

Curriculum Vitae
Lei Wang, Ph.D.

PERSONAL INFORMATION

Office Address Northwestern University Feinberg School of Medicine
Department of Psychiatry and Behavioral Sciences
710 N. Lake Shore Drive, Abbott Hall 1322
Chicago, IL 60611
Tel: 312-503-3983
Fax: 312-503-0527
Email: leiwang1@northwestern.edu

Present Position: Associate Professor with Tenure

EDUCATION

1986 - 1990 B.S., Electrical Engineering *with Honors*, University of Maryland at College Park,
Magna Cum Laude
1990 - 1992 S.M., Engineering Science, Harvard University
1992 - 1995 Ph.D., Engineering Science, Harvard University

POSTDOCTORAL RESEARCH TRAINING

1996 – 1998 Center for Imaging Science, Department of Electrical Engineering, Washington
University in St. Louis, Mentor: Dr. Michael I. Miller

FACULTY APPOINTMENTS

2004 – 2005 Research Instructor, Washington University School of Medicine, Department of
Psychiatry
2005 – 2008 Research Assistant Professor, Washington University School of Medicine, Department of
Psychiatry
2008 – 2017 Assistant Professor, Northwestern University Feinberg School of Medicine, Department
of Psychiatry and Behavioral Sciences
2008 – 2017 Assistant Professor, NUFSM, Department of Radiology
2009 – Core Faculty, Department of Psychiatry and Behavioral Sciences, Division of
Psychology, NUFSM
2010 – Graduate Faculty, The Graduate School, Northwestern University
2017 – Associate Professor with Tenure, NUFSM, Department of Psychiatry and Behavioral
Sciences
2017 – Associate Professor with Tenure, NUFSM, Department of Radiology

COMMITTEE SERVICE

External
2010 – External Advisory Board, F. M. Kirby Research Center, Johns Hopkins University
2010 – Delphi Panel Member, A Harmonized Protocol For Hippocampal Volumetry: An EADC-
ADNI Effort

- 2013 – Technical Advisory Committee Member, Expansion Project of the EADC-ADNI Hippocampal Harmonization Effort
- 2013 – Steering Committee (Chairing since 2015), The Hippocampal Subfield Group (HSG)
- 2013 – 2015 Conference Committee, International Society for Frontotemporal Dementias
- 2016 – 2018 Education and Training Committee, American College of Neuropsychopharmacology (ACNP)

Northwestern University/Feinberg School of Medicine

- 2008 – Chair, Executive Committee, Northwestern University Neuroimaging Data Archive (NUNDA)
- 2008 – 2011 Steering Committee, Center for Advanced MRI
- 2011 – Steering Committee, Center for Translational Imaging Human MRI
- 2011 – Steering Committee, Center of Translational Imaging Animal MRI Subdivision
- 2011 – 2014 Junior Faculty Research Advisory Council
- 2014 – Executive Committee, T32 Training Grant in Gastrointestinal Physiology and Psychology, Keefer, Pandolfino, Directors, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)
- 2015 Faculty Search Committee, Departments of Radiology and Biomedical Engineering
- 2015 Neuroradiology Section Chief Search Committee, Department of Radiology
- 2015 – Admissions Committee, Medical Scientist Training Program (MSTP)
- 2017 – Steering Committee, Institute for Innovations in Developmental Sciences (DevSci) Neurodevelopmental Resource Core

Department of Psychiatry and Behavioral Sciences, NUFSM

- 2009 – Administrative Council, Division of Psychology
- 2009 – Grand Rounds Committee
- 2015 Department Internal Review Committee
- 2016 – Research Committee, Co-Chair

AWARDS, HONORS, DISTINCTIONS

- 1989 Elected to Eta Kappa Nu, National Electrical Engineering Honorary Society
- 1989 Certificate of Scholarship, University of Maryland
- 1989 Senior Summer Scholarship, University of Maryland
- 1988 – 1990 Undergraduate Research Fellowship, Systems Research Center, University of Maryland
- 1990 Engineering Honors, University of Maryland
- 1991 – 1995 Graduate Research Fellowship, Harvard University, Fellowship, Harvard University
- 2012 Ken and Ruth Davee Award for Innovative Investigations in Affective Disorders
- 2014 Elected to American College of Neuropsychopharmacology (ACNP), Member
- 2017 Invited to Canadian Institutes of Health Research (CIHR) College of Reviewers
- 2017 IDP Foundation Research Innovation Challenge Award
- 2017 Outstanding Teacher Award, Northwestern University Feinberg School of Medicine

PROFESSIONAL SOCIETY MEMBERSHIPS

- American College of Neuropsychopharmacology (ACNP)
- Society for Neuroscience (SFN)
- Organization of Human Brain Mapping (OHBM)
- International Society for Frontotemporal Dementias (ISFTD)
- International Society to Advance Alzheimer's Research and Treatment (ISTAART)
- Canadian Institutes of Health Research (CIHR) College of Reviewers

PROFESSIONAL and SCIENTIFIC SERVICE**Conference Review**

- 2011 Abstract Reviewer, International Conference of Computer Science (ICCS)
 2011 Reviewer, Alzheimer Association International Conference Best Paper Award
 2013 – Abstract Reviewer, Annual Meeting of the Organization for Human Brain Mapping
 2013 Abstract Reviewer, Alzheimer's Association International Conference

Journal Review

Alzheimer Disease and Associated Disorders
Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring
Biological Psychiatry
Brain Connectivity
Brain Imaging and Behavior
CNS Spectrums
Computational and Mathematical Methods in Medicine
Dementia and Geriatric Cognitive Disorders
Eurographics Workshop on Visual Computing for Biology & Medicine
Frontiers of Neuroscience
Hippocampus
Human Brain Mapping
International Journal of Psychophysiology
JAMA Psychiatry
Journal of Alzheimer Disease
Journal of Neurology and Psychology
Journal of Neuroscience
Journal of Neuroscience Methods
Journal of Visualized Experiments
IEEE Transaction on Medical Imaging
IEEE Transaction on Robotics and Automation
Nature Scientific Reports
Neurobiology of Aging
Neurobiology of Disease
Neurodegenerative Diseases
NeuroImage
NeuroImage: Clinical
Neurology
Neuroscience & Biobehavioral Reviews
Neuropsychologia
PLoS ONE
Psychiatry Research
Progress in Neuro-Psychopharmacology & Biological Psychiatry
SchizophreniaForum.org
Schizophrenia Bulletin
Schizophrenia Research

Journal Editorial Service

- 2009 Co-Guest Editor, *Hippocampus*, June 2009 Special Issue: Proceedings for the Computational Hippocampal Anatomy and Physiology Workshop 2008
 2007 – Editorial Board, *Open Neuroimaging*

- 2012 – Editorial Board, *Dataset Papers in Medicine: Radiology*
 2013 – Editorial Board, *Journal of Neurology and Psychology*
 2015 Co-Guest Editor, *Neurobiology of Aging*, January 2015 Special Issue on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders
 2012 – 2017 Review Editor, *Frontiers in Neuroscience: Brain Imaging Methods*
 2017 – Associate Editor, *Frontiers in Neuroscience: Brain Imaging Methods*

Grant Review

NIH

- 2012/12 Ad hoc reviewer, NINDS Special Emphasis Panel ZNS1 SRB-G (61)
 2013/08 Ad hoc reviewer, NINDS Special Emphasis Panel ZNS1 SRB-G (69)
 2013/11 Ad hoc reviewer, NINDS Special Emphasis Panel ZNS1 SRB-G (72)
 2014/02 Mail-in reviewer, NIH Neuroendocrinology, Neuroimmunology, Rhythms and Sleep (NNRS) Study Section
 2015/02 Ad hoc reviewer, NIH Biodata Management and Analysis (BDMA) Study Section
 2015/06 Ad hoc reviewer, NINDS Special Emphasis Panel ZNS1 SRB-G (03)
 2015/10 Ad hoc reviewer, NIH Biodata Management and Analysis (BDMA) Study Section
 2016/05 Ad hoc reviewer, NIH Emerging Technologies and Training Neurosciences IRG (ETTN) L54 Study Section
 2017/06 Ad hoc reviewer, NIH Biodata Management and Analysis (BDMA) Study Section

