

CURRICULUM VITAE

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PART I: GENERAL INFORMATION

Name

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Education

1973	A.B. Wellesley College
1976	M.S. Tufts University
1981	A.M. Harvard University
1984	Ph.D. Harvard University

Post-Doctoral Training

Fellowship

1984-1986	National Institute of Mental Health (NIMH) –National Research Service Award (T32) Postdoctoral Clinical Research Training Fellow in Biological Psychiatry in the Laboratory of Neurophysiology and in the Cognitive Neuroscience Laboratory, Harvard Medical School (HMS), Department of Psychiatry at the Massachusetts Mental Health Center (MMHC), Boston, MA.
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Licensure and Certification

1987-	Licensed Psychologist, Massachusetts Board of Registration of Psychologists (#4297)
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Faculty Academic Appointments

1984-1986	Research Fellow in Biological Psychiatry, in the Laboratory of Neurophysiology, Department of Psychiatry, HMS, MMHC, Boston, MA
1984-1985	Visiting Lecturer in Psychology, Brandeis University, Waltham, MA
1986-1989	Instructor in Psychology, Department of Psychiatry, HMS, MMHC, Boston, MA
1989-1993	Assistant Professor of Psychology, Department of Psychiatry, HMS, MMHC, Boston, MA
1993-2000	Associate Professor of Psychology, Consolidated Department of Psychiatry, HMS, Boston, MA
2000-2005	Professor of Psychology, Department of Psychiatry, VA Brockton, HMS, Brockton, MA
2003-	Professor of Radiology, Department of Radiology, Brigham and Women's Hospital, HMS, Boston, MA
2005-	Professor of Psychology, Department of Psychiatry, Brigham and Women's Hospital, HMS, Boston, MA

Hospital Affiliated Institutional Appointments

VA Appointments

1985-1995	Research Health Scientist (WOC), Department of Psychiatry, HMS, at the VA Medical Center Brockton, Brockton, MA
1995-1995	Health Statistician, Department of Psychiatry, HMS, at the VA Medical Center Brockton, Brockton, MA
1995-1998	Research Health Scientist (WOC), Department of Psychiatry, HMS, at the VA Medical Center Brockton, Brockton, MA
1998-2005	Lead Psychologist, Department of Psychiatry, HMS, at the VA Boston Healthcare System, Brockton Division, Brockton, MA
2005-	Health Scientist, VA Boston Healthcare System, Brockton Division, Brockton, MA

Laboratory Appointments within the VA as Part of the Department of Psychiatry, Brockton, and HMS

1986-2005	Director, Clinical Evaluation Section, Neuroscience Laboratory, Department of Psychiatry, HMS, at the VA Medical Center Brockton, Brockton, MA
1986-2005	Clinical Research Advisor for Post-Doctoral Research Fellows in the Department of Psychiatry, HMS, at the VA Medical Center Brockton, Brockton, MA
1987-2005	Director, MRI Section Laboratory of Neuroscience, Department of Psychiatry, HMS at the Brockton VA Medical Center, Brockton, MA
1990-2005	Clinical Research Advisor for Visiting Scholars in the Department of Psychiatry, HMS, at the VA Medical Center Brockton (then VA Boston Healthcare System, Brockton Division), Brockton, MA
1992-2005	Co-Director, Cognitive Neuroscience Laboratory, Department of Psychiatry, HMS, at the VA Boston Healthcare System, Brockton Division, Brockton MA
1995-2000	Scientific Co-Director, VA Center for Basic and Clinical Neuroscience Studies of Schizophrenia, Department of Psychiatry, HMS, VA Medical Center Brockton, Brockton, MA

Other Hospital or Affiliated Institutional Appointments

1979-1984	Research Fellow in Psychopathology, Psychology Laboratory, Mailman Research Center, McLean Hospital, HMS, Belmont, MA
1984-1986	Research Fellow in Biological Psychiatry, in the Laboratory of Neurophysiology, HMS, Department of Psychiatry, MMHC, Boston, MA
1988-2007	Research Associate, Department of Radiology, Surgical Planning Laboratory, Brigham and Women's Hospital, HMS, Boston, MA
1989-2000	Research Associate in Psychology, Laboratories of Psychiatric Research, McLean Hospital, HMS, Department of Psychiatry, Belmont, MA
2005-2007	Research Associate, Department of Psychiatry, Brigham and Women's Hospital, HMS, Boston, MA
2007-	Senior Scientist, Brigham and Women's Hospital
2008-	Senior Scientist, Judge Baker Children's Center
2016-	Research Staff, Massachusetts General Hospital

Hospital and Healthcare Organization Service and Other Major Administrative Responsibilities

Veterans Affairs Boston Healthcare System (Jamaica Plain, Brockton, and West Roxbury)

1993-1994	Coordinator, Neuroscience Seminar Series, Residency Training Program in Psychiatry, Veterans Affairs Medical Center, HMS, Brockton, MA
1998-2000	VA Boston Healthcare System Human Studies Subcommittee, Member

2000-2001	VA Boston Healthcare System Institutional Review Board (IRB), Member
2001-2002	VA Boston Healthcare System, Selection Committee for ACOS R&D, Member
2001-2004	VA Boston Healthcare System, Research and Development Committee, Member
2002-2003	VA Boston Healthcare System, Research and Development Committee, Co-Chair
2002-2004	VA Boston Healthcare System, Steering Committee, R&D Committee, Member
2003-2004	VA Boston Healthcare System, Research and Development Committee, Chair
2003-2004	VA Boston Healthcare System, Selection Committee for ACOS R&D, Member
2004-2005	VA Boston Healthcare System, Research and Development Executive Committee, Member
2007-2012	Director, Resident Pathways Training in Research, Harvard South Shore Psychiatry Residency Training Program, HMS, VA Boston Healthcare System, Brockton, MA
2008-2009	Co-Coordinator Research Methods Course-PGYII Harvard South Shore Residency Training Program, VA Boston Healthcare System, Brockton, MA
2008-2010	Steering Committee, Harvard South Shore Research Pathway Training Program for Residents in Psychiatry, VA Boston Healthcare System, Brockton, MA, Co-Chair
2010-2012	Steering Committee, Harvard South Shore Research Pathway Training Program for Residents in Psychiatry, VA Boston Healthcare System, Brockton, MA, Chair

Harvard University

1981-1983	Member of the Board of Tutors and Advisors, Department of Psychology (Faculty of Arts and Sciences), Harvard University, Cambridge, MA
1981-1983	Resident Tutor, Dudley House, Harvard College, Cambridge, MA
1981-1983	Premedical Advisor for Psychology Majors, Harvard College, Cambridge, MA
1984-2000	Undergraduate Thesis Advisor, Harvard University, Cambridge, MA
2000-	Member of the Board of Honors Tutors, Department of Psychology (Faculty of Arts and Sciences), Harvard University, Cambridge, MA
2012-2016	Harvard Graduate Women in Science and Engineering (HGWISE), Mentoring Program, Sponsored by the Office of Faculty Development and Diversity, the Graduate School of Arts and Sciences, and Harvard Integrated Life Sciences, Mentor
2015-2016	Neuroimaging Collaborative Working Group, The Football Players Health Study at Harvard University, Member

Harvard Medical School

1991-2003	Mysell Committee, Department of Psychiatry, HMS, Member
1993-1994	Acting Co-Director, Biological Psychiatry, Clinical Research Training Program, Department of Psychiatry, HMS, Boston, MA
1993-	Preceptor, Biological Psychiatry, Clinical Research Training Program, Department of Psychiatry, HMS, Boston, MA
1994-1995	Mysell Committee, Department of Psychiatry, HMS, Chairperson
1994-1996	Career Development Committee, Department of Psychiatry, HMS, Member
1995-1996	Career Development Committee, Department of Psychiatry, HMS, Co-Chair
1995-2005	Promotions and Appointments Committee, Department of Psychiatry at the VA Boston Healthcare System, Brockton Division, HMS, Member
1995-2005	Promotions and Appointments Committee, Department of Psychiatry at the VA Boston Healthcare System, Brockton Division, HMS, Member
1996-2008	Associate Director, Clinical Research Training Program, Department of Psychiatry, HMS, Boston, MA
2000	PET Research Oversight Committee, HMS, Member
2000-2005	Joint Committee on the Status of Women, HMS and Harvard School of Dental Medicine, Member
2000-2009	Standing Committee on Faculty Fellowships in the Faculty of Medicine, HMS, Member
2001-2013	Psychiatry Research Committee, Department of Psychiatry, HMS, Member

2001-2002	Mysell Committee, Department of Psychiatry, Harvard Medical School, Co-Chair
2002-2005	Selection Committee, 50 th Anniversary Program for Scholars in Medicine, HMS, Member
2003-2004	Ad Hoc Evaluation Committee for Professor, HMS, Chair
2003-2006	Subcommittee of Professors, HMS, Member
2004-2005	Psychiatry Research Committee, Department of Psychiatry, HMS, Chair
2005-2009	Selection Committee, Eleanor and Miles Shore 50 th Anniversary Fellowship Program for Scholars in Medicine, HMS, Member
2006-2006	Ad Hoc Evaluation Committee for Professor, HMS, Chair
2007-2007	Ad Hoc Evaluation Committee for Professor, HMS, Member
2007-2008	Ad Hoc Search Committee for Chair of Radiology, Beth Israel Deaconess Hospital, Member
2008-2009	Ad Hoc Evaluation Committee for Professor, HMS, Member
2008-2010	Co-Director, Clinical Research Training Program, Department of Psychiatry, HMS
2010	Harvard Catalyst Pilot Grants, Reviewer
2010-2011	Ad Hoc Evaluation Committee for Professor, HMS, Chair
2010-2011	Ad Hoc Search Committee for Chair of Neurosurgery, Children's Hospital, HMS, Member
2012	HMS-Portugal Program in Collaborative Clinical and Translational Research Grants, Review Committee, Member
2014	HMS-Portugal Program in Collaborative Clinical and Translational Research Grants, Review Committee, Member
2014-2018	Council of Mentors, Harvard Medical School, Member
2018-2019	Ad Hoc Search Committee for Chair of Psychiatry, VA Boston Healthcare System, Brockton Division, Member
2019-2020	Ad Hoc Evaluation Committee for Professor, HMS, Member

Harvard School of Public Health

2014	Ad Hoc Committee for Professorial Appointments at Harvard School of Public Health
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Brigham and Women's Hospital, Boston, MA

1993-1995	Brain Research Committee, Department of Radiology, Brigham & Women's Hospital, Member
1995-	Director, Psychiatry and Behavioral Sciences Imaging, Surgical Planning Laboratory, MRI Division, Department of Radiology, Brigham & Women's Hospital, HMS, Boston, MA
2005-	Founding Director, Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Radiology, Brigham and Women's Hospital
2005-2007	Council of Biomedical Informatics and Functional and Molecular Imaging, Department of Radiology, Brigham and Women's Hospital, HMS, Member
2005-2008	fMRI Steering Committee, Department of Radiology, Brigham and Women's Hospital, Member
2005-2009	Research Committee, Department of Psychiatry, Brigham and Women's Hospital, Member
2005-2009	Steering Committee, Biomedical Research Institute, Neuroscience Comprehensive Research Center (NCRC), Brigham and Women's Hospital, Member
2006-2007	Neuroscience Research Center Working Group, Biomedical Research Institute
2007	Neuroscience Imaging Service Line Council, Department of Radiology, Brigham and Women's Hospital, Member
2007-	BRI Bridge Funding Review Committee, Member
2007-2010	Neuroscience Work Group, Neuroscience Initiative for Biomedical Research Institute, Member
2009	Research Excellence Awards, Brigham and Women's Hospital, Reviewer

2011	Radiology Imaging Core Oversight Committee, and Radiology Core User Committee, BWH Imaging Core and Brigham MRI Research Center (BMRC), Member
2016-2017	BWH, BRI Bridge Funding Review Committee, Chair

Longwood Medical Area, Boston, MA

2006-2006	Harvard Longwood Psychiatry Residency Training Program Task Force, Member
2006-2010	Harvard Longwood Psychiatry Residency Training Program Advisory Committee, Member
2006-2017	Commonwealth Research Center, Beth Israel-Deaconess-Massachusetts Mental Health Center, Scientific Advisory Board, Member

