depressive disorder, Psychiatry Res., 183(3):209-17. PMID: 20708906, PMCID: PMC3832983


79. Welcome SE, Chiarello C, Thompson PM & Sowell ER 2010 Reading skill is related to individual differences in brain structure in college students. Human Brain Mapping, 32(8):1194-1205. PMID: 21523856


84. Yo
ter RA, Dahneke R, Thompson PM & Gaser C 2010 Topological correction of brain surface meshes using spherical harmonics, Hum Brain Mapp, 32(7):1109-1124. PMID: 20665722


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10. Butters MA, Aizenstein HJ, Hayashi KM, Meltzer CC, Seaman J, Reynolds III CF, Toga AW, Thompson PM, Becker JT & the IMAGE Research Group 2009 Three-dimensional surface mapping of the caudate nucleus in


35. Leow AD, Zhu S, Zhan L, McMahon K, de Zubicaray GI, Meredith M, Wright MJ, Toga AW & Thompson PM 2009 The tensor distribution function, Magnetic Resonance in Medicine, 61(1):205-214. PMID: 19097208 PMCID: PMC2770429


41. Luders E, Narr KL, Thompson PM & Toga AW 2009 Neuroanatomical correlates of intelligence, Intelligence, 37:156-163. PMID: 20160919 PMCID: PMC2770698


43. Luders E, Toga AW, Lepore N & Gaser C 2009 The underlying anatomical correlates of long-term meditation: Larger hippocampal and frontal volumes of gray matter, NeuroImage, 45(3):672-678. PMID: 19280691 PMCID: PMC3184843
44. Lu LH, Dapretto M, O'Hare ED, Kan E, McCourt ST, Thompson PM, Toga AW, Bookheimer SY & Sowell ER 2009 Relationships between brain activation and brain structure in normally developing children, *Cerebral Cortex*, 19(11):2595-604. PMID: 19240188 PMCID: PMC2758677


68. Van Horn JD & Ball C 2008 Domain-Specific Data Sharing in Neuroscience: What do we have to learn from each other? Neuroinformatics, 6(2):117-21. PMCID: PMC3319052


70. Van Horn JD & Toga AW 2009 Is it time to re-prioritize neuroimaging databases and digital repositories? NeuroImage, 47(4):1720-34. PMID: 19371790, PMCID: PMC2754579


72. Yang Y, Raine A, Narr KL, Colletti P & Toga AW 2009 Localization of deformations within the amygdala in individuals with psychopathy, Arch Gen Psychiatry, 66(9):986-94. PMID: 19736335, PMCID: PMC3192811


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54. Sowell ER, Mattson SN, Kan E, Thompson PM, Riley EP & Toga AW 2008 Abnormal cortical thickness and brain-behavior correlation patterns in individuals with heavy prenatal alcohol exposure, Cerebral Cortex, 18(1):136-144. PMID: 17443018, PMCID: PMC2770438


2007

1. Apostolova L & Thompson PM 2007 Brain mapping as a tool to study neurodegeneration, *Special Issue of Neurotherapeutics*, 4(3):387-400. PMID: 17599704 PMCID: PMC2634605


23. Glahn DC, Paus T & Thompson PM 2007 Imaging genomics: Mapping the influence of genetics on brain structure and function, Human Brain Mapping, 28(6):461-3. PMID: 17471377


32. Joshi AA, Shattuck DW & Thompson PM 2007 Brain image registration using cortically constrained harmonic mappings, Lecture notes in computer science, 4584:359-371, Springer. PMID: 17633713 PMCID: PMC4511383


58. Toga AW & Thompson PM 2007 What is where and why it is important, NeuroImage, 37(4):1045-1049. PMID: 17720552, PMCID: PMC2227945


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29. Luders E, Narr KL, Zaidel E, Thompson PM, Jancke L & Toga AW 2006 Parasagittal asymmetries of the corpus callosum, *Cerebral Cortex*, 16(3):346-54. PMID: 15901651


35. Pitiot A, Bardinet E, Thompson PM & Malandain G 2006 Piecewise affine registration of biological images for volume reconstruction, Medical Image Analysis, 10(3):465-83. PMID: 15963755


37. Sowell ER, Peterson BS, Thompson PM, Kan E, Yoshii J & Toga AW 2006 Sex Differences in Cortical Thickness Mapped in 176 Healthy Individuals between 7 and 87 years, Cereb Cortex, 17(7):1550-60. PMID: 16945978 PMCID: PMC2298099


2005

1. Annese J, Gazzaniga MS & Toga AW 2005 Localization of the human cortical visual area MT based on computer aided histological analysis, Cerebral Cortex, 15(7):1044-1053. PMID: 15590914


6. Daurignac E, Toga AW, Jones DK, Aronen HJ, Hommer DW, Jernigan TL, Krystal JH, Mathalon DH 2005 Applications of morphometric and diffusion tensor magnetic resonance imaging to the study of brain...