International

- 2012 The Netherlands Organisation for Health Research and Development (ZonMw) TOP Grants
 2013 Canadian Institutes of Health Research (CIHR) Catalyst Grant
 2013 Czech Science Foundation
 2015 Czech Science Foundation
 2016 Canadian Institutes of Health Research (CIHR) Stage 1 Peer Review
 2017 Canadian Institutes of Health Research (CIHR) Stage 1 Peer Review
 2017 Canadian Institutes of Health Research (CIHR) Final Stage Peer Review
 2017 UK Medical Research Council Peer Review, Neurosciences & Mental Health Board, Neurology & neurodegeneration
 2017 Czech Science Foundation

Foundation

- 2009 Alzheimer Association
 2012 Alzheimer Association
 2013 Alzheimer Association

Institutional

- 2005 Alzheimer Disease Research Center Pilot Grants, Washington University School of Medicine
 2010 Auxiliary Board of Northwestern Memorial Hospital
 2012 Medical Student Summer Research Program, Northwestern University Feinberg School of Medicine
 2015 – Cognitive Neurology & Alzheimer Disease Center Pilot Grants, Northwestern University Feinberg School of Medicine

Conference/Workshop Organization

- 2008 Co-Chair, International Workshop on Computational Anatomy and Physiology of the Hippocampus, in Conjunction with MICCAI, New York

- 2009 Co-Chair, Workshop on In Vivo Imaging of Neurobiological Processes: Planning the Next Generation of Studies, Northwestern University Feinberg School of Medicine
- 2012 Co-Chair, International Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders, in Conjunction with MICCAI, Nice, France
- 2013 Organizing Committee, Hippocampal Subfield Segmentation Summit 1 (HS3.1), University of California at Davis
- 2013 Organizing Committee, Hippocampal Subfield Segmentation Summit 2 (HS3.2), Society for Neuroscience Satellite Meeting, San Diego, CA
- 2015 Organizing Committee, Hippocampal Subfield Boundary Working Group Meeting, Chicago, IL
- 2016 Organizing Committee, Midwest Workshop on Big Neuroscience Data, Tools, Protocols & Services
- 2017 Organizing Committee, Big Data Neuroscience Workshop 2017

University Service

- 2009 – Director, Northwestern University Neuroimaging Data Archive (NUNDA). NUNDA archives neuroimaging data collected at the Northwestern University Feinberg School of Medicine's Central for Translation Imaging, and performs image processing analysis pipelines, servicing over 500 users and numerous departments in the Northwestern University human and animal neuroimaging community across both the Chicago and Evanston campuses. Today, NUNDA contains 232 projects, 10443 subjects, and 15784 imaging sessions, including several multisite projects with national and regional institutions
- 2009 – Faculty preceptor, Training Program in the Neuroscience of Human Cognition, Northwestern University, Ken Paller, Director, National Institute of Neurological Disorders and Stroke (NINDS), predoctoral PhD students and postdoctoral fellows
- 2013 – Faculty preceptor, Mechanisms of Aging and Dementia Training Program, Northwestern University, John Disterhoft, Director, National Institute on Aging (NIA), predoctoral PhD students and postdoctoral fellows
- 2014 – Primary mentor, "Brain Gut" Focus Area, T32 Training Grant in Gastrointestinal Physiology and Psychology, Northwestern University Feinberg School of Medicine, Keefer, Pandolfino, Directors, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), predoctoral PhD students and postdoctoral fellows
- 2015 – Faculty Mentor, Behavioral and Psychosocial Research Training Program in Cancer Prevention and Control, Spring, Penedo, Directors, MPH, MS students and postdoctoral fellows

Community Service

- 2009 Panelist, "Staying Sharp: Current Advances in Brain Research," Organized by the Dana Alliance for Brain Initiatives

TEACHING

Harvard University

Teaching Assistant, graduate course in Robotics, fall, 1991

Washington University in St. Louis

Lecturer, undergraduate course in Signals and Systems, spring, 1998

National Science Foundation Young Scholar Program, summer 1997, Mary Beth Nebel

Psychiatry Resident Seminar, 2005, 2007

Mentor, Graduate Student Lab Rotation, 2003, 2006

Senior Honors Thesis, 2002, Irena E. Glick
 Senior Honors Thesis, 2003, N. Reagan Splinter
 Mentor, Bio500 (senior), 2004, 2007
 Mentor, Bio200 (sophomore), 2006
 Mentor, Philosophy Neuroscience and Psychology, 1999 – 2003, 2005 – 2008
 Mentor, Radiology Summer Fellow, 2002 – 2004

Northwestern University

Classroom Teaching

BME 512, Biomedical Engineering Graduate Seminar Class, 2008
 Geriatric Psychiatry Research Seminar, 2010, 2011
 Research Methods I: Statistics, Winter Quarter 2010, Division of Clinical Psychology,
 Department of Psychiatry and Behavioral Sciences
 Principals of Neuroimaging, Summer Quarter 2013 – Present, Division of Clinical Psychology,
 Department of Psychiatry and Behavioral Sciences
 Mental Health Law Guest Lecture, 2014 – Present, Northwestern University School of Law

Research Mentorship

Visiting Scholar

Shun-Chin Wu, Predoctoral Fellow, National Defense Medical Center, Taiwan, 2017 – 2018

Postgraduate

Milap Nowrangi, MD, Psychiatry Resident Research Elective, 2009 – 2010
 Beth LaBardi, MD, Geriatric Psychiatry Fellow Research, 2013 – 2014
 Derin Cobia, PhD, Postdoctoral/T32 Fellow, 2008 – 2011
 Katherine Blizinsky, PhD, Postdoctoral Fellow, 2014
 Anna Varentsova, PhD, Postdoctoral Fellow, 2015 – 2016
 Lisanne Jenkins, PhD, Postdoctoral Fellow, 2016 – Present

PhD Thesis

Clinical Psychology PhD Student, Year 2, Alexandra Apple
 Clinical Psychology PhD Student, Year 5, Julie Peterson
 Katherine Blizinsky, PhD, Northwestern University Integrated Neuroscience Program (NUIN),
 Northwestern University (Co-Advisor: Peter Penzes, PhD) (2014)
 Matthew Schroeder, PhD, NUIN, Northwestern University (Co-Advisor: John Disterhoft, PhD)
 (2015)
 Neha Mehta, PhD, NUIN, Northwestern University (Co-Advisor: Eva Redei, PhD) (2015)
 Adam Christensen, PhD, Clinical Psychology (2016)
 C. Paula Lewis-de los Angeles, Medical Scientist Training Program (2017)

PhD Thesis Committee, Northwestern University

Molly Hermiller, NUIN, Northwestern University
 Kristen Warren, NUIN, Northwestern University
 Mo Satyshur, Clinical Psychology, Northwestern University
 Alyse Bedell, Clinical Psychology, Northwestern University
 Eva Elden, Clinical Psychology, Northwestern University
 Hande Ozergin, NUIN, Northwestern University
 Kathryn Gigler, Psychology, Northwestern University
 Julia Rao, PhD, Clinical Psychology, Northwestern University (2013)
 Nicholas Bowman, PhD, NUIN, Northwestern University (2014)

PhD Thesis Committee, other institutions

Behrang Makouei, MS, Simon Frasier University (2008)
 Shahab Ansari, MS, Simon Frasier University (2010)
 Ali Khan, PhD, Simon Frasier University (2011)
 Evgeniy Lebed, PhD, Simon Frasier University (2013)
 Pradeep Reddy Ramana, Simon Frasier University (2015)