Major Committee Assignments

International, National and Regional

1994-1996	NIMH Special Review Committee (SRC), Ad Hoc Reviewer
1994-1996	NIMH Behavioral Science Track Award for Rapid Transition (B/START), Ad Hoc Reviewer
1996-1998	NIH Clinical Neuroscience & Biological Psychopathology Review Committee, Member
1997	NIH Special Emphasis Panel Review, Member
1998	Local Committee, XII th Event-Related Potentials International Congress (EPIC XII), Member
1998	NIH Special Emphasis Panel Review, Member
1998-2000	NIH Brain Disorders & Clinical Neuroscience Study Section (BDCN-6), Member
1999-2002	Lilly Fellowship Award Committee, <i>Society of Biological Psychiatry</i> , Member
2000	NIMH Special Emphasis Panel Review, Chair of Teleconferencing IRG
2000-2006	Reviewer, The Wellcome Trust
2001	Lilly Fellowship Award Committee, <i>Society of Biological Psychiatry</i> , Co-Chair
2001-2004	Reviewer, March of Dimes, Birth Defects Foundation
2001-2003	NIH Brain Disorders & Clinical Neuroscience Study Section (BDCN-6), Member
2002	Lilly Fellowship Award Committee, <i>Society of Biological Psychiatry</i> , Chair
2002	National Institute of Mental Health Workshop Planning Meeting: First Episode Schizophrenia, Member
2002	NIMH Special Emphasis Panel Review, BDCN-2, Teleconferencing IRG, Member
2002	Department of Veterans Affairs, Washington, DC, Neuroimaging Study Section, Member
2002	Department of Veterans Affairs, Washington, DC, REAP Midterm Review Committee, Member
2002	NIMH Board of Scientific Counselors Review, Ad Hoc Reviewer
2003-2005	Education and Training Committee, <i>American College of Neuropsychopharmacology</i> , Member
2003-2006	NIH Neural Basis of Psychopathology, Addictions and Sleep Disorders Study Section (NPAS), Member
2004	Reviewer, Sheffield Hospitals Charitable Trust for Medical Research, The University of Sheffield
2004-2006	Ethics Committee, <i>American College of Neuropsychopharmacology</i> , Member
2005-2006	International Advisory Board Member, <i>Schizophrenia International Research Society</i> Program Committee, <i>International Congress on Schizophrenia Research</i> , Member
2006-2006	Ad Hoc Reviewer for NIH Study Section (ZRG1 BDCN-A 90 S), Molecular Mechanisms, Genetics, and Animal Models of Neuropsychiatric Disorders
2006-2006	Ad Hoc Reviewer for NIH Study Section Neural Basis of Psychopathology, Addictions and Sleep Disorders (NPAS)
2007	Reviewer for the Neuroscience and Mental Health Board, <i>Medical Research Council</i> , London, UK
2007	Scientific Advisory Board for <i>Human Brain Mapping</i> , Member

2007	Scientific Review NIH (Z MH 1 ERB-S), Silvio Conti Centers, Member
2007	VA Biomedical Laboratory Research and Development and Clinical Science and Research and Development (BLRD/CSRD), Career Development Review Panel, Member
2007	Scientific Review NIH (MH BDCN-Member Conflict Committee), Member
2007	Work Group of Scientists to Review Needs for a Special Emphasis Panel on Neurotechnology, National Institutes of Health, Center for Scientific Review, Member
2007	Scientific Review NIH (Z MH1 ERB-C(01), CIDAR Review, Member
2007-2008	University of Minho, Braga, Portugal, Post-Doctoral Fellowship Committee, Member, Government of Portugal
2008	Reviewer for the Research Competitiveness Program for the <i>American Association for the Advancement of Science</i>
2008	Scientific Review for NIH EUREKA (Exceptional, Unconventional Research Enabling Knowledge Acceleration) ZNS1 SRB-P(44), Member
2008	Reviewer for the <i>Wellcome Trust</i>
2008	Ad Hoc Reviewer for ZMH1 CNF-Z01 S (Conferences to Advance Mental Health Research)
2009-2010	Advocacy Committee, <i>American College of Neuropsychopharmacology</i> , Member
2009-2011	Ethics Committee, <i>American College of Neuropsychopharmacology</i> , Member
2009	<i>Israel Science Foundation</i> , Grant Reviewer
2009	Scientific Review NIH (MH ZRG1 BDCN-T(58)R, "Challenge Grants", Member
2009	Program Committee, <i>Society for International Research on Schizophrenia</i> , Member
2009	Scientific Review NIH (ZMH1 ERB-C 01 S), National Research Service Award Institutional Training Grants, Member
2010	Scientific Review NIH (ZNS1 SRB-B-21) Study Section, EUREKA (Exceptional, Unconventional Research Enabling Knowledge Acceleration) Study section, Member
2010	NIH National Science Foundation and Graduate Research Fellowship Program (GRFP), Member
2010	Program Committee, <i>Society for International Research on Schizophrenia</i> , Member
2010	Reviewer for the <i>US-Israel Binational Science Foundation</i>
2010	Scientific Review NIH T32 Institutional Research Training Grant (NIH ZMH1 ERB-S-01), Member
2010	Reviewer for Academy for Interdivisional Innovative Research Incentive Scheme, WOTR Science for Global Development, <i>the Netherlands Organization for Scientific Research</i>
2010-2012	Membership Committee, <i>Society for International Research on Schizophrenia</i> , Member
2010-2012	Awards Committee, <i>Society for International Research on Schizophrenia</i> , Member
2011	Scientific Review NIH (ZNS SRB-B) Study Section, EUREKA (Exceptional, Unconventional Research Enabling Knowledge Acceleration) Study Section, Member
2011	<i>Health Research Board</i> , Reviewer, Dublin, Ireland
2011	Examiner, Ph.D. dissertation, Melbourne University, Melbourne, Australia
2011	Mentor, <i>International Congress of Schizophrenia Research</i>
2011	Special Emphasis Panel for Conflict Members: Autism, Schizophrenia, and Addiction, NIH Study Section ZRG1 BDCN-C(02)M, Member
2011	Scientific Review NIH T32 Institutional Research Training Grant (NIH ZMH1 ERB-S-01), Member
2011	<i>Swiss National Science Foundation</i> , Reviewer for Fellowships
2011-	Advisory Board, Center for Research in Psychology, School of Psychology, University of Minho, Braga, Portugal, Member
2011	<i>French National Research Agency</i> , Reviewer for grant submissions
2011	<i>World Congress of Psychiatry</i> , Section on Neuroimaging, Member
2012	Ad-hoc Reviewer: NIMH K99/R00 Special Emphasis Panel
2012	<i>The Swiss National Science Foundation</i> , Reviewer
2012-2014	Program Committee, <i>Society for International Research in Schizophrenia</i> , Member
2012-2014	Awards Committee, <i>American Neuropsychiatric Association</i>
2012-2014	Internal Advisory Council, <i>Schizophrenia International Research Society</i>

2013	Organizer with Dr. Brett Clements for setting up a reception for NIMH Sponsored Young Investigators for the <i>International Congress of Schizophrenia</i> , for all young investigators dating back to 1987
2013	Reviewer, grants for the <i>Israel Science Foundation</i> .
2013	Program Committee, <i>Society for International Research on Schizophrenia (SIRS)</i> , Member
2013	Program Committee, Young Investigator and Career Awards for the <i>American Neuropsychiatric Association</i> , Member
2013	VA Rehabilitation Research and Development Service, <i>VA Small Projects in Rehabilitation Research (SPiRE) Award</i> , Reviewer
2013	VA Rehabilitation Research and Development Service, <i>VA Small Projects in Rehabilitation Research (SPiRE) Award</i> , Reviewer
2013	NINDS Special Emphasis Panel to review cooperative agreement applications submitted in response to the RFA "International Traumatic Brain Injury Research Initiative: NIH Cooperative Program for Comparative Effectiveness of Clinical Tools and Therapies", Member
2013	National Institute of Neurological Disorders and Stroke (NINDS) Special Emphasis Panel [08 XnSI SRB-E(56)], Member
2013	Brain Trauma-Related Neurodegeneration Workshop, National Institute of Neurological Disorders and Stroke (NINDS), Invited Member
2013	"Developing Standards for Diffusion Tensor Imaging (mDTI): A Meeting of Experts," sponsored by the <i>Institute of Medicine's Forum on Neuroscience and Nervous System Disorders, Health Arm of the Institute of Medicine of the National Academy of Science</i> , Invited Member (August 22, 2013)
2013	NIH Study Section BDCN-N(58)R Pilot Projects on Sports-Related Brain and Spinal Cord Injury, Member
2013-2019	NIH, Clinical Neuroscience and Neurodegeneration Study Section (CNN), Member
2014	Special Emphasis Panel/Scientific Review Group 05 ZDA1 ML-F, Member
2014	National Institute of Drug Abuse (NIDA), R03 1/Start 10 ZA/1 ABC, Member
2014	<i>The Swiss National Science Foundation</i> , Reviewer
2014	<i>The South African Medical Research Council</i> , Reviewer
2014	<i>Presiding Committee of the Austrian Academy of Sciences</i> , Reviewer
2014	Mentor Program, Mentor, <i>American College of Neuropsychopharmacology</i>
2014-	Chronic Effects of Neurotrauma Consortium (CENC): Neuroimaging Leadership Work Group Meeting, Member
2015	Organizer with Dr. Brett Clements for setting up a reception for NIMH Sponsored Young Investigators for the <i>International Congress of Schizophrenia</i> , for all young investigators dating back to 1987
2015	<i>Israel Science Foundation</i> , Grant Reviewer
2015	Center for Scientific Review, National Institute of Health, Special Emphasis Panel ZRG1 BDCN-W (04), Member
2015	Reviewer for the <i>Medical Research Council</i> , UK
2015	Reviewer for the <i>Netherlands Organization for Scientific Research (NWO)</i>
2015	Reviewer for the <i>Traumatic Brain Injury Endpoints Development (TED) Seed Projects</i>
2015-2018	Advisory Group, <i>American College of Radiology (ACR)</i> , <i>Head Injury Institute</i>
2015-2018	Membership Committee, <i>American College of Neuropsychopharmacology</i> , Member
2017	Program Committee Connectomics in NeuroImaging, Member, Quebec Canada [MICCAI workshop]
2018-2020	<i>Society for International Research on Schizophrenia (SIRS)</i> , Program Committee
2018-2020	<i>Society for International Research on Schizophrenia (SIRS)</i> , Awards Committee
2018	<i>The Swiss National Science Foundation</i> , Reviewer
2018	Organizing Committee Member, <i>Medical Imaging & Case Reports (MICR 2018)</i>
2019	Japanese Agency for Medical Research and Development (AMED); AMED-Crest – Early Life Stages Applications, Reviewer

2019-	<i>Society for International Research on Schizophrenia (SIRS), SIRS Research Award Committee, Member</i>
2019-2019	NIH, Special Emphasis Panel/Scientific Review Group ZRG1 Clinical Neuroscience and Neurodegeneration Study Section (CNN-W-07), Member
2019-2019	ORD Special Emphasis Panel (SEP), Office of Research and Development, Psychiatry Career Development Awards, Scientific Peer Review, Department of Veterans Affairs, CSR&D, Member
2020-2022	<i>Society of Biological Psychiatry, Program Planning Committee, Member</i>
2020-2022	<i>American College of Neuropsychopharmacology, Membership Committee, Member</i>
2020	NIH, Special Emphasis Panel/Scientific Review Group 05 ZRG1 BDCN-N (55) R, Member.

Professional Societies

1978-1984	Student Member <i>American Association for the Advancement of Science</i>
1978-1984	Student Member <i>the American Psychological Association</i>
1985-	<i>American Psychological Association, Member</i>
1985-	<i>Massachusetts Psychological Association, Member</i>
1989-2000	<i>Society for Research in Psychopathology, Member</i>
1991-1995	<i>American Psychopathological Association, Member</i>
1993-	<i>Society of Biological Psychiatry, Member</i>
1994-	<i>American Psychological Society, Member</i>
1999-	<i>International Society for Neuroimaging in Psychiatry, Member</i>
2002-2007	<i>American College of Neuropsychopharmacology, Member</i>
2005-	<i>Schizophrenia International Research Society, Member</i>
2007-	<i>American College of Neuropsychopharmacology, Fellow</i>
2010-	<i>International College of Neuropsychopharmacology (CINP), Fellow</i>
2012-	<i>American Neuropsychiatric Association, Member</i>
2013-	<i>International Brain Injury Association (IBIA), Member</i>
2017-	<i>American Association for the Advancement of Science, Member</i>
2018-	IEPA, Early Intervention in Mental Health, Member

Editorial Boards and Review Service

Editorial Boards

1996-	<i>Psychiatry Research: Neuroimaging (Member)</i>
1997-2004	<i>Schizophrenia Bulletin (Member)</i>
2001-	<i>Schizophrenia Research (Member)</i>
2006-	<i>Brain Imaging and Behavior (Associate Editor, one of founding Editors; Impact = 4.598)</i>
2007-	<i>BMC Psychiatry (Member)</i>
2009-2015	<i>Schizophrenia Bulletin (Member)</i>
2010-2014	<i>The International Journal of Neuropsychopharmacology (Field Editor)</i>
2011	<i>Schizophrenia Research and Treatment (Guest Editor with Drs. Xu, Haroutunian, and Bartzokis for a Special Issue on Oligodendrocytes in Schizophrenia)</i>
2012	<i>Brain Imaging and Behavior (Guest Editor with Drs. Bigler and Tate on a Special Issue on Neuroimaging Contributions to Understanding Mild Traumatic Brain Injury)</i>
2012-2015	<i>World Journal of Psychiatry (Member)</i>
2014-	<i>Journal of Psychology and Clinical Psychiatry (Member)</i>
2015	<i>Schizophrenia Research (Guest Editor with Dr. Kubicki on a Special Issue on White Matter Pathology in Schizophrenia)</i>
2015-2017	<i>Journal of Neuroimaging (Member)</i>
2015-	<i>Journal of Neuroimaging in Psychiatry & Neurology (One of founding members)</i>

2016-2019	<i>World Journal of Psychiatry</i> (Member)
2018-	<i>Computational Psychiatry, Part of Frontiers of Psychiatry</i> (Review Editor)