36. Toga AW & Thompson PM 2005 Genetics of Brain Structure and Intelligence, Annual Review of Neuroscience, 28:1-23. PMID: 15651931


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1. Annese J, Gazzaniga MS & Toga AW 2004 Localization of the human cortical visual area MT based on computer aided histological analysis, Cerebral Cortex, 15(7):1044-53. PMID: 15390914


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20. Toga AW 2003 The Laboratory of Neuro Imaging; What it is, why it is and how it came to be, *IEEE Trans. on Med. Imaging*, 21(1):1333-1343.


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mapping of hippocampal atrophy and its clinical correlates in 400 subjects with Alzheimer’s disease, mild cognitive impairment, and elderly controls, *Hum Brain Mapp.*, 30(9):2766-88. PMID: 19172649 PMCID: PMC2733926


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Research Papers Peer Reviewed (In Press)

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Research Papers Submitted

2019


Proceedings — Peer Reviewed

2019


2018


2016


5. Moyer D, Gutman B, Jahanshad N, Nir T & Thompson PM 2016 Cluster weighted regressions for connectome analysis, ISBI, Prague, Czech Republic, April 13-16.


2015


27. Villalon-Reina JE, Nir TM, Jahanshad N, Zhan L, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ & Thompson PM 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, Munich, Germany, October 9.


2014


2013


2012


to changes in brain integrity and size, 19th Conference on Retroviruses and Opportunistic Infections (CROI), Seattle, Washington, March 3-8.


2011


using multi-locus, genome-wide scans and ridge regression, 8th IEEE International Symposium on Biomedical Imaging (ISBI), Chicago, IL, March 29-April 3.


2010


2009


26. Joshi S, Marquina A, Osher S, Dinov I, Van Horn JD & Toga AW 2009 Edge-enhanced image reconstruction using (TV) total variation and Bregman refinement, 2nd International Conference on Scale Space Methods and Variational Methods in Computer Vision (SSVM), Voss, Norway, June 1-5.


34. Li Q, Joshi AA & Leahy RM 2007 A registration framework based on harmonic mapping for inter-subject comparisons in small animal PET/CT imaging, JMIC, Providence, Rhode Island, September 8-11.


63. Welcome S, Chiarello C, Thompson PM, & Sowell ER 2009 A comparison of cortical anatomy between college students with different reading skills, Cognitive Neuroscience Society Conference (CNS), March 20-23.


2008


2007


2006


2005


4. Juslin A, Reilhac A, Magadan-Mendez M, Alban E, Tohka J & Ruotsalainen U 2005 Assessment of separation of functional components with ICA from cardiac perfusion PET phantom images for volume extraction with deformable surface model, 3rd Int. Conf. on Functional Imaging and Modeling of the Heart (FIMH'05), Barcelona, Spain, June 2-4.


2004


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1998


**Research Papers — Submitted**

2019


**Abstracts**

2019


6. Thomopoulos SI, Nir TM, Villalon-Reina JE, Haddad E, Jahanshad N, Reid RI, Bernstein MA, Borowski B,


2018


6. Ching C et al. 2016 NeuroHIV: A Novel High-Resolution Subcortical Shape Analysis, Conference on Retroviruses and Opportunistic Infections (CROI), Boston, MA, [CROI Scholar Award].


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52. Mark W. Logue a, *Sanne J.H. van Rooij c, *Dennis EL b, Sarah L. Davis d, e, Courtney C. Haswell d, e, Lauren A.M. Lebois f, Milissa L. Kaufman f, Jonathan D. Wolff f, Lauren O'Connor f, Staci A. Gruber f, Justin T. Baker f, Sherry R. Winternitz f, Kerry J. Ressler f, Lagopoulos J g, Elbert Gueze h, Jennifer S. Stevens c, Tanja Jovanovic c, Miranda Olff i, Laura Nawijn i, Mirjam van Zuiden i, Jessica L. Frijling i, Saskia B. Koch i, Richard A. Bryant j, Mayuresh Korgaonkar j, Mark W. Miller a, Jasmie P. Hayes a, Jeffrey M. Spielberg a, Erika J. Wolf a, David H. Salat a, William P. Milberg a, Regina E McGlinchey a, Katie A. McLaughlin k, Margaret A. Sheridan l, Peverill M k, Israel Liberzon m, Anthony P. King m, Xin Wang m, n, Jahanshad N b, Thompson PM b, Harpaz-Rotem I o, Levy I o, Chadi G. Abdallah o, p, Wrocklage K p, John H. Krystal p, Stein D q, Ipsen J q, Sheri Koopowitz q, Ruth Lanius r, Maria Densmore r, Dick J. Veltman i , s, Thomaes KS, Morey RA d, e 2016 Reduced Amygdala and Hippocampal Volume in Post-traumatic Stress Disorder from Multi-Site Investigation by ENIGMA and PGC Consortia, American College of Neuropsychopharmacology (ACNP), Hollywood, Florida, December 4-8.