MS Thesis Committee, Northwestern University

Eva Alden, MS, Clinical Psychology, Department of Psychiatry and Behavioral Sciences,
 Northwestern University Feinberg School of Medicine (2014)
 Alyse R. Bedell, MS, Clinical Psychology, Department of Psychiatry and Behavioral Sciences,
 Northwestern University Feinberg School of Medicine (2016)

MS Thesis Committee, other institutions

Eli Gibson, MS, Simon Frasier University (2010)
 Esther Murillo, MS, Ludwig-Maximilians-University (2014)

Graduate/Medical Students

Graduate Student Lab Rotation, NUIN, MSTP, 2009 – Present
 NUFSM Medical Student Summer Research Program, 2010, Ilya Karagodin
 NUFSM Medical Student Area of Scholarly Concentration Research Program, 2014 – 2017,
 Veronika Hanko
 NUFSM Medical Student Area of Scholarly Concentration Research Program, 2015 – 2018, Ivy
 Huang

Undergraduate Students

Northwestern University Summer Research Opportunity Program, 2013, Elissabeth Martin
 Northwestern University Bioscientist Program, Summer 2013, Ashley Walters
 Northwestern University Undergraduate Independent Studies, 2013 – 2015, Marta Turowski
 California State University Bakersfield, Summer Research Internship, 2013, Patricia Acosta
 Northwestern University Summer Undergraduate Research, 2014, Suhong Jin
 Northwestern University Weinberg College of Arts and Sciences Summer Research, 2017,
 Samantha Yang
 Northwestern University Undergraduate Research Assistant Program, 2017, Marcin Jaskolski

High School Students

Illinois Math & Science Academy Student Inquiry and Research Program, 2009 – Present, >20
 students

RESEARCH GRANTS/CONTRACTS

(Listing direct cost for total project period.)

Active

1 R01 AG055121-01A1 NIA (PI-Contact, MPI: Rosen)	9/15/17 – 6/30/21	\$1,947,756
PREDICT-ADFTD: Multimodal Imaging Prediction of AD/FTD and Differential Diagnosis		
1 U01 MH097435-01A1 NIMH (PI-Contact, MPI: Potkin, Ambite, Turner)		
SchizConnect: Large-Scale Schizophrenia Neuroimaging Data Mediation & Federation		
	3/19/13 – 1/31/18 (NCE)	\$1,868,037

1 R01 NR014182-01 NINR (PI) 9/26/12 – 6/30/18 (NCE) \$1,538,188
HippoPCI Hippocampal Predictors of Cognitive Impairment in Breast Cancer Patients

IDP Foundation Research Innovation Challenge Award (PI-Contact, MPI: Penedo, Cella)
Robert H. Lurie Comprehensive Cancer Center, Northwestern University
A Systems-based Understanding and Remediation of Cancer and Cancer-Related Cognitive Impairment
(ASURE). 08/01/17 – 07/31/18 \$50,000

1 R01 EB020062-01A1 NIBIB (MPI, PI: Miller [contact], Paulsen, Mostfosky, Wang)
Neurodegenerative and Neurodevelopmental Subcortical Shape Diffeomorphometry Software
9/1/15 – 8/31/19 \$1,999,997

BCS 1734853 NSF (MPI, PI: Pestilli [contact], Garyfallidis, Henschel, Wang, Dinov)
NCS-FO: Connectome mapping algorithms with application to community services for big data
neuroscience 9/1/17 – 8/31/20 \$650,000

SP0037646 (IIS 1636893) NSF (MPI, PI: Pestilli [contact], Wang, Saykin, Sporns)
BD Spokes: SPOKE: MIDWEST: Collaborative: Advanced Computational Neuroscience Network
(ACNN) 9/1/16 – 8/31/19 \$332,869

1 R01 MH104030-01A1 NIMH (site PI, MPI: Black [contact], Schlaggar) 7/1/17 – 6/30/22 \$1,844,048
The New Tics Study: A Novel Approach to Pathophysiology and Cause of TIC Disorder

James D. McDonnell Foundation (site PI, MPI: Swanson [contact], Canoll, Gatenby, Egan)
The ENDURES Study: Environmental Dynamics Underlying Responsive Extreme Survivors of
Glioblastoma 9/01/14 – 8/31/17 \$1,850,584

1 P50 DC012283-01A1 NIDCD (co-I, PI: Thompson) 4/1/13 – 3/31/18 \$10,388,912
Neurobiology of Language Recovery in Aphasia: Natural History and Treatment-Induced Recovery

1 R01 HL122328 NHLBI/NICHHD (co-I, PI: Miller) 11/1/14 – 8/31/19 \$2,117,452
Childhood Origins of CHD Disparities: Neural & Immune Pathways

1 R01 MH106512 NIMH (co-I, PI: Voss) 09/01/15 – 05/31/20 \$2,100,742
Noninvasive Manipulation of Hippocampal-Cortical Brain Networks and Memory

1 T32 DK101363-01 NIDDK (primary mentor, PIs: Keefer, Pandolfino) 7/1/14 – 6/30/19 \$1,193,491
Training Grant in Gastrointestinal Physiology and Psychology, “Brain Gut” Focus Area—primary mentor

1 F31 CA210719-01 NCI (sponsor, PI: Apple) 3/1/16 – 2/29/18 \$75,322
Predoctoral NRSA: The Role of the Hippocampal-Prefrontal Network in Cancer-Related Cognitive
Impairment; A Multimodal Cross Sectional Study

1 F30 HD090842-01 NICHD (sponsor, PI: De Los Angeles) 3/26/17 – 3/25/19 \$75,991
MD/PhD NRSA: Cortical Thickness, Subcortical Deformation, and Structural Covariance Networks in
Youth With Perinatally-Acquired HIV: Associations with HIV Disease Severity and Cognition

Completed

1 R01 MH097216 NIMH (co-I, PI: Penzes) 2/20/12 – 1/31/17 \$2,204,704

Molecular Mechanisms of Abnormal Dendritic Spine Plasticity in Schizophrenia

1 R01 MH084803 NIMH (PI) Schizophrenia Data and Software Tool Federation using Biomedical Informatics Research Network (BIRN) Infrastructure	7/1/09 – 6/30/13 (NCE)	\$737,803
BRF SG 2010-12, Brain Research Foundation (PI) Development of a Calcium-Sensitive MRI Probe for Neural Activity	5/3/10 – 7/31/11 (NCE)	\$40,000
CNADC Pilot (PI) Northwestern University Feinberg School of Medicine 2P30AG013854-16 NIA (Mesulam) Predicting FTLN & AD Neuropathology in PPA Using Hippocampal Shape: A Pilot Study	7/1/11 – 10/31/12 (NCE)	\$234,823
Ken and Ruth Davee Award for Innovative Investigations in Affective Disorders (PI-Contact, MPI: Redei) Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine Neuroimaging Pilot Study Using an Animal Model of Major Depression	9/1/12 – 8/31/13	\$25,000
Alzheimer's Association (MPI: Weiner [contact], Mueller, Yushkevich, van Leemput, Wang) ADNI 2 add on project: Hippocampal Subfield Volumetry	7/1/12 – 6/30/15	\$454,545
Australian NHMRC (Site PI, PI: Wen) Early Detection of Mild Cognitive Impairment and Dementia Using Multidimensional Analysis of Structural MRI by Computational Methods	11/1/07 – 12/31/11 (NCE)	\$677,791
Alzheimer Society of Canada (Collaborator, PI: Beg) Discrimination between Alzheimer's and Frontotemporal Dementia using Novel Anatomical Features from Brain MR Scans	8/1/11 – 7/31/13	\$75,400
MJFF Parkinson's Biomarkers (co-I, PI: Simuni, Gitelman) High Resolution diffusion tensor MRI imaging as a biomarker of Parkinson Disease diagnosis and disease progression	12/1/09 – 7/24/12	\$377,476
Northwestern Memorial Hospital (co-I, PI: Csernansky) Northwestern University Neuroimaging Data Archive	9/1/09 – 8/31/11	\$350,000
Pacific Alzheimer Research Foundation (Site PI, PI: Beg) Improving Sensitivity of Early Detection of AD via Multidimensional Analysis of Longitudinal MR Scans	4/1/07 – 9/30/09	\$240,000
R01 MH56584-09 NIMH (co-I, PI: Csernansky) Neuromorphometry in Schizophrenia by Computer Algorithm	8/31/07 – 12/31/12 (NCE)	\$4,344,349
R01 AG25824 NIA (co-I, PI: Csernansky) Stress, Glucocorticoids and Alzheimer Disease	9/1/05 – 8/31/10	\$1,105,278
P01 AG26276 NIA (co-I, PI: Morris; Project 4 PI: Csernansky) Antecedent Biomarkers for AD – Project 4: Neuroanatomical Biomarkers of Early AD	10/1/05 – 8/31/10	\$1,189,373