Ad Hoc Reviewer

<i>Archives of General Psychiatry</i> (now <i>JAMA-Psychiatry</i>)	<i>American Journal of Psychiatry</i>
<i>Brain Imaging and Behavior</i>	<i>Schizophrenia Research</i>
<i>Cerebral Cortex</i>	<i>Schizophrenia Bulletin</i>
<i>Journal of the American Medical Association (JAMA)</i>	<i>Psychiatric Research</i>
<i>The New England Journal of Medicine</i>	<i>Journal of Psychiatric Research</i>
<i>Biological Psychiatry</i>	<i>Brain</i>
<i>Proceedings of the National Academy of Sciences</i>	<i>Development and Psychopathology</i>
<i>Journal of Abnormal Psychology</i>	<i>NeuroImage</i>
<i>Nature Reviews Neuroscience</i>	<i>PlosONE</i>
<i>Journal of Psychophysiology</i>	<i>Psychosomatic Medicine</i>
<i>Neuropsychopharmacology</i>	<i>Neurology India</i>
<i>Neuroreport</i>	<i>Cognitive Brain Research</i>
<i>Biological Psychology</i>	<i>Harvard Review of Psychiatry</i>
<i>Journal of Nervous and Mental Diseases</i>	<i>Neurobiology of Disease</i>
<i>Epilepsia</i>	<i>Psychological Bulletin</i>
<i>Psychiatry Research: Neuroimaging</i>	<i>Behavioral Neuroscience</i>
<i>Journal of Child Psychology and Psychiatry</i>	<i>Neuropsychobiology</i>
<i>Neuroscience Letters</i>	<i>Hippocampus</i>
<i>American Journal of Medical Genetics</i>	<i>European Neuropsychopharmacology</i>
<i>Neuropsychology</i>	<i>Future Neurology</i>
<i>Journal of Neurotrauma</i>	<i>The Cleft Palate-Craniofacial Journal</i>
<i>International Journal of Neuropsychopharmacology</i>	<i>Neuropsychiatric Genetics</i>
<i>Psychological Reports: Perceptual and Motor Skills</i>	<i>PLos Medicine</i>
<i>Journal of International Neuropsychological Society</i>	<i>Genes, Brain, and Behavior</i>
<i>European Archives of Psychiatry and Clinical Neuroscience</i>	<i>Pediatrics</i>
<i>Psychiatry Interpersonal and Biological Processes</i>	<i>Developmental Psychopathology</i>
<i>Neurodegenerative Diseases</i>	<i>Journal of Military Medicine</i>
<i>Journal of Neurodegenerative Diseases</i>	<i>Developmental Neurobiology</i>
<i>Military Medicine</i>	
<i>Progress in Neuro-Psychopharmacology & Biological Psychiatry</i>	

Awards and Honors

1973	<i>Phi Beta Kappa, Eta Chapter, Wellesley College</i>
1973	<i>Durant Scholar (Summa cum laude), Wellesley College</i>
1978-1980	<i>Merit Fellowship, Harvard University</i>
1980-1982	<i>The George & Cecile Naumburg Fellowship for Doctoral Work in the Behavioral Sciences</i>
1982-1983	<i>The Peter B. Livingston Dissertation Research Fellowship</i>
1982-1983	<i>The Harvard-Danforth Award for Excellence in Teaching</i>
1984-1986	<i>NIMH T32 National Research Service Award (NRSA) - Clinical Research Training Fellow in Biological Psychiatry, Massachusetts Mental Health Center, Boston, MA</i>
1988	<i>Invited participant, The James S. McDonnell Foundation Summer Institute in Cognitive Neuroscience, Harvard University</i>
1988-1993	<i>NIMH Research Scientist Development Award (K01)</i>
1989	<i>NIMH Young Investigator Award, International Congress of Schizophrenia Research</i>
1991	<i>William F. Milton Fund Award for Scientific Research, Harvard University</i>

1992	<i>Thomas Temple Hoopes Prize for Excellence in the Work of Undergraduate & Art of Teaching</i> (as Faculty Supervisor shared award with I-han Chou for her <i>Summa cum laude</i> Senior Honor's Thesis submitted to Harvard College)
1992-1995	<i>Theodore and Vada Stanley Foundation Research Award for Research on Serious Mental Diseases</i>
1994-1999	NIMH Independent Scientist Award (K02)
1994-1999	NIMH First Award
1997-2004	<i>Senior Mentor for the Stanley Scholars Program</i> , Stanley Medical Research Institute
1998	<i>Fifth Recipient of the Joseph Zubin Memorial Fund Award for Research in Psychopathology</i> , Department of Psychiatry, NY State Psychiatric Institute, Columbia University, NY, NY (http://www.wpic.pitt.edu/research/biometrics/zubin_awards.htm)
1999	<i>William F. Milton Fund Award for Scientific Research</i> , Harvard University
1999-2004	NIMH Independent Scientist Award (K02)
2004-2009	NIMH Senior Scientist Award (K05)
2008	<i>Ph.D. Honors Lecture in Recognition of Honor and Achievement in the Field of Psychological Science</i> , Universidade do Minho, Braga, Portugal
2008-2009	<i>William Silen Lifetime Achievement Award for Mentoring</i> , Harvard Medical School (http://www.mfdp.med.harvard.edu/awards/mentoring/past.html)
2009-2011	<i>National Alliance for Research in Schizophrenia and Depression (NARSAD) Distinguished Investigator Award</i>
2012	<i>Catedra Professor Carlos Lloyd Braga Honorary Chair</i> , Universidade do Minho, Braga, Portugal (Braga Foundation) (Honorary Chair)
2013	<i>The Stuart T. Hauser, M.D., Ph.D. Mentorship Award</i> , Departments of Psychiatry, Harvard Medical School
2013	<i>Research Investigator Award</i> , Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School
2015	<i>Ph.D. Honors Lecture in Recognition of Honor and Achievement in the Field of Psychological Science</i> , Universidade do Minho, Braga, Portugal

Part II: RESEARCH, TEACHING AND OTHER CONTRIBUTIONS

Report of Research

Major Research Interests.

1. The Relationship Between Cognitive, Structural, and Neurophysiological Measures in Schizophrenia;
2. MRI Studies in Schizophrenia, Including Image Processing Analyses;
3. Evoked Potential Studies in Schizophrenia;
4. Biological Markers and Psychiatric Disorders;
5. Thought Disorder in Schizophrenia;
6. Validity and Reliability of Psychiatric Diagnoses;
7. Premorbid Development and Its Association with Onset and Course of Schizophrenia
8. Schizotypal Personality Disorder;
9. The Relationship Between Cognitive, Structural, and Neurophysiological Measures in First Episode Psychoses;
10. MR Brain Diffusion Tensor Imaging Studies in Schizophrenia and Related Disorders;
11. MRI Studies in Post-Traumatic Stress Disorder;
12. Transcranial Magnetic Stimulation Studies of Motor and Cognitive Functioning in Normal Healthy Controls, Neurosurgery Patients, and Patients Diagnosed with Schizophrenia;
13. Cognitive and Behavioral Correlates of MRI Brain Abnormalities in William's Syndrome;

14. Cognitive, Behavioral, and Genetic Correlates of MRI Brain Abnormalities in Velocardiofacial Syndrome;
15. Directing the Development of Image Processing Tools for MRI and DTI;
16. Application of Diffusion Imaging to Mild Traumatic Brain Injury, including Repetitive Brain Injury, the Latter Sometimes Associated with Chronic Traumatic Encephalopathy;
17. Use of Transcranial Direct Current Stimulation (tDCS) for Treatment of Persistent Post-concussive Symptoms in Mild Traumatic Brain Injury.

Narrative Description of Research (see also: [Interview with Dr. Shenton](#)): Schizophrenia is a major public health problem that affects close to 1% of the general population and has devastating effects on the psychological and financial resources of the patient, family, and larger community. Unfortunately there is still no clear understanding of the pathology although recent research has made it increasingly clear that biological factors likely play a key role. An important early paper that is often cited in the field is Dr. Shenton's 1992 *New England Journal of Medicine* study which showed temporal lobe and temporal lobe limbic system abnormalities, especially pronounced on the left that may be implicated in the pathophysiology of schizophrenia. This early study also described the interconnections among brain regions involved with verbal memory, and formal thought disorder, the latter manifested in odd language and speech. A more recent focus on neural systems and brain connectivity abnormalities in neuropsychiatric disorders is the logical extension from evaluating more local, albeit interconnected brain regions, and work here has led to a greater appreciation of the role of alterations in brain circuits and connections in severe psychosis. The evaluation of neural systems and brain connections is clearly an important direction for research, as it will lead to a better understanding of both normal brain connectivity and alterations in brain connectivity that may help us to understand further schizophrenia as well as other neuropsychiatric disorders.

The broad goal of Dr. Shenton's research program has been to apply new imaging techniques to the study of schizophrenia and related psychoses in order to determine and to localize brain abnormalities, and abnormal brain connections, which likely underlie the symptoms and disordered behavior observed in patients suffering from severe mental illness. Early work by this investigator and her research team focused on trying to define and to localize further brain abnormalities in the temporal lobe in patients with schizophrenia. Newly developed image processing techniques, originally developed for the analysis of multichannel remote sensing data (i.e., satellites), were employed to analyze high spatial resolution magnetic resonance (MR) scans (1.5-mm and 2-mm slices). The application of these image processing techniques to the investigation of schizophrenia has been particularly helpful because these techniques not only exploit more fully information contained in MR scans, but they also offer more precise and accurate measurements, factors important to disorders such as schizophrenia where brain abnormalities are often more subtle, and harder to detect, than for other pathophysiological disorders, and where, consequently, precise and accurate measurements become that much more essential.

Dr. Shenton and her collaborators have used these techniques to make volumetric measurements of: (1) whole brain for gray matter, white matter and cerebral spinal fluid (CSF); (2) temporal lobe (gray and white matter); (3) amygdala-hippocampal complex, (4) parahippocampal gyrus, (5) superior temporal gyrus; (6) cingulate gyrus; (7) parietal lobe; and (8) basal ganglia structures. In addition, an analysis of the gyral pattern in the cortical gray matter surface of the temporal lobes has been completed. Results demonstrate that schizophrenic patients, compared to normal controls, show reductions in volume in temporal lobe limbic system structures (amygdala-hippocampal formation and parahippocampal gyrus), and in superior temporal gyrus. These abnormalities, as noted above, were found to be more pronounced on the left, were correlated with each other, and there was an observed correlation between measures of formal thought disorder and left superior temporal gyrus volume. The latter finding suggested that there was damage to an interconnected neural network that may be important to verbal associations and verbal memory, and which may account for the loose associations so often observed in schizophrenia. This line of research has continued and newer methods are being developed for analyzing the brain, including many automated measures that have replaced the laborious tracing of smaller regions of the brain. Additionally, measures of shape are being applied to brain regions of interest because such measures may be more sensitive than measures of volume alone and they may reflect neurodevelopmental anomalies in the brains of patients diagnosed with schizophrenia. This research has been extended to first onset cases of psychosis as well as to individuals diagnosed with schizotypal personality disorder. The former focus is important, as it will allow investigators to discern whether or not brain abnormalities are evident early in the course of the illness, prior to confounding variables such as a chronic illness and long-term effects of neuroleptics. The latter focus is important, as it will allow investigators to discern similarities and differences in a disorder that is genetically linked to schizophrenia but where psychosis is not observed. Of further note, a focus on the prodromal period affords the opportunity to investigate differences between those who go on to develop psychosis versus

those who do not, so that earlier intervention strategies might be developed. Here, Dr. Shenton and colleagues are investigating the role of neuroinflammation in early psychosis, as well as prior to psychosis, in order to determine whether or not neuroinflammation is an important precursor to developing psychosis. Such findings would likely lead to a different strategy for treatment, and, ultimately, to prevention of psychosis in those who are at risk.

Measures here include a method developed by Dr. Ofer Pasternak for separating measures of diffusion into those that are extracellular and those that are surrounding or within tissue. This technique was developed and used first to eliminate edema in tumor cases in order to reveal the underlying damaged corpus callosum that was not otherwise visible. This technique is now being applied to early psychosis where findings demonstrate that there is widespread extracellular water in early psychosis, but also a small amount of water surrounding tissue in the frontal lobe, where the latter is likely indicative of neurodegenerative changes. In another study of chronic patients, the opposite was observed, i.e., very little extracellular water, i.e., perhaps no neuroinflammatory response, and more changes in the water surrounding or within tissue, likely more indicative of neurodegenerative changes. Dr. Shenton is also working with Dr. Larry Seidman and others in a sample of prodromes in Shanghai who are unmedicated (as well as applying this method as part of a large center grant with Dr. Tyrone Cannon) to investigate whether or not a neuroinflammatory response, measured using these diffusion derived measures, will, in prodromes, be an important biomarker that may identify a subset of individuals who go on to develop psychosis versus those who do not.

Dr. Shenton has also worked closely with collaborators (e.g., Drs. Roger Pitman, Mark Gilbertson, Omer Bonne, Tamara Gurvitz, and Arieh Shalev) investigating hippocampal abnormalities in individuals diagnosed with post-traumatic stress disorder (PTSD). A morphometric brain study of the amygdala-hippocampus in monozygotic twins was conducted where one twin was diagnosed with PTSD as a result of combat exposure in the Vietnam War, and the other twin was not. Findings suggested that given that the unaffected co-twin showed reduced volume in the amygdala-hippocampal complex, similar to the affected co-twin, there might be some individuals who have a predisposition to develop PTSD. Other morphometric studies of brain abnormalities in clinical populations include studies investigating cognitive and behavioral correlates of brain abnormalities in Williams's syndrome patients and in velocardiofacial syndrome, the latter a genetic disorder which, besides the risk of schizophrenia in a monozygotic twin where one is diagnosed with schizophrenia, those with velocardiofacial syndrome, or 22q11.DS, have the highest risk for developing schizophrenia.