SNPs in FRMD6 linked to AD, Alzheimer's Association International Conference (AAIC), Toronto, Canada, July 24-28.


67. Rajagopalan P, …, Thompson PM 2016 Higher levels of stress hormone, Cortisol, is associated with larger ventricular volumes, in two independent elderly study cohorts, submitted to RSNA 2016

Injury using Multimodal Registration and Automatic Multi-atlas Tract Extraction (autoMATE), SFN, San Diego, CA, USA, Nov 2-6.


70. Riedel BC, Brinton RD & Thompson PM 2016 Elucidating the role of ABO blood type in risk for Alzheimers Disease, Cognitive Neuroscience Society, New York, New York, April 2-5.


90. Thompson PM 2016 Enigma-Nd: The Enigma Neuroimaging Genetics Project For Neuropsychiatric Disease and Aussie, Royal Australia and New Zealand Congress on Psychiatry, Hong Kong, Hong Kong, May 8-12.


### 2015


72. Pan TS, Toga AW & Clark KA 2015 Multiple genetic risk factors lead to increased atrophy in Alzheimer's disease, Organization for Human Brain Mapping annual meeting, Honolulu, Hawaii, June 14-18.


94. Villalon-Reina JE, Nir T, Jahanshad N, Zhan L, McMahon K, de Zubicaray GI, Martin NG, Wright MJ & Thompson PM 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, Oct. 2015


2014


60. Madsen SK, Gutman BA, Rajagopalan P, Toga AW, Thompson PM & the ADNI. Cortisol is associated with thinner cortical gray matter in 512 elderly ADNI participants. OHBM 2014, Hamburg, Germany, June 8-12.


68. Prasad G, Sacchet MD, Foland-Ross LC, Gotlib I & Thompson PM 2014 Classifying Major Depression Using Brain Connectivity with Augmented Data from Alzheimer’s Disease. OHBM 2014, Hamburg, Germany, June 8-12.


78. Roussotte FF, Gutman BA, Madsen SK, Colby JB & Thompson PM for the Alzheimer's Disease Neuroimaging Initiative (ADNI) 2014 CLU genetic variant affects ventricular expansion and surface morphology in the elderly. OHBM 2014, Hamburg, Germany, June 8-12.


2013


2011


2010


34. Jahanshad N, Stein JL, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ, Toga AW & Thompson PM 2010 Commonly-carried variants in the visual pathway gene, RAFTLIN, are associated with reduced white matter integrity in 451 young twins imaged with DTI, 40th Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA, November 13-17.


41. Jung CH, Levey TC, Du AX, Cuzzocreo JL, Baloh RW, Perlman SL, Prince JL, Toga AW, Ying HS & Ying SH 2010 MRI demonstrates the anatomic basis of oculomotor deficits in normal aging, 40th Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA, November 13-17.


44. Lee AD, Leporé N, Brun CC, Barysheva M, Toga AW, McMahon KL, de Zubicaray GI, Martin NG, Wright MJ & Thompson PM 2010 Genetic influences on brain architecture from multivariate diffusion tensor data, Organization for Human Brain Mapping, Barcelona, Spain, June 6-10.


46. Lee AD, Reiss AL, Toga AW & Thompson PM 2010 Brain asymmetry mapped using tensor-based morphometry in 22q11.2 deletion syndrome and in normally developing children, Organization for Human Brain Mapping, Barcelona, Spain, June 6-10.


49. Luders E, Cherbuin N, Thompson PM, Gutman B, Anstey K, Sachdev P & Toga AW 2010 Almost nothing is left in the association between corpus callosum size and handedness, 16th Annual Meeting of the Organization for Human Brain Mapping, Barcelona, Spain, June 6-10.


2009


of 10 studies using tensor based-morphometry and automated hippocampal mapping, International Conference on Alzheimer’s Disease (ICAD). Vienna, Austria, July 11-16.


2008


2007


11. Poland 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, 37th Annual Meeting of the Society for Neuroscience (SfN), San Diego, CA, Nov. 3-7.


2006


30. 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...


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38. Thompson PM 2005 Mapping Genetic Influences on Brain Structure and Intelligence, Breakfast Symposium, Toronto, Canada.


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17. Pitiot A, Delingette H, Toga AW & Thompson PM 2003 Learning Object Correspondences with the Observed Transport Shape Measure, 18th International Conference on Information Processing in Medical Imaging, IPMI, Ambleside, UK, July 20-25.


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5. Pitiot A, Toga AW, Ayache N & Thompson PM 2002 Texture-Based MRI Segmentation with a Two-Stage Hybrid Neural Classifier, IEEE World Congress on Computational Intelligence and Neural Nets, Honolulu, HI, May 12-17.


gray matter loss in adolescents with schizophrenia, 32nd International Meeting of the Society for Neuroscience, Orlando, FL, November 2-7.

2001


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