TSA GB 64527, Tourette Syndrome Association (PI) 4/1/04 – 8/31/05 \$75,000
 Morphological Abnormalities of the Thalamus and Basal Ganglia in Tourette Syndrome by
 Computational Anatomy

SCHOLARLY BIBLIOGRAPHY

a. Original, peer-reviewed research articles

(Scopus/Google Scholar *h*-index 31/37)

Thesis and reports

1. **Wang L**, Clark JJ. *Recursive Estimation of Shape from Active Shadowing*. Cambridge, MA: Harvard Robotics Lab, Harvard University; 1994. 94-6.
2. **Wang L**. *Three Dimensional Structure from Active Shadowing* [Ph.D. Dissertation]. Cambridge, MA: Division of Applied Sciences, Harvard University; 1995.

Peer-reviewed full conference papers

1. **Wang L**, Clark JJ. Shape from Active Shadow Motion. Paper presented at: SPIE Conference on Intelligent Robots and Computer Vision: Active Vision and 3D Methods; Sept. 9, 1993; Boston, MA.
2. **Wang L**, Clark JJ. Active Shape and Depth Extraction from Shadow Images. Paper presented at: the First IEEE International Conference on Image Processing; Nov. 13-16, 1994; Austin, TX.
3. Joshi SC, Banerjee A, Christensen GE, Csernansky JG, Haller JW, Miller MI, **Wang L**. Gaussian Random Fields on Sub-Manifolds for Characterizing Brain Surfaces. Paper presented at: Information Processing in Medical Imaging, IPMI-1997; June 9-13, 1997; Vermont, USA.
4. **Wang L**, Clark JJ. Trajectories for Optimal Temporal Integration in Active Vision Systems. Paper presented at: IEEE International Conference on Robotics and Automation; April 20-25, 1997; Albuquerque, NM.
5. **Wang L**, Miller MI. Construction of Statistical Templates for Cross-Modality Mapping. Paper presented at: the First Aachen Conference on Neuropsychology in Neurosurgery, Psychiatry and Neurology; December 12-14, 1997; Aachen, Germany.

Peer-reviewed journal papers

1. Csernansky JG, Haller JW, Banerjee A, **Wang L**, Joshi SC, Christensen GE, Gado M, Vannier MW, Miller MI. A Comparison of the Hippocampus in Schizophrenia and Control Subjects using Automated Methods for Neuromorphometry. *Schizophrenia Research*. 1997;24(141).
2. Csernansky JG, Joshi S, **Wang L**, Haller JW, Gado M, Miller JP, Grenander U, Miller MI. Hippocampal morphometry in schizophrenia by high dimensional brain mapping. *Proc Natl Acad Sci U S A*. 1998;95(19):11406-11411.
3. Csernansky JG, **Wang L**, Joshi SC, Gado M, Morris JG, Miller MI. Hippocampal Deformities Detected in Schizophrenia and Alzheimer's Disease by High Dimensional Brain Mapping. *European Neuropsychopharmacology*. 1999;9(Suppl 5):S268.
4. Joshi M, Cui J, Doolittle K, Joshi S, Van Essen D, **Wang L**, Miller MI. Brain segmentation and the generation of cortical surfaces. *Neuroimage*. 1999;9(5):461-476.
5. Csernansky JG, **Wang L**, Joshi S, Miller JP, Gado M, Kido D, McKeel D, Morris JC, Miller MI. Early DAT is distinguished from aging by high-dimensional mapping of the hippocampus. Dementia of the Alzheimer type. *Neurology*. 2000;55(11):1636-1643.
6. Csernansky JG, **Wang L**, Joshi SC, Gado M, Morris JG, Miller MI. A Computerized Brain Mapping Method for Detailed Analyses of Neuroanatomical Shapes and Volumes. *International Journal of Psychopharmacology*. 2000;3(Suppl 1):S379.

7. Hogan RE, Mark KE, Choudhuri I, **Wang L**, Joshi S, Miller MI, Bucholz RD. Magnetic resonance imaging deformation-based segmentation of the hippocampus in patients with mesial temporal sclerosis and temporal lobe epilepsy. *J Digit Imaging*. 2000;13(2 Suppl 1):217-218.
8. Hogan RE, Mark KE, **Wang L**, Joshi S, Miller MI, Bucholz RD. Mesial temporal sclerosis and temporal lobe epilepsy: MR imaging deformation-based segmentation of the hippocampus in five patients. *Radiology*. 2000;216(1):291-297.
9. Clark JJ, **Wang L**. Trajectories for Optimal Temporal Integration in Active Vision Systems. *International Journal of Computer Vision*. 2001;43(3):141-166.
10. **Wang L**, Joshi SC, Miller MI, Csernansky JG. Quantifying Hippocampal Asymmetry in Schizophrenia. *Schizophrenia Research*. 2001;49(Supl 1-2):170.
11. **Wang L**, Joshi SC, Miller MI, Csernansky JG. Statistical analysis of hippocampal asymmetry in schizophrenia. *Neuroimage*. 2001;14(3):531-545.
12. Csernansky JG, **Wang L**, Jones D, Rastogi-Cruz D, Posener JA, Heydebrand G, Miller JP, Miller MI. Hippocampal deformities in schizophrenia characterized by high dimensional brain mapping. *Am J Psychiatry*. 2002;159(12):2000-2006.
13. Schindler MK, **Wang L**, Selemon LD, Goldman-Rakic PS, Rakic P, Csernansky JG. Abnormalities of thalamic volume and shape detected in fetally irradiated rhesus monkeys with high dimensional brain mapping. *Biol Psychiatry*. 2002;51(10):827-837.
14. Miller MI, Hosakere M, Barker AR, Priebe CE, Lee N, Ratnanather JT, **Wang L**, Gado M, Morris JC, Csernansky JG. Labeled cortical mantle distance maps of the cingulate quantify differences between dementia of the Alzheimer type and healthy aging. *Proc Natl Acad Sci U S A*. 2003;100(25):15172-15177.
15. Posener JA, **Wang L**, Price JL, Gado MH, Province MA, Miller MI, Babb CM, Csernansky JG. High-dimensional mapping of the hippocampus in depression. *Am J Psychiatry*. 2003;160(1):83-89.
16. Tepest R, **Wang L**, Miller MI, Falkai P, Csernansky JG. Hippocampal deformities in the unaffected siblings of schizophrenia subjects. *Biol Psychiatry*. 2003;54(11):1234-1240.
17. **Wang L**, Swank JS, Glick IE, Gado MH, Miller MI, Morris JC, Csernansky JG. Changes in hippocampal volume and shape across time distinguish dementia of the Alzheimer type from healthy aging. *Neuroimage*. 2003;20(2):667-682.
18. Yushkevich P, Joshi S, Pizer SM, Csernansky JG, **Wang L**. Feature selection for shape-based classification of biological objects. *Inf Process Med Imaging*. 2003;18:114-125.
19. Csernansky JG, Hamstra J, **Wang L**, McKeel D, Price JL, Gado M, Morris JC. Correlations Between Antemortem Hippocampal Volume and Postmortem Neuropathology in AD Subjects. *Alzheimer Dis Assoc Disord*. 2004;18(4):190-195.
20. Csernansky JG, Schindler MK, Splinter NR, **Wang L**, Gado M, Selemon LD, Rastogi-Cruz D, Posener JA, Thompson PA, Miller MI. Abnormalities of thalamic volume and shape in schizophrenia. *Am J Psychiatry*. 2004;161(5):896-902.
21. Csernansky JG, **Wang L**, Joshi SC, Ratnanather JT, Miller MI. Computational anatomy and neuropsychiatric disease: probabilistic assessment of variation and statistical inference of group difference, hemispheric asymmetry, and time-dependent change. *Neuroimage*. 2004;23 Suppl 1:S56-68.
22. Hogan RE, **Wang L**, Bertrand ME, Willmore LJ, Bucholz RD, Nassif AS, Csernansky JG. MRI-based high-dimensional hippocampal mapping in mesial temporal lobe epilepsy. *Brain*. 2004;127(Pt 8):1731-1740.
23. Ratnanather JT, **Wang L**, Nebel MB, Hosakere M, Han X, Csernansky JG, Miller MI. Validation of semiautomated methods for quantifying cingulate cortical metrics in schizophrenia. *Psychiatry Res*. 2004;132(1):53-68.
24. Csernansky JG, **Wang L**, Miller JP, Galvin JE, Morris JC. Neuroanatomical predictors of response to donepezil therapy in patients with dementia. *Arch Neurol*. 2005;62(11):1718-1722.