Work using transcranial magnetic stimulation (TMS) has also been conducted by Dr. Shenton and collaborators in an attempt to understand further cognitive processes that are interrupted by TMS, thereby affording the opportunity to link cognitive processes that occur in the millisecond range with specific loci in the brain. This program of research was developed to examine motor maps but was extended to map cortical speech areas in order to determine whether there are differences in language processing between patients with schizophrenia and a normal comparison group. The latter proved to be difficult as the areas of language are folded in from the surface and stimulation proved to be difficult. The focus was then shifted to investigate the visual system where stimulation was coupled with a task where the individual pushed a button to unusual stimuli as TMS was performed over different time periods (Continuous Performance Task-CPT). Findings revealed a small window in which information was disrupted in visual processing, and where visual information did not reach secondary visual cortex, which also corresponded with poor performance on the CPT task, i.e., no awareness of the visual information on the CPT. That is, visual information did not reach the brain because the message was interrupted. This study was important because it provided information about external stimulation such as visual stimuli, and the time period to perceptual awareness of visual stimuli, and how, and under what circumstances, this perceptual processing stream may be interrupted. Future studies need to focus on disrupting brain circuits that are likely important in psychiatric disorders in order to determine the effects of stimulation on cognitive processes.

New studies using MR diffusion tensor imaging (MR-DTI) are also a major focus of work that Dr. Shenton and her research team are using to investigate white matter pathology in psychotic disorders. This is a relatively new imaging technique that is important for examining white matter fiber tracts in the brain and it has been applied to the study of schizophrenia. More specifically, unlike conventional MRI, where white matter appears uniform and homogeneous, the novel technology of MR-DTI affords an opportunity to investigate and to quantify normal and abnormal white matter fiber tracts *in vivo* in the human brain. Here Dr. Shenton and her collaborators, including Dr. Marek Kubicki, have used DTI to investigate the uncinate fasciculus, the most prominent white matter fiber tract connecting the frontal and temporal lobe, as well as other fiber tracts likely implicated in schizophrenia. Findings from this work, as well as other work in the field, demonstrate the importance of investigating white matter fiber tracts *in vivo* in schizophrenia, and support the hypothesis of a disruption in normal connectivity between temporo-frontal brain regions in schizophrenia. This work is being extended to first episode psychotic

patients and to those who are at risk for developing schizophrenia (prodromal phase) either by genetic predisposition or because of clinical symptoms (see description above).

Another area of research that Dr. Shenton and her colleagues, including Drs. Ross Zafonte, Inga Koerte, Robert Stern, Alex Lin, Ofer Pasternak, Paul Echlin, Connie Duncan, and Howard Eisenberg, are conducting is in the area of mild traumatic brain injury (mTBI). Here, the main damage to the brain is diffuse axonal injury, which is best characterized by diffusion imaging techniques. Mild TBI, also known as concussion, is, in fact, difficult to characterize using conventional CT and MRI because these imaging techniques are not optimal for detecting diffuse axonal injury, particularly as evinced by mild TBI. Diffusion tractography techniques that can quantify damage along fiber tracts are thus an important new area of research that may add to our understanding of TBI. Dr. Shenton and her colleagues are part of a large PTSD/TBI Clinical Consortium supported by the Department of Defense, which includes 10 sites across the country where neuroimaging has been conducted to understand better the neurobiology of TBI and PTSD. Dr. Murray Stein was principal investigator on this 10-site PTSD/TBI Clinical Consortium known as INTRuST (Injury & Traumatic Stress). On this project, Dr. Shenton and her team were responsible for setting up the image acquisition protocols at each site, setting up the image processing pipeline, conducting quality control and image processing, and storing the imaging data for future use. Work is also being conducted with Dr. Robert Stern and colleagues at Boston University investigating chronic traumatic encephalopathy using neuroimaging techniques in a sample of retired National Football Players (NFL) who have cognitive impairments and symptoms that are likely associated with repetitive brain trauma. This study was the first R01 funded by the National Institute of Neurological Diseases and Stroke where Dr. Stern was the principal investigator and it is now funded, with a focus on positron emission tomography as well as MR imaging, cognitive and clinical measures, and retired NFL players as well as college football players through a U01 mechanism with Drs. Robert Stern, Cummings, Reiman, and Shenton as multiple principal investigators. These latter two studies are ongoing.

A study of professional soccer players without concussion but with *subconcussive* blows to the head (with Dr. Inga Koerte and colleagues in Germany), as well as a study of ice hockey varsity university players in Canada (with Drs. Paul Echlin, Ofer Pasternak, Karl Helmer, and others), the latter both pre- and post-season, have also been conducted, which demonstrate that repetitive head trauma, even at subconcussive levels, leads to changes in the white matter integrity of the brain. A new PET study of tau ligands in the brain is just underway to determine whether or not the tau deposits observed in post-mortem brains of deceased NFL players, who experienced many clinical and cognitive symptoms, will be observed in living NFL players using a new PET tau ligand (supported by the Department of Defense with Drs. Shenton and Stern as multiple principal investigators). Findings from this study may lead to the identification of early changes in tauopathy in the brains of living NFL players, which might then set the stage for possible treatment and efficacy studies to prevent the cascade of progressive changes observed in chronic traumatic encephalopathy.

Finally, Dr. Shenton and her research team have been in the forefront of the field in developing MR tools to be applied to clinical populations. For example, members of her research team have pioneered in the development of novel tractography methods (e.g., UKF tractography), new diffusion contrasts (e.g., free-water, dispersion), novel analysis methods such as normative atlas analyses, automatic multi-atlas masking approaches, image denoising, between-site data harmonization for diffusion tensor imaging, as well as novel acquisition schemes such as line scan diffusion imaging, Q space imaging, in addition to multi-shell and compressed sensing approaches (see <http://pnl.bwh.harvard.edu>). The latter method significantly reduces the scan time of diffusion MRI by several orders of magnitude, and is being tested now by a member of Dr. Shenton's laboratory, Dr. Yogesh Rathi, who is developing and applying these techniques in children with attention-deficit hyperactivity disorder, a group that is difficult to acquire high quality imaging data from because they cannot stay still in the magnet for a sufficient period of time. Further, the tractography methods developed will make it possible, combined with the multi-shell compressed algorithm, to probe white matter neural circuits in the brains of these children, as well as in other clinical populations. Dr. Shenton and her research team have also worked closely with Dr. Ron Kikinis over the past 29 years and many of the tools developed have been integrated into open source software, set up by Dr. Kikinis, and available, publically, as part of 3D Slicer (<https://www.slicer.org>). By applying these new techniques to assess heretofore immeasurable differences between the brains of normal control subjects and patients afflicted with neuropsychiatric disorders, including schizophrenia, mild TBI, and repetitive trauma from TBI, Dr. Shenton and her colleagues hope to understand better the pathophysiology of schizophrenia and other neuropsychiatric disorders.

Report of Funding

Past Grant Support (109 grants)

1986-1990	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert McCarley)	Co-Investigator
1988-1993	NIH/NIMH K01 MH 00746 Schizophrenia: Clinical Symptoms & Brain Mechanisms	Principal Investigator
1988-1993	Veterans Administration Merit Review Neurophysiology of Behavior (PI: Dr. Robert McCarley)	Co-Investigator
1990-1993	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert McCarley)	Co-Investigator
1990-1993	Scottish Rite Foundation Computer Aided Image Analysis of Magnetic Resonance Brain Scans in Schizophrenia	Principal Investigator
1991-1992	William F. Milton Fund Award Analysis of Morphometric Information from MR Brain Images in Schizophrenia Using Newly Developed Techniques	Principal Investigator
1992-1994	Stanley Foundation MR Image Processing Techniques Applied to the Volumetric Analysis of the Superior Temporal Gyrus in Normal Controls and Patients Afflicted with Schizophrenia	Principal Investigator
1992-1995	The Whitaker Foundation Development of Computerized Image Processing Methods for the Quantitative Analysis of Brain Magnetic Resonance Images for the Diagnosis of Schizophrenia (PI: Dr. Ron Kikinis)	Co-Principal Investigator
1992-1997	NIH/NIMH P01 MH 31154 Collaborative Biological Research in Schizophrenia (PI: Dr. Philip Holzman) Project: Electrophysiology Studies in Schizophrenia (PI: Dr. Robert McCarley, Co-PI: Shenton)	Co-Principal Investigator, Project
1993-1997	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert McCarley)	Co-Investigator
1993-1998	Veterans Administration Merit Review Neurophysiology of Behavior (PI: Dr. Robert McCarley)	Co-Investigator
1994-1999	NIH/NIMH R29 MH 50740 Computerized Image Analyses of MR Scans in Schizophrenia	Principal Investigator
1994-1999	NIH/NIMH K02 MH 01110 Clinical Symptoms & Brain Abnormalities in Schizophrenia	Principal Investigator

1994-1999	NIH/NIMH R01 MH 52807 Biological Basis of Schizotypal Personality Disorder (PI: Dr. Robert McCarley)	Co-Principal Investigator
1995-1997	Scottish Rite Foundation Study of Cortical Speech Localization and Verbal Processing Using Rapid-Rate Transcranial Magnetic Stimulation in Normal Controls and Schizophrenic Patients	Principal Investigator
1995-1997	Supplement to NIH/NIMH R29 MH 50740 Research Supplement to Promote the Recruitment of Individuals with Disabilities into Biomedical Research Careers	Principal Investigator
1995-1997	NARSAD National Alliance for Schizophrenia and Depression, Young Investigator Award A 3D MRI Study of Temporal Lobe Structures in Schizophrenia and Schizotypal Personality Disorder (PI: Dr. Chandlee Dickey; Co-Mentors: Drs. Robert McCarley and Martha Shenton)	Co-Mentor
1995-2000	VA Center for Basic and Clinical Neuroscience Studies of Schizophrenia: The Neuroscience of Schizophrenia (PI: Dr. Robert McCarley)	Scientific Co-Director
1996-1998	NIH/NIMH R01 MH 50379 Prospective MRI Study of Hippocampus After Mental Trauma (PI: Dr. Arie Shalev)	Principal Investigator (sub-contract)
1996-2007	NIH/NIMH T32 MH 016259 Clinical Research in Biological and Social Psychiatry (PI: Dr. Stuart T. Hauser)(Grant funded from 07/01/1980-06/30/2006) (2007-2008, not funded: Funded again 07/01/08-06/30/2013, 07/01/2013-06/30/2018 (see below))	Co-Investigator
1997-2004	Senior Mentor, Stanley Scholars Program	Principal Investigator
1998-2001	VA Merit Award MRI Hippocampal Volume in Twins Discordant for Combat Exposure and PTSD (PI: Dr. Mark Gilbertson)	Co-Investigator
1998-2003	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert W. McCarley)	Co-Investigator
1998-2003	VA Merit Award MRI Anatomy of Schizophrenia (PI: Dr. Robert McCarley)	Co-Investigator
1998-2003	NIH/NIMH P01 MH 31154 Project: Collaborative Biological Research in Schizophrenia (PI: Dr. Philip Holzman) Project: Dymorphology Studies in Schizophrenia (PI: Dr. Curtis Deutsch)	Co-Investigator
1998-2013	NIH/NIH P41 RR13218 Project: Neuroimaging Analysis Center (PI: Dr. Ferenc Jolesz, Co-PI Dr. Ron Kikinis) Project: Interactive Digital Anatomy Atlas of the Brain Project: Schizophrenia (1998-2003 Dr. Shenton was PI on the Schizophrenia Project) (2003-2013 Dr. Shenton was a Collaborative Partner and Co-Investigator)	Principal Investigator (2projects)/Investigator (PI: Dr. Martha E. Shenton)

1999-2000	William F. Milton Fund Award MR Diffusion Tensor Imaging in Schizophrenia	Principal Investigator
1999-2001	NARSAD National Alliance for Schizophrenia and Depression, Young Investigator Award (PI: Dr. Melissa Frumin; Co-Mentors: Drs. Martha Shenton and Robert McCarley)	Co-Mentor
1999-2004	NIH/NIMH R01 MH 50740 Project: Computerized Image Analyses of MR Scans in Schizophrenia	Principal Investigator
1999-2004	NIH/NIMH K02 MH 01110 Clinical Symptoms & Brain Abnormalities in Schizophrenia	Principal Investigator
2000-2003	VA Merit Award MR Brain Diffusion Tensor Imaging in Schizophrenia	Principal Investigator
2000-2003	VA Career Award fMRI and MRI Studies in Schizophrenia & Schizotypal Personality Disorder (PI: Dr. Chandlee Dickey)	Co-Mentor with Dr. Robert McCarley
2000-2003	Binational Science Foundation Volumetric Analysis of Hippocampal Volume in Posttraumatic Stress Disorder (PI: Dr. Omer Bonne)	American-PI
2000-2004	NIH/NIMH R01 MH 60775 Brain Midline Malformations in Schizophrenia (PI: Dr. Curtis Deutsch)	Co-Investigator
2001-2002	Infrastructure Suppl.: NIH/NIMH R01 50740 Computerized Image Analyses of MR Scans in Schizophrenia	Principal Investigator
2001-2003	CA R21 89449 Mutual Information Based Image Processing for fMRI (PI: Dr. William Wells III)	Co-Investigator
2001-2003	NIH/NIMH R01 MH 50379 Prospective MRI Study of Hippocampus After Mental Trauma (PI: Dr. Arie Shalev)	Co-Investigator
2001-2003	NARSAD National Alliance for Research in Schizophrenia and Depression, Young Investigator Award Project: A magnetic Resonance Diffusion Tensor Study of the Cingulate Fasciculus in Schizophrenia (PI: Dr. Marek Kubicki; Co-Mentors: Drs. Martha Shenton and Robert McCarley)	Co-Mentor
2000-2005	NIH/NIMH R01 MH 52807 Biological Basis of Schizotypal Personality Disorder (PI: Dr. Robert McCarley)	Co-Principal Investigator
2002-2005	VA Merit Award Structural Brain MRI and Neurocognitive Function in Female Nurse Vietnam Veterans (PI: Dr. Mark Gilbertson)	Consultant