25. Csernansky JG, **Wang L**, Swank J, Miller JP, Gado M, McKeel D, Miller MI, Morris JC. Preclinical detection of Alzheimer's disease: hippocampal shape and volume predict dementia onset in the elderly. *Neuroimage*. 2005;25(3):783-792.
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- Yassa MA, Zeineh MM, for the Hippocampal Subfields G. Quantitative comparison of 21 protocols for labeling hippocampal subfields and parahippocampal subregions in in vivo MRI: Towards a harmonized segmentation protocol. *Neuroimage*. 2015.
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 119. **Wang L**, Alpert KI, Calhoun VD, Cobia DJ, Keator DB, King MD, Kogan A, Landis D, Tallis M, Turner MD, Potkin SG, Turner JA, Ambite JL. SchizConnect: Mediating neuroimaging databases on schizophrenia and related disorders for large-scale integration. *Neuroimage*. 2016;124(Pt B):1155-1167.
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b. Invited publications (e.g., reviews, book chapters, etc)

1. **Wang L**, Clark JJ: Shape from Active Shadow Motion, SPIE Conference on Intelligent Robots and Computer Vision: Active Vision and 3D Methods. Boston, MA, 1993, pp 2-13.
2. **Wang L**, Miller MI: Construction of Statistical Templates for Cross-Modality Mapping, First Aachen Conference on Neuropsychology in Neurosurgery, Psychiatry and Neurology. Aachen, Germany, 1997.
3. Csernansky JG, **Wang L**, Joshi SC, Ratnanather JT, Miller MI: Computational Anatomy and Neuropsychiatric Disease: Probabilistic Assessment of Variation and Statistical Inference of Group Difference, Hemispheric Asymmetry, and Time-Dependent Change. *NeuroImage*, Special Issue on "Mathematics in Brain Imaging", Thompson PM, Miller MI, Poldrack R, Nichols TN (eds) *Neuroimage* 23 Suppl 1:S56-68, 2004.
4. **Wang L**, Csernansky JG: Recent Advances in Neuroimaging Biomarkers of Schizophrenia, Janicak P, Marder S, Tandon R, Goldman M (eds), *Schizophrenia: Recent Advances in Diagnosis and Treatment*, DOI 10.1007/978-1-4939-0656-7_6, Springer Science+Business Media New York 2014.
5. **Wang L**, Yushkevich P, Ourselin S. Guest editorial. *Neurobiol Aging.* 2015;36 Suppl 1:S1-2.

PRESENTATIONS (past five years only)

a. Conference presentations

1. Cobia D, Schroeder M, Blizinsky K, Csernansky JG, **Wang L**. Multimodal imaging reveals compensatory neural mechanisms in the maintenance of neuropsychological performance in schizophrenia. Paper presented at: The International Neuropsychological Society, 2012; Montreal.
2. Khan AR, **Wang L**, Beg MF. Multi-structure LDDMM brain registration: applications in confidence-based morphometry. Paper presented at: Human Brain Mapping; June, 2012; Beijing.
3. Li T, Wan J, Zhang Z, Yan J, Kim S, Risacher S, Fang S, Beg MF, **Wang L**, Saykin AJ, Shen L. Hippocampus as a predictor of cognitive performance: Comparative evaluation of analytical methods and morphometric measures. *MICCAI 2012 Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders*. Nice, France; 2012.
4. Ming J, Beg MF, **Wang L**. Integrated Cortical Structural Marker for Alzheimer's Disease. *MICCAI 2012 Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders*. Nice, France; 2012.
5. Raamana PR, **Wang L**, Beg MF. Evidence of Possible Matter Shift in Human Brain due to Neurodegeneration. Paper presented at: Human Brain Mapping; June, 2012; Beijing.

6. Rao J, **Wang L**, Weintraub S, Mesulam MM, Rogalski E. Hippocampal Volume in SuperAging: A Preliminary Report. Paper presented at: The International Neuropsychological Society, 2012; Montreal.
7. **Wang L**, Cobia D, Reilly J, Csernansky J, Breiter H. Subtyping Schizophrenia Subjects Using Working Memory and Approach Motivation Neuromaging Markers. Paper presented at: Human Brain Mapping; June, 2012; Beijing.
8. Wentz J, **Wang L**, M. Faisal Ben, Wen W, Perminder Sachdev, Trollor J, Ratnanather T. Cortical Thickness of the Cingulate Gyrus in Memory & Ageing Study. *Human Brain Mapping*. Beijing; 2012.
9. Williams K, Mehta N, Redei EE, **Wang L**, Procissi D. Resting State Functional MRI In a Rat Model of Major Depressive Disorder *Annual Meeting of the Society for Neuroscience*. New Orleans; 2012.
10. Blizinsky M, Alpert K, Cobia D, Csernansky JG, **Wang L**. Subtyping schizophrenia through patterns of cortical thinning. *International Congress on Schizophrenia Research*. Orlando; 2013.
11. Christensen A, Alpert K, Rogalski E, Cobia D, Weintraub S, Mesulam M-M, **Wang L**. Hippocampal Deformity in Non-Semantic Primary Progressive Aphasia. Paper presented at: Alzheimer Association International Conference; July, 2013; Boston.
12. Cobia D, Smith M, Csernansky J, Gado M, Ng C, **Wang L**. Progressive thalamocortical network pathology in schizophrenia. *International Congress on Schizophrenia Research*. Orlando; 2013.
13. Herting MM, Uban KA, Fair D, Yogeve R, Williams P, Malee K, Csernansky J, **Wang L**, Huo Y, Sowell ER. The association of current and historical HIV disease severity with functional brain connectivity in adolescents with perinatally acquired HIV infection. *Annual Meeting of the Society for Neuroscience*. San Diego; 2013.
14. Lebed E, Jacova C, **Wang L**, Beg MF. Cortical Folding Analysis with Local Gyrfication Index. Paper presented at: Human Brain Mapping; June, 2013; Seattle.
15. Mehta N, Chen H, **Wang L**, Redei E. Behavioral and transcriptomic sex differences, despite identical genetics, in a rat model of depression. *International Behavioural and Neural Genetics Society*. Leuven, Belgium; 2013.
16. Mueller S, Yushkevich P, **Wang L**, van Leemput K, Mezher A, Das S, Iglesias J, Weiner M. Collaboration for a Systematic Comparison of Different Techniques to Measure Subfield Volumes: Announcement and First Results. Paper presented at: Alzheimer Association International Conference; July, 2013; Boston.
17. Raamana PR, **Wang L**, Beg MF, Alzheimer's Disease Neuroimaging Initiative. Thickness NETwork (ThickNet) Features for the Detection of Prodromal AD. *MICCAI 4th International Workshop on Machine Learning in Medical Imaging*. Nagoya, Japan; 2013.
18. Raamana PR, Wen W, Kochan NA, Brodaty H, Sachdev P, **Wang L**, Beg MF. The sub-classification of amnesic MCI using MRI-based cortical thickness measures. Paper presented at: Alzheimer Association International Conference; July, 2013; Boston.
19. Turner J, Hibar D, Rasmussen J, Andreassen O, Haukvik U, Agartz I, Potkin SG, Ophoff R, Pol HH, Haren Nv, Gruber O, Krämer B, Ehrlich S, Hass J, Alpert K, **Wang L**, Pearlson GD, Glahn D, Thompson P, Erp TGv. A Prospective Meta-Analysis of Brain Measures in Schizophrenia via the ENIGMA Consortium. *International Congress on Schizophrenia Research*. Orlando; 2013.
20. Turner J, Hibar D, Rasmussen J, Andreassen O, Haukvik UK, Agartz I, Potkin S, Ophoff R, Pol HH, Haren Nv, Gruber O, Krämer B, Ehrlich S, Hass J, Alpert K, Jönsson E, **Wang L**, Pearlson G, Glahn D, Thompson P, Erp Tv. A Prospective Meta-Analysis of Subcortical Brain Volumes in Schizophrenia via the ENIGMA Consortium. Paper presented at: Human Brain Mapping; June, 2013; Seattle.
21. van Erp TGM, Hibar DP, Rasmussen J, Andreassen OA, Haukvik UK, Agartz I, Potkin SG, Hulshoff-Pol H, Ophoff R, van Haren NEM, Gruber O, Krämer B, Erlich S, Hass J, **Wang L**, Alpert K, Thompson PM, Turner JA, ENIGMA-Schizophrenia Working Group. A Large-Scale Meta-Analysis of Subcortical Brain Volume Abnormalities in Schizophrenia via the ENIGMA Consortium. *Annual Meeting of the Society of Biological Psychiatry*. San Francisco, CA; 2013.

22. **Wang L**, Alpert K, Tosun D, Wu M, Beg MF, Weiner MW, Alzheimer's Disease Neuroimaging Initiative. Relationship Between Cortical Thinning And Cortical FDG Hypometabolism In Individuals with Progressive MCI and AD. Paper presented at: Alzheimer Association International Conference; July, 2013; Boston.
23. **Wang L**, Schroeder M, Ryals AJ, Voss JL, Gitelman D, Sweet JJ, Butt Z, Wagner LI. Reduced Activation of the Working Memory Network in Cognitively Impaired Chemotherapy Patients. Paper presented at: Human Brain Mapping; June, 2013; Seattle.
24. Cobia D, Makris N, Lee MJ, Kim B, Lee S, **Wang L**, Blood A, Breiter H. Genetics-based Brain Mapping Of Family With Benign Hereditary Chorea And Substance Abuse. Annual Meeting of the Society of Biological Psychiatry. New York, NY; 2014.
25. Song X, Wang X, Alpert K, Chen Y, Huang L, **Wang L**, Parrish T. Rapid automatic comprehensive quality assurance metrics evaluation for neuroimaging Studies. Paper presented at: Human Brain Mapping; June, 2014; Hamburg, Germany.
26. van Erp TGM, Hibar DP, Rasmussen J, Andreassen OA, Haukvik UK, Agartz I, Potkin SG, Hulshoff-Pol H, Ophoff R, Haren NEMv, Gruber O, Krämer B, Erlich S, Hass J, **Wang L**, Alpert K, Pearlson GD, Glahn D, M., Thompson P, Turner JA. Subcortical and cortical variations in schizophrenia: the ENIGMA SZ Working Group. Paper presented at: Human Brain Mapping; June, 2014; Hamburg, Germany.
27. Raamana PR, **Wang L**, Beg MF. Dissimilarity based Extraction of Covariance LInked NETwork (DECLINE) features for Early Detection of AD. Paper presented at: Alzheimer Association International Conference; July, 2014; Copenhagen, Denmark.
28. **Wang L**, Alpert KI, Calhoun V, Keator D, King M, Kogan A, Landis D, Tallis M, Potkin SG, Turner JA, Ambite JL. SchizConnect: Large-Scale Schizophrenia Neuroimaging Data Integration and Sharing. *Annual Meeting of the American College of Neuropsychopharmacology (ACNP)*. Phoenix, AZ; 2014.
29. Apple AC, Ryals AJ, Voss JL, **Wang L**. Hippocampal deformation in Breast Cancer Patients with Self Reported Cognitive Concerns. *The 43rd Annual Meeting of the International Neuropsychological Society*. Denver, CO; 2015.
30. de los Angeles CP, Swanson K, **Wang L**. Preliminary Analysis of Contralesional Hippocampal Volume as a Predictor for Survival in a subset of Glioblastoma Multiforme Patients. *Annual Meeting of the Cognitive Neuroscience Society*. Chicago, IL; 2015.
31. **Wang L**, Alpert KI, Calhoun V, Keator D, King M, Kogan A, Landis D, Tallis M, Potkin SG, Turner JA, Ambite JL. SchizConnect: A One-Stop Web-Based Resource for Large-Scale Schizophrenia Neuroimaging Data Integration. *International Congress on Schizophrenia Research*. Colorado Springs, CO; 2015.
32. van Erp TGM, Hibar DP, Rasmussen JM, Glahn DC, Pearlson GD, Andreassen OA, Agartz I, Westlye LT, Haukvik UK, Dale AM, Melle I, Cecilie, Hartberg B, Gruber O, Kraemer B, Zilles D, Donohoe G, Kelly S, McDonald C, Morris DW, Cannon DM, Corvin A, Machielsen MWJ, Koenders L, Haan Ld, Veltman DJ, Satterthwaite TD, Wolf DH, Gur RC, Gur RE, Potkin SG, Mathalon DH, Mueller BA, Preda A, Macciardi F, Ehrlich S, Walton E, Hass J, Calhoun VD, Bockholt HJ, Sponheim SR, Shoemaker JM, Haren NEMv, Pol HEH, Ophoff RA, Kahn RS, Roiz-Santiañez R, Crespo-Facorro B, **Wang L**, Alpert KI, Jönsson EG, Dimitrova R, Bois C, Whalley HC, McIntosh AM, Lawrie SM, Hashimoto R, Thompson PM, Turner J, ENIGMA – Schizophrenia Working Group. ENIGMA Schizophrenia Working Group Brain Volume Comparison between 2,028 Cases and 2,540 Controls. *Human Brain Mapping*. Honolulu, HI; 2015.
33. Ming J, Stebbins G, **Wang L**, Wu M. Integrated Classification of Amnesic Mild Cognitive Impairment Using Functional and Structural MRI. *Human Brain Mapping*. Honolulu, HI; 2015.
34. Gutman B, Ching C, Kelly S, Alpert K, Corvin A, van Erps T, Turner J, Thompson P, **Wang L**. Meta-Analysis of Subcortical Shape Reveals Differences Between Schizophrenia Patients and Controls. *Human Brain Mapping*. Honolulu, HI; 2015.