2003-2004	VA Career Development Award White Matter Abnormalities in Schizophrenia (PI: Dr. Melissa Frumin)	Co-Mentor with Dr. Robert McCarley
2003-2005	NIH/NIMH R03 MH 068464 White Matter Myelin Abnormalities in Schizophrenia (PI: Dr. Marek Kubicki) (One Year No Cost Extension to 2006)	Co-Investigator
2003-2005	NARSAD National Alliance for Schizophrenia and Depression, Young Investigator Award Understanding the Nature of White Matter Abnormalities in Cingulate Fasciculus in Schizophrenia (PI: Dr. Marek Kubicki; Co-Mentors: Drs. Martha E. Shenton and Robert W. McCarley)(One Year No Cost Extension to 2006)	Co-Mentor
2003-2006	VA Research Enhancement Award Program Neuroimaging Studies in Schizophrenia (PI: Dr. Robert McCarley)	Co-Principal Investigator
2003-2006	BWH Translational Grant Structural and Functional MRI of the Cingulate Gyrus to Examine Emotional Processing in Schizophrenia and Schizotypal Personality Disorder (PI: Dr. Chandlee Dickey; Co-PI: Dr. Marek Kubicki)	Mentor
2003-2006	VA Advanced Career Development Award Functional & Structural MRI of Temporal Lobe in Schizotypal Personality Disorder (PI: Dr. Chandlee Dickey)	Co-Mentor with Dr. Robert McCarley
2003-2007	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert W. McCarley)	Co-Investigator
2003-2008	VA Merit Award MR Brain Diffusion Tensor Imaging in Schizophrenia	Principal Investigator
2003-2008	VA Merit Award MRI Anatomy of Schizophrenia (PI: Dr. Robert W. McCarley)	Co-Investigator
2003-2013	NIH/NIBIB P41 RR13218 Neuroimaging Analysis Center (PI: Dr. Ron Kikinis) The Development of White Matter Tools Based on Diffusion MRI (PI: Dr. Carl-Fredrik Westin)	Co-Investigator/Collaborative Partner
2004-2005	NIH/NIMH R01 MH 50740 Computerized Image Analyses of MR Scans in Schizophrenia” [No Cost Extension]	Principal Investigator
2004-2010	National Alliance for Medical Imaging Computing (NA-MIC), U54 GM072977-01, NIGHS/NIH (PI: Ron Kikinis). PI of Project 3-A: Brain Connectivity in Schizophrenia (2004-2007) Project: Velocardiofacial Syndrome (2007-2010)	Core-Principal Investigator (PI: Dr. Marek Kubicki) (Co-Investigator: Dr. Martha E. Shenton)

2005-2005	Supplement to NIH/NIMH R01 50740 Project: Computerized Image Analyses of MR Scans in Schizophrenia Minority Supplement (Christopher Webber)	Principal Investigator
2004-2009	NIH/NIMH K05 MH 070047 Clinical Symptoms & Brain Abnormalities in Schizophrenia	Principal Investigator
2005-2009	VA Merit Award Context and the Hippocampus in Unremitting Posttraumatic Stress Disorder (PI: Dr. Mark Gilbertson)	Consultant
2005-2010	NIH/NIMH R01 MH 52807 Biological Basis of Schizotypal Personality Disorder (PI: Dr. Robert W. McCarley)	Co-Principal Investigator
2005-2010	NIH/NIMH R01 MH 50740 Computerized Image Analyses of MR Scans in Schizophrenia (1 year No-Cost Extension to 2011)	Principal Investigator
2006-2009	Supplement to NIH/NIMH R01 MH 50740 Computerized Image Analyses of MR Scans in Schizophrenia Reentry to Biomedical Research (Dr. Zora Kikinis funded)	Principal Investigator
2006-2011	NIH/Fogarty International Center FIC NIH 2 D43 TW05807 Project: ICOHRTA Research Training Program at Children's Hospital Boston with Major Foreign Collaborators (MFC) in Turkey in Partnership with NIMH International Mental Health and Developmental Disabilities Research Training Program (PI: Dr. Kerim Munir)	US Program Faculty/Mentor
2006-2011	VA Schizophrenia Center Grant Neuroimaging Insights into Schizophrenia & Treatment Implications (PI: Dr. Robert W. McCarley)	Co-Principal Investigator
2007-2012	NIH/NIMH R01 MH 074794 Novel DT-MRI Analyses of White Matter in Schizophrenia (PI: Dr. Carl-Fredrik Westin)(sub award)	Co-Investigator/Contributor
2007-2012	NIH/NIMH R01 MH 40799 Neurophysiological Studies of Schizophrenia (PI: Dr. Robert W. McCarley) (sub award)	Co-Investigator
2007-2012	NIH/NIMH 1P50 MH 080272 NIH Mental Health Centers for Interventional Development and Applied Research (CIDAR) Vulnerability to Progression in Schizophrenia (PI: Dr. Robert W. McCarley) (Project PI: Vulnerability to White Matter Progression in Schizophrenia, and Core PI: Imaging Core) (Continued through No Cost Extension to 6/30/2013)(sub award)	Project PI and Core PI
2008-2010	NARSAD National Alliance for Schizophrenia and Depression Young Investigator Award White Matter Changes in Subjects with Neuregulin 1 Haplotype HAP-ICE and ErbB4 Schizophrenia Risk Haplotypes (PI: Dr. Zora Kikinis; Co-Mentors: Drs. Martha E. Shenton, Gabriel Corfas and Raj Kucherlapati)	Co-Mentor

2008-2010	NIH/NIMH R21 MH 077979 Behavioral and fMRI study: Social Reciprocity in Schizotypal Personality Disorder” (PI: Dr. Chandlee Dickey)	Co-Investigator/Contributor
2008-2012	NIH/FIRCA R03 TW008134 MRI and Neurological Findings in Schizophrenia, ADHD, and Healthy Controls Study conducted in Istanbul, Turkey (Site PI: Dr. Ozgur Oner) (Continued through No Cost Extension to 2013)	Principal Investigator/Mentor
2008-2012	National Health & Medical Research Council Australian Government MHMRC Training Fellowship (PI: Dr. Thomas Whitford)	Supervisor/Mentor
2008-2013	NIH/NIMH T32 MH 016259-29 Clinical Research in Biological and Social Psychiatry Name change to: The Stuart T. Hauser Clinical Research Training Program in Biological & Social Psychiatry. Grant entering 29 th year: (07/01/1980-6/30/2013) (2007-2008, not funded) Dr. Shenton was a fellow from 1984-1986 on this grant and then an investigator and Associate Director on this grant from 1996 to 2007. The grant was renewed in 2008. At this time, Dr. Shenton became PI and Co-Director following the untimely death of Dr. Stuart Hauser.	Principal Investigator
2008-2013	Dod W81XWH-08-2-0159 Department of Defense Harvard Clinical Defense Consortium (HCDC): PTSD/TBI Clinical Consortium (PI: Dr. Ross Zafonte, Co-PIs: Drs. Martha Shenton and Roger Pitman) (Overall PI: Dr. Murray Stein, UCSD)	Co-Principal Investigator (No Cost Extension to 2014)
2008-2013	Dod W81XWH-08-2-0159 Department of Defense Infrastructure Support to Harvard Clinical Consortium	Investigator (No Cost Extension to 9/2016)
2009-2009	Supplement to NIH/NIMH R01 MH 50740 Project: Computerized Image Analyses of MR Scans in Schizophrenia NIH American Recovery and Reinvestment Act of 2009 (ARRA) Administrative Supplement to R01 MH 50740 for Students and Science Educators (NOT-OD-09-060) 2008-2010 (supported six students for hands on research experience in the Psychiatry Neuroimaging Laboratory)	Principal Investigator
2009-2011	NIH/NIMH R21 MH 083205 Language and Risk in Schizophrenia (PI: Dr. Lynn DeLisi)(sub award)	Co-Investigator
2009-2011	CIMIT Center for Integration of Medicine and Innovative Technology Solider in Medicine Award Traumatic Brain Injury Diagnosis with Diffusion MRI (PI: Dr. Sylvain Bouix)(Continued through No Cost Extension – 2012)	Mentor
2009-2011	NARSAD National Alliance for Research in Schizophrenia and Depression Distinguished Investigator Award A Novel Application for Diffusion-Weighted Functional Magnetic Resonance Imaging to Schizophrenia: A More Robust Measure of Brain Activation (Continued through no cost extension to 2013)	Principal Investigator

2009-2012	VA Merit Award MR Brain Imaging of Frontal-Striatal-Thalamic Circuits in Schizophrenia (PI: Dr. James Levitt)	Co-Investigator
2009-2013	Dod W81XWH-08-2-0159 Department of Defense Neuroimaging Leadership for the 10 PTSD/TBI Clinical Consortium Sites (Other PIs: Drs. Ron Kikinis and Bruce Rosen)	PI Neuroimaging Leadership Core (No Cost Extension to 9/2016)
2009-2014	VA Merit Award MR Brain Diffusion Tensor Imaging in Schizophrenia	Principal Investigator
2009-2014	NIH/NIA R01 AG034554 Project: Social and Neural Underpinnings of Octogenarian Wellbeing (PI: Dr. Robert Waldinger)	Co-Investigator
2009-2014	NIH/NIMH R01 MH 082918 Computational Morphometry in Schizophrenia and Related Disorders (PI: Dr. Sylvain Bouix)	Co-Principal Investigator (No Cost Extension – 2015)
2010-2011	CIMIT Center for Integration of Medicine and Innovative Technology Improving Imaging of Diffuse Axonal Injury in Traumatic Brain Injury (Co-PI: Drs. Bruce Kristal and Ross Zafonte)(Continued through No Cost Extension to 2015)	Principal Investigator
2010-2012	NARSAD National Alliance for Schizophrenia and Depression Young Investigator Award Investigating the Utility of Two Neurophysiological Biomarkers in Predicting Transition to Schizophrenia in Ultra-High Risk Individuals (PI: Dr. Thomas Whitford; Co-Mentors: Drs. Martha E. Shenton, Christos Pantelis and Judith Ford) (Continued through No Cost Extension to 2014)	Co-Mentor
2010-2014	NIH/NIA R01 AG 034155 Project: Identifying Biomarkers of Alzheimer's in Insulin Resistant Patients Using MRI (PI: Dr. Gail Musen)	Co-Investigator
2011-2012	CIMIT Center for Integration of Medicine and Innovative Technology Project: Diagnosis of Diffuse Axonal Injury Using Robust Tract-Based Quantification of Diffusion Tensor Imaging (PI: Dr. Lauren O'Donnell)(Continued through No Cost Extension to 2016)	Significant Contributor
2011-2012	CIMIT Center for Integration of Medicine and Innovative Technology Neurochemical and Multimodal Markers for Chronic Traumatic Encephalopathy (PI: Dr. Alexander Lin)(Continued through No Cost Extension to 2016)	Co-Investigator
2011-2013	Dod W81XWH-08-2-0159 Project: Brain Indices of Risk for PTSD Following Mild TBI (PI: Dr. Connie Duncan)	Co-PI and PI Sub award (No Cost Extension to 9/2016)
2011-2013	Dod W81XWH-08-2-0159 Project: Post-Processing of Images for Clinical Consortium (Other PIs: Drs. Ron Kikinis and Bruce Rosen)	Principal Investigator (No Cost Extension 9/2016)

2011-2013	DoD W81XWH-08-2-0159 Project: A Randomized-Clinical Trial of Glyburide (RP-1127) for TBI (PI: Dr. Howard Eisenberg)	Principal Investigator of Sub award (No Cost Extension to 9/2016)
2011-2013	DoD W81XWH-08-2-0159 Pilot Project: Novel Functional and Structural Biomarkers of Neuroinflammation and White Matter Change in TBI: A Potential New Diagnostic and Therapeutic Approach (Co-PIs: Drs. Emily Stern and Ross Zafonte)	Principal Investigator (No Cost Extension to 2015)
2011-2015	NIH/NINDS R01 NS 078337-01 Project: Chronic Traumatic Encephalopathy: Clinical Presentation and Biomarkers (PI: Dr. Robert Stern)	Co-Investigator (No Cost Extension to 2016)
2011-2015	NIH/NIMH R01 MH 090291-01 Fetal Hormonal Programming of Sex Differences in Aging of the Memory Circuitry (PI: Dr. Jill Goldstein)	Co-Investigator (No Cost Extension to 9/2016)
2012-2016	NIH/NIMH 5R01 MH 64824-11 Biomarkers for Psychosis in Velocardiofacial Syndrome (PI: Dr. Wendy Kates)	Consultant
2012-2016	NIH/NIMH 1R01 MH 09238 Genetic Determinants of Schizophrenia Intermediate Phenotypes (PI: Dr. Tracey Petryshen)	Co-Investigator
2012-2017	NIH/NIMH R01 MH 074794 Novel DT-MRI Analyses of White Matter in Schizophrenia (PI: Dr. Carl-Fredrik Westin)	Significant Contributor
2012-2017	NIH/NIMH R01 MH 097979 Taking Advanced Diffusion Imaging to the Clinic for Pediatric Patients with ADHD (PI: Dr. Yogesh Rathi)	Significant Contributor, then Co-Investigator
2013-2015	NIH/Fogarty F31 NS 081957 Ruth L. Kirchstein National Research Service Award for Individual Pre-Doctoral Fellows Frontal Lobe Neuroimaging as a Biomarker of Chronic Traumatic Encephalopathy (PI: Dr. Julie Stamm; Co-Sponsors Drs. Robert Stern and Martha E. Shenton)	Co-Sponsor
2013-2016	NIH/NIMH R01 MH 101052 Validating Biomarkers for the Prodrome and Transition to Psychosis in Shanghai (PI: Dr. Larry Seidman)	Consultant and then Co-Investigator
2013-2016	DoD/W81XWH-13-2-0063 Congressionally Directed Medical Research Programs (CDMRP) Traumatic Brain Injury Award Project: Tau Imaging of Chronic Traumatic Encephalopathy (Co-Partnering PI: Dr. Robert Stern)	Principal Investigator
2013-2015 (NCE 2017)	NARSAD National Alliance for Schizophrenia and Depression Young Investigator Award Free-Water as a Novel Imaging Biomarker for the Investigation of Inflammation and Degeneration Dynamics in Schizophrenia (No Cost Extension to 12/2016) (PI: Dr. Ofer Pasternak; Co-Mentors: Drs. Martha E. Shenton and Marek Kubicki)	Co-Mentor
2013-2018	VA Career Development Award	Co-Mentor