35. Song X, Wang X, Alpert KA, Huang L, Chen Y, **Wang L**, Parrish T. Rapid automatic quality assurance and relative threshold for multisite neuroimaging. *Human Brain Mapping*. Honolulu, HI; 2015.
36. Song X, Wang X, Alpert KA, **Wang L**, Parrish T. Robust webbased paralleloptimized minimal preprocessing and analysis pipeline for fMRI big data:. *Human Brain Mapping*. Honolulu, HI; 2015.
37. Apple AC, Ryals AJ, Wagner LI, Cella D, Penedo FJ, Voss JL, **Wang L**. Hippocampal Subfield Deformity in Breast Cancer Patients with Self-Reported Cognitive Concerns. *Annual Meeting of the Society for Neuroscience*. Chicago, IL; 2015.
38. de los Angeles CP, Jacobs J, Rademaker AW, Raizer JJ, Swanson K, **Wang L**. Cortical thickness in the contralesional hemisphere are related to survival length and tumor diffusivity in long-term survivors of glioblastoma multiforme *Annual Meeting of the Society for Neuroscience*. Chicago, IL; 2015.
39. **Wang L**, Russell T, Waters EA, Procissi D, Dong H, Sadleir KR, Kukreja L, Csernansky JG, Mesulam MM, Vassar RJ, Geula C. MRI of mouse model of TDP-43 shows widespread volume loss at 10 weeks of age. *Annual Meeting of the Society for Neuroscience*. Chicago, IL; 2015.
40. de los Angeles CP, Williams PL, Huo Y, Malee K, Csernansky JG, Yogev R, Dyke RBV, Sowell ER, **Wang L**, Pediatric HIV/AIDS Cohort Study (PHACS). Long-term effects on the basal ganglia in youth with perinatally-acquired HIV infection. The annual Conference on Retroviruses and Opportunistic Infections (CROI). Boston, MA; 2016.
41. Williams PL, Huo Y, de los Angeles CP, Wang SD, Uban K, Herting MM, Malee K, Nichols S, Dyke RBV, **Wang L**, Sowell ER, Pediatric HIV/AIDS Cohort Study (PHACS). Brain Volumes, HIV Disease Severity, and Substance Use in Perinatally-infected Youth. The annual Conference on Retroviruses and Opportunistic Infections (CROI). Boston, MA; 2016.
42. **Wang L**, Alpert KI, Calhoun V, Keator D, King M, Kogan A, Landis D, Potkin SG, Turner JA, Ambite JL. SchizConnect: Flexible, Dynamic Platform for Mediating Multiple Schizophrenia Neuroimaging Databases. *Human Brain Mapping*. Geneva, Switzerland; 2016.
43. de Zwarte SMC, Brouwer RM, Hillegers MHJ, Cahn W, Pol HEH, **Wang L**, Alpert KI, Alda M, Hajek T, Mitchell PB, Roberts G, Schofield PR, Fullerton J, Soares JC, Mwangi BI, Murray RM, McDonald C, Gruber O, Richter A, Turner JA, Glahn DC, van Erp TGM, Jahanshad N, Hibar DP, Thompson PM, Kahn RS, van Haren NEM. Brain volumes in first-degree family members of schizophrenia or bipolar patients: an ENIGMA meta-analysis. *Human Brain Mapping*. Geneva, Switzerland; 2016.
44. Hanco V, Alpert KI, Schneider JA, Arfanakis K, Bennett DA, **Wang L**. Ante-mortem structural MRI markers for post-mortem pathology for TDP-43 and AD in the hippocampus. Alzheimer Association International Conference. Toronto, Canada; 2016.
45. Wisse LEM, Daugherty AM, Amaral RSC, Berron D, Carr VA, Ekstrom A, Kanel P, Kerchner GA, Mueller SG, Pluta JB, Stark CE, T.Steve, **Wang L**, Yassa MA, Yushkevich PA, Joie RL, The Hippocampal Subfields Group. A harmonized protocol for medial temporal lobe subfield segmentation: initial results of the 3 tesla protocol for the hippocampal body. Paper presented at: Alzheimer Association International Conference; July, 2016; Toronto, Canada.
46. Popuri K, Lu D, Dowds E, Alpert KI, **Wang L**, Beg MF. LDDMM-Based Robust Multi-Template Subcortical Segmentation Using an ADNI Template Library. Paper presented at: Alzheimer Association International Conference; July, 2016; Toronto, Canada.
47. Mueller SG, Yushkevich PA, **Wang L**, Leemput Kv, Alpert KI, Paz K, Das S, Iglesias E, Weiner MW. Systematic Comparison of Different Techniques to Measure Hippocampal Subfield Volumes in ADNI2. Paper presented at: Alzheimer Association International Conference; July, 2016; Toronto, Canada.
48. Popuri K, Bhalla M, Buller A, Towfighi S, Sengdy P, Jacova C, **Wang L**, Hsiung G-YR, Mackinze IR, Beg MF, editors. Regional FDG uptake changes in presymptomatic FTD patients with GRN and C9ORF72 mutations. The 10th International Conference on Frontotemporal Dementias; 2016 August 31 - September 2; Munich.

49. **Wang L**, Hanco V, Alpert KI, Schneider JA, Arfanakis K, Bennett DA, editors. Can Neuroimaging Measures of Hippocampal Structure Predict Alzheimer's vs. FTLN Neuropathologies? The 10th International Conference on Frontotemporal Dementias; 2016 August 31 - September 2; Munich.
50. Angeles CPL-dl, Alpert KI, Williams PL, Malee K, Huo Y, Csernansky JG, Yogev R, Dyke RBV, Sowell ER, **Wang L**, NIH Pediatric HIV/AIDS Cohort Study (PHACS). Hippocampal morphometry is related to substance use in youth with perinatally-acquired HIV infection. Human Brain Mapping. Vancouver, Canada; 2017.
51. Apple AC, Schroeder M, Ryals AJ, Wagner LI, Cella D, Penedo FJ, Voss JL, **Wang L**. Compensation in hippocampal connectivity in breast cancer patients with cognitive concerns. Human Brain Mapping. Vancouver, Canada; 2017.
52. Apple AC, Schroeder M, Ryals AJ, Wagner LI, Cella D, Penedo FJ, Voss JL, **Wang L**. Elevated hippocampal functional connectivity related to memory in breast cancer survivors with self-reported cognitive concerns. The 45th Annual Meeting of the International Neuropsychological Society. New Orleans; 2017.
53. Chen J, Calhoun VD, Lin D, Perrone-Bizzozero NI, Bustillo JR, Pearlson GD, Potkin SG, Erp TGMv, Ehrlich S, **Wang L**, Clementz BA, Keshavan MS, Gershon E, Sweeney JA, Tamminga CA, Andreassen O, Agartz I, Westlye LT, Turner JA, Liu J. Shared Genetic Risk of Schizophrenia and Gray Matter Reduction in 6p22.1. Paper presented at: International Congress on Schizophrenia Research, 2017; San Diego.
54. Cobia D, Perry C, Gale S, Hedges D, Smith MJ, Csernansky JG, **Wang L**. Toxoplasma gondii affects posterior association cortex and related functions in healthy, but not schizophrenia, subjects. Paper presented at: International Congress on Schizophrenia Research, 2017; San Diego.
55. Cobia D, Smith MJ, Csernansky JG, **Wang L**. Hippocampal shape features relate to limbic integrity and episodic memory function in neuropsychologically near-normal schizophrenia. The 45th Annual Meeting of the International Neuropsychological Society. New Orleans; 2017.
56. Gutman BA, van Erp T, Alpert K, Isaev D, Zavaliangos-Petropulu A, Calhoun V, Glahn D, Satterthwaite T, Andreasen OA, Borgwardt S, Howells F, Voineskos A, Radua J, Potkin S, Facorro BC, Shen L, Lebedeva I, Spalletta G, Donohoe G, Kochunov P, Doan NT, Agartz I, Harrisberger F, Stein DJ, Dickie EW, Canales-Rodriguez EJ, Huang AJ, Roiz-Santiañez R, Cong S, Tomyshev A, Piras F, Thompson PM, Turner J, **Wang L**, ENIGMA Schizophrenia Working Group. Shape Alterations and Asymmetry in Deep Gray Matter Structures Associated with Schizophrenia and Antipsychotics: an N=6500 Meta-analysis. Annual Meeting of the Society of Biological Psychiatry. San Diego, CA; 2017.
57. Ma D, Lu D, Popuri K, Balachander R, Alpert K, **Wang L**, Beg MF. Zscape – An Intuitive Data Visualisation for Predicting AD progression. Human Brain Mapping. Vancouver, Canada; 2017.
58. Zwarte Sd, Brouwer R, Hillegers M, Cahn W, Pol HH, Kahn R, Alpert K, **Wang L**, Bramon E, Kane F, Murray R, Hajek T, Alda M, Roberts G, Mitchell P, Schofield P, Fullerton J, Richter A, Gruber O, Bonvino A, Bertolino A, Giorgio AD, Caseras X, Fears S, Bearden C, Glahn D, van Erp T, Thompson P, Andreassen O, Turner J, van Haren N, ENIGMA-Relatives Group. ENIGMA-Relatives – Brain Volumes in First-Degree Relatives of Schizophrenia and Bipolar Patients. Human Brain Mapping. Vancouver, Canada; 2017.

b. Invited Talks

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| 4/4/2012 | “Hippocampal Shape as Neuroimaging Marker of Alzheimer Disease,” Department of Neurological Sciences, Rush Medical College (host: Leyla deToledo-Morrell, MD) |
| 10/5/2012 | “Integrated Cortical Structural Marker for Alzheimer’s Disease,” MICCAI 2012 Workshop on Novel Imaging Biomarkers for Alzheimer's Disease and Related Disorders, Nice, France |
| 6/21/2013 | “Hippocampal subfield surface zone maps on T1 scans,” Hippocampal Subfield Segmentation Summit (HS3), University of California, Davis |

- 9/30/2013 “Relationship between Cortical Thinning and Cortical FDG Hypometabolism in Individuals with Progressive MCI and AD,” International Conference on Psychology, Autism and Alzheimer's Disease, San Antonio, TX
- 3/20/2014 “Multimodal Neuroimaging Markers for Neuropsychiatric Disorders,” Workshop on Integrating Modalities and Scales in Life Science Imaging, Mathematical Biosciences Institute, The Ohio State University, Columbus, OH
- 9/16/2014 “SchizConnect: Large-Scale Schizophrenia Neuroimaging Data Integration and Sharing,” National Institute of Mental Health, Bethesda, MD
- 12/2/2014 “Large-Scale Schizophrenia Neuroimaging Data Sharing: Big Data, Data Mediation & SchizConnect,” Center for Neuroimaging, Indiana University (host: Andrew Saykin, PhD)
- 12/7/2014 “SchizConnect: Large-Scale Schizophrenia Neuroimaging Data Integration and Sharing,” Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Hot Topic Session, Phoenix, AZ
- 3/6/2015 “Connecting Treatment Response to Each Patient’s Brain through Computational Anatomy and Changes in Cognition and Function” Society for Brain Mapping & Therapeutics, Workshop on Mathematical Modeling in Brain Mapping & Therapeutics, Los Angeles, CA
- 3/30/2015 “SchizConnect: A One-Stop Web-Based Resource for Large-Scale Schizophrenia Neuroimaging Data Integration,” International Congress on Schizophrenia Research. Colorado Springs, CO
- 10/21/2015 “MRI of mouse model of TDP-43 shows widespread volume loss at 10 weeks of age.” Annual Meeting of the Society for Neuroscience. Chicago, IL
- 10/28/2015 “Long-term effects of perinatally-acquired HIV on the subcortical shape of the adolescent brain,” Pediatric HIV/AIDS Cohort Study (PHACS) 2015 Fall Network Meeting, Bethesda, MD
- 3/24/2016 “Can Structural Neuroimaging Predict Specific Neuropathologies in Dementia?” Biomedical Research Imaging Center, University of North Carolina at Chapel Hill School of Medicine (host: Dinggang Shen, PhD)
- 6/2/2016 “Ante-Mortem MRI Markers for TDP-43 and AD in the Hippocampus.” 7th Annual Rush Alzheimer’s Disease Center ROSMAP Investigator’s Meeting, Rush University Medical Center, Chicago, IL
- 8/29/2016 “Can Structural Neuroimaging Predict Specific Neuropathologies in Dementia? A Work in Progress?” Klinik für Psychiatrie und Psychotherapie, Universitätsklinikum Köln, Cologne, Germany (host: Ralf Tepest, PhD)
- 9/20/2016 “SchizConnect: Flexible, Dynamic Platform for Mediating Multiple Schizophrenia Neuroimaging Databases.” Midwest Workshop on Big Neuroscience Data, Tools, Protocols & Services, Ann Arbor, MI
- 11/3/2016 “Computational Tools for Atlas-Based Structural MRI Segmentation and Statistical Analysis of Structural Shape with Application in Neuroplasticity.” American Congress of Rehabilitation Medicine Annual Conference, Progress in Rehabilitation Research, Neuroplasticity Symposia Session on the Neuroimaging Toolbox – Understanding the Different Methods to Study Neuroplasticity, Chicago, IL
- 9/8/2016 “SchizConnect work-in-progress: data mediation, BIDSification, and pipelines for neuroimaging research in schizophrenia.” Big Data Neuroscience Workshop, Bloomington, IN
- 9/26/2017 “Long-term effects of perinatally-acquired HIV on the adolescent brain: findings from the PHACS pilot neuroimaging study,” Pediatric HIV/AIDS Cohort Study (PHACS) 2017 Fall Network Meeting, Bethesda, MD

- 4/14/2010 “Hippocampal Shape as Neuroimaging Marker of Alzheimer Disease,” Grand Rounds, Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine (host: Sandra Weintraub, PhD)
- 1/2011 “From Hippocampal Neuroanatomical Biomarker to Complex Phenotype,” Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine
- 2/24/2011 “Does Shape Matter? Imaging the Hippocampus in Dementia,” Cognitive Neurology and Alzheimer’s Disease Center, Northwestern University Feinberg School of Medicine
- 9/2011 “Neuroimaging Research in Psychiatry: Assessing Brain Structure & Function,” Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine
- 2/15/2011 “Neuroimaging Structure, Function, & Behavior,” Brain Tumor Institute, Northwestern University Feinberg School of Medicine
- 2/29/2012 “NU Neuroimaging Data Archive NUNDA,” Cognitive Brain Mapping Group, Northwestern University
- 4/5/2013 “Cognitive Impairment in Breast Cancer Patients Receiving Adjuvant Therapy,” Asher Center for the Study and Treatment of Depressive Disorders, Northwestern University
- 4/25/2013 “NU Neuroimaging Data Archive NUNDA,” Department of Radiology, Northwestern University
- 5/9/2013 “Assessing Brain Networks in Neurodevelopment,” Hartwell Foundation
- 6/10/2013 “Cognitive Impairment in Breast Cancer Patients Receiving Adjuvant Therapy,” Supportive Oncology, Robert H. Lurie Comprehensive Cancer Center
- 2/3/2014 “HippoPCI: Hippocampal Predictors of Cognitive Impairment in Breast Cancer Patients,” Cancer Control & Survivorship, Robert H. Lurie Comprehensive Cancer Center
- 4/22/2014 “Multimodal Neuroimaging Markers for Neuropsychiatric Disorders,” Northwestern Computational Research Day, Northwestern University
- 5/9/2014 “Multimodal Neuroimaging Markers for Neuropsychiatric Disorders.” A.C. Nielsen Basal Ganglia Research Day: On the Path to Translation, Northwestern University Feinberg School of Medicine
- 10/15/2014 “SchizConnect: A One-Stop Web-Based Resource for Large-Scale Schizophrenia Neuroimaging Data Integration.” Cognitive Brain Mapping Group, Northwestern University
- 10/19/2016 “Structure, Activity, Connectivity & Cognition.” Asher Center for the Study and Treatment of Depressive Disorders, Northwestern University Feinberg School of Medicine
- 2/8/2017 “Hippocampal dysfunction in cancer-treatment related cognitive impairment: Findings from the Lynn Sage pilot project.” Cognitive Brain Mapping Group, Northwestern University