	Providence VAMC PTSD and the Default Network: Developing Imaging Phenotypes (PI: Dr. Noah Philip; Co-Mentors: Drs. Robert Swift, Martha Shenton, Lawrence Sweet, Linda Carpenter, Tracie Shea)	
2013-2018	NIH/NIMH K23 MH 097844 Cognitive Processing Therapy for PTSD with Co-Morbid Mild Traumatic Brain Injury (PI: Dr. Kaloyan Tanev)(Co-Mentors: Drs. Roger Pitman, Martha Shenton, Ross Zafonte, Patricia Resick, Jennifer Vasterling, Naomi Simon)	Co-Mentor
2013-2018	NIH/NIMH T32 MH 016259-29 Clinical Research in Biological and Social Psychiatry Name change to: The Stuart T. Hauser Clinical Research Training Program in Biological & Social Psychiatry. Grant entering 34 th year: (07/01/1980-6/30/2018) (2007-2008, not funded) Dr. Shenton was a fellow from 1984-1986 on this grant and then an investigator and Associate Director on this grant from 1996 to 2007. The grant was renewed in 2008. At this time, Dr. Shenton became PI and Co-Director following the untimely death of Dr. Stuart Hauser.	Principal Investigator
2014-2019	NIH/NIMH MH K23 10061 Speech and Cognitive Networks in Hallucinators Across the Psychoses Spectrum. (PI: Ann Shin; Co-Mentors: Drs. Dost Ongur, Martha Shenton, John Gabrieli, and Randy Buckner)	Co-Mentor
2015-2016	NIH/NINDS 2R56 NS 078337 Bridge Funding for NIH/NINDS R01 NS 078337-01 Chronic Traumatic Encephalopathy: Clinical Presentation and Biomarkers (PI: Dr. Robert Stern)	Co-Investigator
2015-2017	NIH/NIMH R21 106793 Structural Connectivity Biomarkers in Prodromes and 22q11.2 Deletion Syndrome (PI: Dr. Zora Kikinis)	Significant Contributor
2015-2019	Fogarty/NIH 5D43 MH 108169 Multidisciplinary Training Program on Neuropsychiatry and Behavioral Disorders in First Nations (NEUOFIN) (PI: Dr. Gabriel A. de Erausquin)	Principal Investigator of Subaward
2016-2018 NCE 2019	NIH/NIMH R21 MH109819 Ventricles, Corpus Callosum & M1R137 in Large N Study of Schizophrenia (PI: Dr. Elisabetta Del Re)	Subaward PI
2014-2018 NCE 2019	VA Merit Award (I01 RX00928) Development of MR Biomarkers of Brain Injury in Acute and Chronic mTBI	Principal Investigator
2015-2017 NCE 2019	NARSAD National Alliance for Schizophrenia and Depression Young Investigator Award Computational methods for structural brain morphology in neurodevelopment (PI: Dr. Peter Savadjiev)	Mentor
2016-2019	NIH/NSF R01 HD 090641 CRCNS: Subject-Specific Diffusion MRI Profiles of Injury in TBI and PTSD (PI: Dr. Sylvain Bouix)	Co-Investigator

Current Grant Support (16 grants)

2012-2018 NCE 2019	NIH/NIMH R01 MH 097979 Taking Advanced Diffusion Imaging to the Clinic for ADHD Patients (PI: Yogesh Rathi)	Co-Investigator
2013-2018 NCE 2019	NIH/NIA R01 AG 042512 Project: Neural Substrates of Diffusion Imaging in Cognitively Aging Rhesus Monkeys (PI: Dr. Marek Kubicki)	Significant Contributor, then Co-Investigator
2014-2019 NCE 2020	NIH/NIMH R01 MH102377 Diffusion Imaging Biomarkers for Risk, Onset, & Outcome in Schizophrenia (PI: Dr. Marek Kubicki)	Co-Investigator
2015-2019 NCE 2020	VA Merit Award (I01 CX000176-06) MR Brain Diffusion Tensor Imaging in Schizophrenia	Principal Investigator
2015-2020	NIH/NIMH U01 MH 081928-06 Predictors and Mechanisms to Psychosis (PI: Dr. Tyrone Cannon; Site PI in Boston: Dr. Larry Seidman)	Co-Investigator
2015-2022	NIH/NINDS U01 NS 093334 Diagnostics, Imaging, and Genetics Network for the Objective Study and Evaluation (DIAGNOSE) of chronic traumatic encephalopathy (Multiple PIs: Drs. Robert Stern, Jeffrey Cummings, Eric Reiman, and Martha Shenton)	Multiple PI
2016-2020	NIH/NIMH U01 NIMH 109977 Human Connectome Project for Early Psychosis (Multiple PI: Dr. Alan Breier; Site PIs: Drs. Larry Seidman, Dost Ongur, Daphne Holt)	Contact PI, Multiple PI
2016-2021	NIH/NIMH R01 MH 111448 A Psychological Follow Up Study of Transition from Prodrome to Early Psychosis (Multiple PIs: Drs. Huijun Li, Robert W. McCarley, Larry Seidman (Contact PI), Martha E. Shenton, Jijun Wang, Susan Whitfield-Gabrieli)	Multiple PI
2016-2020	NIH/NSF HD 090641 Building MRI Reference Atlases to Analyze Brain Trauma and Post-Traumatic Stress (Multiple PIs: Drs. Sylvain Bouix and Damian Wassermann)	Co-Investigator
2016-2021	NIH/NIMHR01 MH 108574 New Generation Diffusion MRI Biomarkers for Prodromal Schizophrenia (PI: Dr. Ofer Pasternak)	Co-Investigator
2018-2021	NIH/NIMH R21 MH 116352 Multimodal Brain-Connectivity Biomarkers for Profiling Heterogeneity in Early Psychosis (PI: Lipeng Ning)	Co-Investigator
2018-2023	NIH/NIMH R01 MH 116173 Next Generation In Vivo Diffusion Imaging at Submillimeter Resolution (PI: Drs. Setsompop, Yogesh Rathi)	Co-Investigator
2019-2021	NIH/NIMH R21 MH 121704 The Brain Wiring of Frontostriatal Connections in Early Psychosis (PI: Dr. James Levitt)	Subaward PI
2019-2024	NIH/NIMH T32 MH 016259-39	Principal Investigator

Clinical Research in Biological and Social Psychiatry

Name change to: The Stuart T. Hauser Clinical Research Training Program in Biological & Social Psychiatry. Entering year 39.

Dr. Shenton was a fellow from 1984-1986 on this grant and then an investigator and Associate Director on this grant from 1996 to 2007. The grant was renewed in 2008. At this time, Dr. Shenton became PI and Co-Director following the untimely death of Dr. Stuart Hauser. From 2013 to 2018 (NCE to 2019) the grant continued with Drs. Shenton and McCarley serving as Co-Directors until 2017 when Dr. McCarley passed away and Dr. Marek Kubicki joined Dr. Shenton as Co-Director.

2019-2024	NIH/NIBIB T32EB025823-01	Senior Mentorship Faculty
	Training in Image Guidance, Precision Diagnosis and Therapy	
	(PIs: Drs. Clare Tempany and Fiona Fennessy)	
2019-2024	NIH/NIMH R01 MH117012	Co-Investigator
	Neuroprogression Across the Psychosis Spectrum in the Early Course of Illness	
	(PI: Dr. Eve Lewandowski)	

Report of Teaching

Local Contributions

Tufts University

1975-1976 Motivation, Psychology Department, Tufts University, Medford, MA
Teaching Fellow
50 undergraduates
5 hours/week for two semesters

Brandeis University

1985-1986 Abnormal Psychology, Psychology Department, Brandeis University, Waltham, MA
Visiting Lecturer
45 undergraduates
20 hours/week for two semesters

Harvard University

1979-1980 Stress and Illness, Psychology & Social Relations, Harvard University, Cambridge, MA
Teaching Fellow
75 undergraduates
5 hours/week for one semester

Human Nature, Psychology and Social Relations, Harvard University, Cambridge, MA
Teaching Fellow
75 undergraduates
5 hours/week for one semester

1980-1981 Methods in the Social Sciences, Psychology and Social Relations, Harvard University, Cambridge, MA

Teaching Fellow
35 undergraduates
10 hours/week for one semester

Developmental Psychopathology, Psychology and Social Relations, Harvard University, Cambridge, MA

	Teaching Fellow 40 undergraduates 5 hours/week for one semester
1981-1982	Sophomore Tutorial, Psychology & Social Relations, Harvard University, Cambridge, MA Sophomore Tutor 12 undergraduates per semester 20 hours/week for two semesters
	Stress and Illness, Psychology & Social Relations, Harvard University, Cambridge, MA Teaching Fellow 80 undergraduates 5 hours/week for one semester
1982-1983	Sophomore Tutorial, Psychology & Social Relations, Harvard University, Cambridge, MA Sophomore Tutor 12 undergraduates per semester 20 hours/week for two semesters
	Methods in the Social Sciences, Psychology and Social Relations, Harvard University, Cambridge, MA Teaching Fellow 35 undergraduates 10 hours/week for one semester
1983-1984	Schizophrenia, Psychology and Social Relations, Harvard University, Cambridge, MA Teaching Fellow 45 undergraduates 10 hours/week for one semester

Other Teaching/Advisory Responsibilities at Harvard University

1981-1983	Resident Tutor and Adviser, Dudley House, Harvard College, Cambridge, MA Resident Tutor and Adviser to 80 undergraduate Psychology & Social Relations Majors
1984-	Thesis Advisor, Harvard College, Cambridge, MA
2000-	Member, Board of Honors Tutors, Department of Psychology (Arts and Sciences), Harvard University, Cambridge, MA

Harvard Medical School

1986-2005	Clinical Research Advisor for Post-Doctoral Research Fellows in the Dept. of Psychiatry, VA Boston Healthcare System, Harvard Medical School, Brockton, MA (see section on Supervisory Role for specific students). Mentor on research projects (2 hours per week). Mentor post-doctoral fellows on their research projects (5-10 hours per week).
1990-2005	Clinical Research Advisor for Visiting Scholars in the Department of Psychiatry, VA Boston Healthcare System, Harvard Medical School, Brockton, MA (see also Supervisory Role for specific students). Mentor visiting scholars on research projects (2 hours/week)
1993-1994	Acting Co-Director, Biological Psychiatry, Clinical Research Training Program,

Department of Psychiatry, Harvard Medical School. Responsible for coordinating the Clinical Research Training Program, including the weekly seminar where fellows met weekly for a didactic seminar (2-3 hours per week).

- 1993-1994 Coordinator, Lecturer, Neuroscience Seminar Series, Residency Training Program, Department of Psychiatry, Harvard Medical School, VAMC-Brockton, MA. Responsible for coordinating a yearlong seminar series on neuroscience (5 hours per week).
- 1993-1996 Coordinator, Lecturer, Biological Psychiatry, Clinical Research Training Program, Department of Psychiatry, Harvard Medical School. Assisted in coordinating the Clinical Research Training Program seminars and in the administrative aspects of the program (3 hours per week).
- 1993- Preceptor, Biological Psychiatry, Clinical Research Training Program, Department of Psychiatry, Harvard Medical School (see section Supervisory Role for specific students). Preceptor on individual research projects for post-doctoral fellows (10-20 hrs. per week).
- 1996-2007 Associate Director, Clinical Research Training Program, Department of Psychiatry, HMS. Responsible for assisting in coordinating and administering aspects of the Clinical Research Training Program, including co-directing the weekly seminar (2-3 hours per week).
- 2008- Co-Director, and PI, Clinical Research Training Program, Department of Psychiatry, HMS. Responsible for assisting in coordinating and administering aspects of the Clinical Research Training Program, including co-directing the weekly seminar (2-3 hours per week).

VA Boston Healthcare System

- 2008-2010 Co-Organized the Research Methods PGY-II Course as Part of the Harvard South Shore Residency Training Program in Psychiatry, VA Boston Healthcare System, Brockton, MA
- 2008-2012 Directed Monthly Seminar for Residency Pathway to Research Training Program, Harvard South Shore Residency Training Program in Psychiatry, VA Boston Healthcare System, Brockton, MA

Report of Mentoring and Training

Dr. Shenton has mentored many talented trainees over the course of her career, including former trainees who are now Deans of Medical Schools (n=3), Associate Deans of Medical School (n=1), Presidents or Directors of Hospitals (n=3), Medical Directors of Hospitals (n=2), Vice Presidents of Hospitals (n=1), Department Chairs (n=6), Professors (n=14), Associate Professors (n=18), Assistant Professors (n=20), Instructors (n=7), as well as Research/Senior Scientists (n=8), and Residency Training Directors (n=1). In addition, Dr. Shenton has mentored graduate school dissertations (n=4), master's theses (n=4), undergraduate senior honors theses (n=7), undergraduate independent study course (n=13), and set up a program to enroll medical students, undergraduates, and high school students to obtain what for many are their first on hands research experience (n=>300). She has also supervised research assistants who have gone on to graduate and medical school and beyond (n=>100). In addition many trainees have gone on to residency training and to clinical staff positions (n=20). (Note: some individuals were both Professors and Department Chairs.) See also **Awards and Honors** section of CV for mentoring awards Dr. Shenton has received, including the *William Silen Lifetime Achievement Award for Mentoring*, from Harvard Medical School.

Preceptorships

- 1991-1994 Hiroto Hokama, M.D., Ph.D., Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (received the *Neal Mysell Award*, 1994, for most outstanding poster presentation at the *Second Annual Research Day*, Department of Psychiatry, Harvard Medical School). (See Bibliography portion of CV for first author and co-authorship on abstracts, papers, and presentations at professional meetings). (Currently Assistant Professor, Department of Psychiatry, University of Ryukyu, Okinawa).
- 1994-1995 Hirokazu Ohta, M.D., Ph.D., Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See CV for first author and co-authorship on abstracts, papers, and presentations at professional meetings). (Currently, Director, Hirayasu Hospital, Okinawa).
- 1994-1995 Chiara Portas, M.D., Research Fellow, Visiting Scholars Program, Basic and Clinical Neuroscience Divisions Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first authorship and co-authorship on abstracts, papers). (Currently Professor at the London Sleep Clinic and Honorary Fellow at the Institute of Neurology, University of London, London, England.)
- 1994-1996 Dan Iosifescu, M.D., Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on abstracts, papers, and presentations at professional meetings; *Hackett Award*, 2000, for paper written as first author on elastic matching while in the laboratory). Chief Resident in Psychiatry, followed by Instructor and Assistant Professor in the Department of Psychiatry, Massachusetts General Hospital, Harvard Medical School. Also, received a *Kaplen Fellowship on Depression Research Award* in 2000 from the Department of Psychiatry, Harvard Medical School, a *Livingston Fellowship Research Award* in 2001 from the Department of Psychiatry Harvard Medical School, an *America Psychiatric Association Young Investigator Travel Award* in 2001, a *Clinical Investigator Training Program Fellowship* at the Harvard/MIT Health Sciences and Technology (HST), in collaboration with Pfizer, Inc., in 2001, a NARSAD (National Alliance for Research in Schizophrenia and Depression) in 2001-2002, a *New Investigator Award* from NCEU (New Clinical Drug Evaluation Unit, National Institute of Mental Health) in 2002, a *K23 Award* from NIMH from 2003-2008, PI of a project that is part of a U54 grant to Drs. Keohane and Glaser in 2007-2009, R01 funding from NIH from 2008-2013, listed as *Best Doctors in America* (Psychiatry Section: Mood and Anxiety Disorders, for 2005-2006, listed in the *Best Doctors in Boston* (Psychiatry) in *Boston Magazine* in 2006, a *Sidney R. Baer Jr. Foundation Young Investigator Award from NARSAD* (National Alliance for Research on Schizophrenia and Depression) 2006-2008, listed in *Best Doctors in America* (Psychiatry Section: Mood and Anxiety Disorders) 2007-2008, and listed in *Best Doctors in Boston* (Psychiatry) in *Boston Magazine*, 2008. He is currently Associate Professor of Psychiatry and Neuroscience and Director of the Mood and Anxiety Disorders Program at Ichan School of Medicine at Mount Sinai.
- 1994-1998 Geoff Potts, Ph.D., Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry a VAMC-Brockton, Harvard Medical School (*Peter B. Livingston Fellowship* 1996-1997; *NARSAD Young Investigator Award* 1998-2000). (See also Bibliography portion of CV for first and co-authorship on abstracts, papers, and presentations). (Associate Professor of Psychology, Rice University, Texas, then Assistant Professor of Psychology, Florida State University, and currently Associate Professor in Psychology, University of Oregon.)

- 1994-2007 Chandlee Dickey, M.D., Research Fellow, and Assistant Professor, and then Associate Professor Clinical, Neuroscience Division, Laboratory of Neuroscience (1994-2010), Department of Psychiatry, Harvard Medical School, and Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School (*Ethel Dupont Warren Fellowship* 1995-1996; *NARSAD Young Investigator Award* 1995-1997; NIMH Sponsored, *Schizophrenia Young Investigator Award* 1997; *VA Postdoctoral Fellowship in Neuropsychiatry Research/Neurosciences* 1997-2000; *Career Development Award* 2000-2003; *VA Advanced Career Development Award* 2003-2006). (Other funding: R21 2008-2010.)(See CV for first author/co-authorship on papers). Residency Training Director, South Shore Residency Training Program in Psychiatry, Harvard Medical School (2010-2018). Currently, Department Chair of Psychiatry, Western University Medical School, Western Ontario.
- 1995-1996 Hajime Arakaki, M.D., Visiting Instructor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on abstracts, papers and presentations at professional meetings.) (Currently President of Arakaki Hospital, Okinawa, Japan.)
- 1995-1997
(see also 2004-2005) Paola Mazzoni, Medical Student from the University of Chicago taking a leave of absence to conduct clinical research studies in the Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See bibliography portion of CV for co-authorship on abstracts and presentations at professional meetings). (Resident in Psychiatry at Massachusetts General Hospital, Harvard Medical School, Boston, MA, and completed residency training at Duke University School of Medicine, Durham, NC, completed a fellowship in Child Psychiatry at the Columbia University College of Physicians and Surgeons and is now on staff at Cornell Medical School as a research fellow and staff psychiatrist.)
- 1995-1998 Jun Soo Kwon, M.D., Ph.D., Visiting Assistant Professor, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on abstracts and presentations at professional meetings). (Assistant Professor, and Associate Professor, and now Professor and Chair, Department of Psychiatry, National University College of Medicine, Seoul, South Korea, where he has received the *Paul Janssen Schizophrenia Award* from the Korean Neuropsychiatric Association, October, 2000, for his work in schizophrenia. *The Wunsch Medical Award*, 2009, the most honorable award from the Korean Academy of Medical Sciences, Seoul National University, Seoul, South Korea).
- 1995-1999 Yoshio Hirayasu, M.D., Ph.D., Visiting Assistant Professor, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author & co-authorship on abstracts, papers, and presentations at professional meetings). (Professor and Chairman, Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan, and, as of April 1, 2010, President of Yokohama City University Hospital Medical Center, and Dean of the Graduate School of Medicine, Yokohama City University Graduate School of Medicine, Yokohama, Japan. Youngest full Professor in Japan at the time of his Appointment. Currently General Director of the Medical Corporation, Hirayasu Hospital. Professor Emeritus, Yokohama City University.)
- 1996-2000 Jane Anderson, Ph.D., NIMH Post-Doctoral Research Fellow, Clinical Research Training Program in Biological Psychiatry, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (1996-1997; *Peter Livingston Fellowship Award* 1997-1998; *NIMH Individual Postdoctoral National*

Research Service Award 1998-1999; 1999-2000). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings). (At home raising her son.)

- 1997-2004 Melissa Frumin, M.D., Post-Doctoral Research Fellow, and then Instructor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (*Ethel Dupont-Warren Fellowship* 1997-1998; *VA Postdoctoral Fellowship in Neuropsychiatry Research/Neurosciences* 1998-2001; *NARSAD Young Investigator Award* 1999-2001; *VA Career Development Award* 2002-2005). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts, and presentations at professional meetings). (Currently Assistant Professor, Department of Psychiatry, Brigham and Women's Hospital and Harvard Medical School.)
- 1998-1999 Shin Tanaka, M.D., Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (see CV for first and co-authorship on abstracts, papers, and presentations at professional meetings). (Currently, Instructor, Department of Psychiatry, University of Ryukyu, Okinawa.)
- 1999-2001 Almos Nagy, M.D., Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings). (Resident in Psychiatry at the South Shore Residency Training Program, Department of Psychiatry, Harvard Medical School and then Geriatric Psychiatrist at the Mental Health Center of Greater Manchester, NH. Currently, Staff Psychiatrist, VA Bedford Healthcare System, Bedford, MA.)
- 1999-2001 Khang Uk Lee, M.D., Ph.D., Visiting Assistant Professor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (supported through funds from The Catholic University of Korea, and from NIMH funds). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings). (Professor of Psychiatry and Dean, The Catholic University Medical College, Seoul, Korea and currently Professor and Director, Department of Psychiatry, Kangwon National University School of Medicine, Gangwon Provincial Mental Health Center, and Director, Gangwon Suicide Prevention Center, Chief Medical Officer, Kangwon National University Hospital, Gangwon-do, Republic of Korea.)
- 1999- Marek R. Kubicki, M.D., Ph.D., Visiting Assistant Professor, then Assistant Professor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School, followed by Associate Professor, and now Professor, in the Departments of Psychiatry and Radiology, Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, and Associate Director of the Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, and Harvard Medical School. He has been supported by a fellowship from the Kosciuszko Foundation, Poland, and from NIMH funds; received the *Neal Mysell Award*, 2000, for most outstanding poster presentation at the *Eighth Annual Research Day*, Department of Psychiatry, Harvard Medical School; *NARSAD Young Investigator Award* 2001-2003 and 2003-2005; *11th Biennial Winter Workshop in Schizophrenia, Young Investigator Award*, Davos, Switzerland, 2002; *NIMH Schizophrenia Young Investigator Award* 2003; *ACNP Young Investigator Travel Award*, 2004; *William F. Milton Fund Award for Scientific Research*, Harvard University, 2005; elected to Membership of ACNP, 2014. (See Bibliography of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings, and two R01s from NIMH).

- 2000-2001 Jay Nierenberg, M.D., Ph.D., Longwood Residency Training Program, PYG-IV, Department of Psychiatry, Harvard Medical School, and Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (*Ethel Dupont-Warren Fellowship* 2000-2001; *NIMH Young Investigator Award* 2003). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings.)(Currently a Senior Researcher at the Nathan Kline Institute, Orangeburg, NY, and Assistant Professor of Psychiatry at NYU School of Medicine, NY, NY.)
- 2000-2002 Kiyoto Kasai, M.D., Ph.D., Visiting Instructor, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (supported through funds from the University of Tokyo, Japan and then by NIH funds). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings.) (Currently Professor and Head, Department of Neuropsychiatry, University of Tokyo. The Youngest Professor in all of Japan at the time of his appointment.)
- 2000-2003 Toshiaki Onitsuka, M.D., Ph.D., Visiting Instructor, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (supported through funds from Kyushu University Medical School, Fukuoka, Japan, and then by NIH funds). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings.) (Currently Staff member at Fukuoka Prefectural Dazaifu Hospital Psychiatric Clinic and Assistant Professor and Director, Psychiatry Neurophysiology Laboratory, Department of Neuropsychiatry, Graduate School of Medical Sciences, Kyushu University and Kyushu Hospital, Fukuoka, Japan.)
- 2000-2005 Kevin Spencer, Ph.D., Research Fellow in the Clinical Research Training Program in Biological Psychiatry, then Instructor, Assistant Professor, and now Associate Professor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School (*Peter B. Livingston Award* 2000-2001; *National Research Service Award NIMH* 2001-2002; *NARSAD Young Investigator Award* 2002-2004; *Neal Mysell Award*, 2002, for most outstanding poster presentation at the *Tenth Annual Research Day*, Department of Psychiatry, Harvard Medical School; *NARSAD Young Investigator Award* 2004-2006; *13th Biennial Winter Workshop in Schizophrenia*, Senior Investigator Award, Davos, Switzerland, 2006; R01 funding from NIMH 2008-2013). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)
- 2001-2004 Hae Jeong Park, Ph.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, Brockton Division, and Harvard Medical School (supported in part from the Seoul National University, South Korea for year one, and in part from grants from NIH). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.) (Associate Professor and now Professor, Department of Nuclear Medicine, Department of Radiology and Psychiatry, Yonsei University College of Medicine, Seoul, Korea, and Adjunct Professor, Department of Psychiatry, and Adjunct Professor, Biomedical Science & Engineering major of the graduate school at Yonsei University and the Brain Korea 21 Project for Medical Science, and Professor of the Severance Biomedical Science Institute, Yonsei University College of Medicine, South Korea.)
- 2001-2005 Xiangyang Li, M.D., Ph.D., Research Fellow in the Clinical Research Training Program in Biological Psychiatry, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School

(VA Postdoctoral Fellowship in Neuropsychiatry Research/Neurosciences 2002-2005.) Currently he is Addiction Psychiatrist at Tri County Medical Associates, Milford, MA. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings.)

- 2002-2003 Na Young Ji, M.D., Research Associate, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston Healthcare System, and Harvard Medical School. Working part-time evaluating brain structures in schizotypal personality disorder prior to entering residency training in psychiatry (supported in part from funds from the Stanley Medical Research Institute Senior Scholars Program). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations at professional meetings.) (Completed Residency Training in Psychiatry at the University of North Carolina, Chapel Hill, NC -2003-2008, and entered Child Fellowship program in Psychiatry. Now Assistant Professor, Kennedy Krieger Institute, Baltimore, MD.)
- 2002-2003 Anders Brun, M.S., Research Associate, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston Healthcare System, and Harvard Medical School. Working on fiber tracking using diffusion tensor images (supported from a grant from NIH). (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations). Completed his Ph.D. in Medical Imaging in the Department of Biomedical Engineering, Linköping University, Linköping, Sweden. Now Assistant Professor in Image Analysis, Center for Image Analysis, Swedish University of Agricultural Sciences, Uppsala University, Uppsala, Sweden. He is also CEO and part owner of Chorus Cognition AB.
- 2002-2004 Noriomi Kuroki, M.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, VA Boston Healthcare System, and Harvard Medical School (supported in part by The Japanese Society for the Promotion of Science and Scholarship for Studying Abroad, the Welfide Medicinal Research Foundation, and from NIH grant support). *Neal Myself Award*, 2004, for most outstanding poster presentation at the *Twelfth Annual Research Day*, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations). (Currently Instructor, Department of Neuropsychiatry, University of Tokyo Hospital, Tokyo, Japan, and clinician at the National Center of Neurology and Psychiatry – NCNP, Department of Psychiatry, Tokyo, Japan.)
- 2002-2005 Flavia May, B.A., Volunteer, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston Healthcare System, and Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations)
- 2003-2003 Brenda Bemporad, Ph.D., Volunteer, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, VA Boston Healthcare System, Harvard Medical School.
- 2003-2005 Min-Seong Koo, M.D., Ph.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School, visiting from College of Medicine, Kwandong University, Gangnung City, Korea. (Supported from NIH funds.) (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.) (Currently Dean, Catholic Kwandong University School of Medicine, Professor and Chairperson, Department of Psychiatry, Catholic Kwandong University College of Medicine, and Chair and Director of Myung-Ji Hospital, Gangnung City, Korea.)

- 2003-2007 Motoaki Nakamura, M.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School, and Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. *International Congress of Schizophrenia Research Young Investigator Award*, 2005. *Neal Mysell Award*, 2005, for most outstanding poster presentation at the *Thirteenth Annual Research Day*, Department of Psychiatry, Harvard Medical School. *13th Biennial Winter Workshop in Schizophrenia, Young Investigator Award*, Davos, Switzerland, 2006. (Supported in part from a scholarship for studying abroad through the Mitsubishi Pharma Research Foundation, Japan, and supported in part by NIH funds.) (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)(Currently Visiting Researcher, Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan, and Division Chief and Researcher, Kinkou Hospital, Hangawa Psychiatric Center, Yokohama, Japan.)
- 2003- Sylvain Bouix, Ph.D., Postdoctoral Research Fellow (2003-2005), Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School. Instructor (2005-2008), Instructor (2005-2008), and Assistant Professor (2008-present), Psychiatry Neuroimaging Laboratory, Department of Psychiatry Brigham and Women's Hospital, Harvard Medical School, Boston, MA. (Center for Integration of Medicine and Innovative Technology-CIMIT-Solider in Medicine Award and R01 funding from NIMH from 2009 to 2014, 2016-2019, and 2018-2023.) (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)
- 2004-2005 Takeshi Yoshida, M.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School, visiting from National Defense Medical School, Saitama, Japan. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations). (Visiting Researcher, Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan, and now Director and Clinical Psychiatrist, Shonan Yoshida Clinic, Japan.)
- 2004-2006 KangUk Lee, M.D., Ph.D., Visiting Research Fellow, Visiting Scholars Program, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School, and Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School. Visiting from Seoul National University College of Medicine, Seoul, South Korea. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.) (Currently Associate Dean of Graduate Education and Research, Professor, and Head, Department of Psychiatry, Kangwon National University College of Medicine, Chunchon, South Korea.)
- 2004-2005 Paola Mazzoni, M.D., Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Harvard Medical School. Completed her residency training in psychiatry at Duke University Medical School. (Child fellow in Psychiatry at Columbia College of Physicians and Surgeons and currently Psychiatrist in private practice.)
- 2005-2007 Marc Niethammer, Ph.D., Post-Doctoral Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)(Assistant Professor, tenured Associate Professor, and now tenured Professor, Department of Computer Science, University of North Carolina.)

2005-2008	Toshiro Kawashima, M.D., Ph.D., Visiting Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, and Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School, visiting from Kyushu University, Fukuoka, Japan. (Currently, Staff psychiatrist at Fukuoka Prefectural Psychiatric Center Dazaifu Hospital and Associate Professor in the Department of Psychiatry, Saga Medical School, Kyushu University, Fukuoka, Japan.)
2006-2008	Katharina Quintus, M.S., Research Associate, Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School. (Currently computer scientist at Ergonomic & Technologie (E&T), GmBH, Zurich, Switzerland.)
2006-2007	Bumseok Jeong, M.D., Ph.D., Visiting Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Boston VA Healthcare System, Harvard Medical School and Psychiatry Neuroimaging Laboratory, Psychiatry Department, Brigham and Women's Hospital, visiting from Seoul National University, Seoul, South Korea. Moved to Eulji University, Republic of Korea. (Returned to work at the Korean Advanced Institute of Science and Technology, Graduate School of Medical Science & Engineering, Department of Psychiatry, and is currently Associate Professor, KAIST Clinic, Daejeon, Republic of Korea.)
2006-2007	Gudrun Rosenberger, M.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. Visiting from the Department of Psychiatry, Medical University of Innsbruck, Innsbruck, Austria. (Currently Psychiatrist, University Clinical and for General and Social Psychiatry, Medical University of Innsbruck, Innsbruck, Austria.)
2006-2011	David Tate, Ph.D., Lecturer (2006-2008), Instructor (2008-2010), Assistant Professor (2010-2011), Department of Radiology, Brigham and Women's Hospital, and Harvard Medical School, and member of the Psychiatry Neuroimaging Laboratory. (Currently Associate Professor of Research, Missouri Institute of Mental Health, University of Missouri, St. Louis, MO.)
2006-2019	Jennifer Fitzsimmons, M.D., Post-Doctoral Research Fellow, and now Instructor (2009), Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School.
2006-	Zora Kikinis, M.D., Post-Doctoral Research Fellow, Instructor, and now Assistant Professor in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. (2006-2009 <i>Reentry to Biomedical Research</i> , supplement to NIMH R01 Computerized Image Processing Analyses in Schizophrenia; <i>NARSAD Young Investigator Award</i> , 2008-2010.) <i>Harvard Catalyst Clinical Research Center Junior Investigator Laboratory Support Award</i> (2011).
2007-2007	Aristotle Voineskos, M.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. Visiting from Toronto University School of Medicine, Toronto, CA, where he was in his 4 th year resident in Psychiatry. He completed his 5 th year residency training in 2008 and in 2007 he received the <i>American Association of Geriatric Psychiatry Stepping Stone Award</i> , the <i>Society of Biological Psychiatry Travel Scholarship</i> , a <i>Robin Hunter Memorial Award for Best Resident Research Project at the Department of Psychiatry, University of Toronto</i> , the <i>Best Resident in Geriatric Psychiatry Award in the Department of Psychiatry, University of Toronto</i> , and the <i>World Congress of Psychiatric Genetics Travel Scholarship</i> . In addition, in 2008 he was selected for <i>Research Colloquium for Junior Investigators (American Psychiatric Association)</i> , the <i>Best Presentation by a</i>

Resident - 34th Annual Harvey Stancer Research Day, University of Toronto, and he received a Canadian Institutes of Health Research (CIHR-2008-2011) Clinical Scientist Award (Phase I) for a project entitled “Identifying Genetic Vulnerabilities that Mediate Differences in Connectivity in Schizophrenia Across the Adult Lifespan: A Diffusion Tensor Imaging and Genetics Study”. APIRE/AstraZeneca Young Minds in Psychiatry Award, the American Psychiatric Association, 2009. (Completed residency training in Psychiatry, Toronto University School of Medicine, Toronto, Canada, was Instructor in the Department of Psychiatry, Toronto University School of Medicine, then Assistant Professor in the Department of Psychiatry, Institute of Medicine, University of Toronto, and Koerner New Scientist and Head of the Kimel Family Translational Imaging-Genetic Laboratory, followed by Associate and full Professor of Psychiatry, Department of Psychiatry, University of Toronto, and Director of the Slaight Family Centre for Youth in Transition, and Head of the Kimel Family Translational Imaging-Genetics Laboratory, Centre for Addiction and Mental Health, Toronto, Canada.

- 2007-2008 Jungsu Oh, Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, and Harvard Medical School. Visiting from Department of Nuclear Medicine, Seoul National University College of Medicine, Seoul, South Korea (Currently, Associate Professor, Department of Nuclear Medicine, Asan Medical Center University of Ulsan College of Medicine, Seoul, Republic of Korea.)
- 2007-2008 Lucas Torres, M.D., Post-Doctoral Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, and Harvard Medical School. Returned to Argentina to private practice.
- 2007-2010 William Burch, M.D., Ph.D., Staff Psychiatrist and Instructor, Department of Psychiatry, VA Boston Healthcare System, Brockton, MA (2007-2009) and then Staff Psychiatrist, Department of Psychiatry, VA Bedford Healthcare System, and Instructor, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, and Harvard Medical School. (Currently Assistant Professor, Department of Psychiatry, Dartmouth Medical Center, Hanover, NH, and Physician, White River Junction VA Medical Center, Vermont.)
- 2007- Yogesh Rathi, Ph.D., Post-Doctoral Research Fellow (2007-2008), Instructor (2008), Assistant Professor (2009), and Associate Professor (2016), Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, and Harvard Medical School (*Information System and Research Council grant award; "Diffusion Modeling and Fiber Cup Award" for the best tractography algorithm competition held during MICCAI – Medical Image Computing and Computer Assisted Intervention Conference, 2009*). *October 2012: New and Notables: The NIMH has [cited Dr. Rathi's](#) R01 recently funded research among new investigators. This project will use new computational and acquisition approaches in order to shorten the time needed for conducting advanced diffusion imaging. 2013: selected to participate in the course for HMS Leadership Development for Physicians and Scientists. 2019: BWH Physicians Organization Pillar Awards: Research Innovation Award.*
- 2008-2008 Francisco Romo-Nava, M.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, Harvard Medical School. Visiting and funded from the National Institute of Psychiatry, Mexico City, Mexico. 1st place for poster at the poster session, *XXI National Meeting of the Mexican Psychiatric Association*, Acapulco, Mexico, November 13-20th, 2009. (Currently, researcher in the Department of Psychiatry and Mental Health, Faculty of Medicine, National Autonomous University of Mexico, and staff physician National Institute of Psychiatry, Mexico City, Mexico.)

- 2008-2009 Julien de Siebenthal, Ph.D., Post-Doctoral Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School (see CV for publications). Post-Doctoral Research Fellow, Children's Hospital, Boston, MA. (Currently, Co-Founder and contractor at Smart-Tree, Bern Area, Switzerland.)
- 2008-2010 Sun Woo Lee, M.D., Visiting Associate Professor, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. Visiting from the Department of Psychiatry, Chungnam National University Hospital, Chungnam National University College of Medicine, Gung-gu, Daejeon, South Korea. Funded from Chungnam National University Hospital, Chungnam National University College of Medicine, Gung-gu Daejeon South Korea. (Currently Professor, Department of Mental Health, Chungnam National University College of Medicine, Gunggu Daejeon, Republic of Korea.)
- 2008-2010 Thomas Whitford, Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Harvard Medical School. Visiting from University of Sydney, Sydney, Australia. Funded from a National Health and Medical Research Council Australian Government (MHMRC) Training Fellowship (Honorable mention, SIRS Contest Winning Essay, *2nd Schizophrenia International Research Society Conference*). (Recipient a *NARSAD Young Investigator Award 2010-2012*.) (See also CV for publications). (Currently, Assistant Professor, Psychology Department, University of Sydney, Sydney, Australia.)
- 2008-2011 An Nguyen, M.D., Resident in Psychiatry, South Shore Residency Training Program, VA Boston Healthcare System, Brockton, and Harvard Medical School, Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and now Clinical Fellow in Psychiatry, Children's Hospital, Harvard Medical School. (Mysell Best Poster Finalist, 2009.) (See also CV for publications.) (Currently, Adolescent and Child Psychiatrist in San Jose, CA.)
- 2008-2011 Takeshi Asami, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and the Clinical Neuroscience Division, Laboratory of Neuroscience, VA Boston Healthcare System, and Department of Psychiatry, Harvard Medical School. Funded from the Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan. (Currently Assistant Professor, Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan.)
- 2008-2011 Toshiyuku Ohtani, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and the Clinical Neuroscience Division, Laboratory of Neuroscience, VA Boston Healthcare System, and Department of Psychiatry, Harvard Medical School. Funded from Department of Neuropsychiatry, Kyushu University, Maidashi, Higashiku, Fukuoka, Japan. Finalist, Top Poster Award *Society for Biological Psychiatry*, 2010, New Orleans, LA. (Currently, Associate Professor, Safety and Health Organization, Chiba University, Inage-ku, Chiba, Japan.)
- 2008-2012 Jason Schneiderman, Ph.D., Post-Doctoral Research Fellow, Clinical Research Training Program in Biological Psychiatry, and Post-Doctoral Research Fellow, Department of Psychiatry, Harvard Medical School, and member of the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School (see CV for publications). *International Congress of Schizophrenia Research Young Investigator Award*, 2009. (Currently, Behavioral Medicine Scientist and Researcher at Wyle and NASA.)

- 2008-2017 Peter Savadjiev, Ph.D., Post-doctoral Research Fellow, then Instructor, and now Assistant Professor, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. Recipient of the *2009 MICCAI Young Scientist Award* for the best paper. Also recipient of a NARSAD Young Investigator Award (2015-2017), a prestigious award granted from the Brain and Behavior Research Foundation (See also CV for publications.)
- 2008- Alexander P. Lin, Ph.D., Instructor and now Assistant Professor of Radiology, Center for Clinical Spectroscopy, and Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School. Recipient of the *BWH Biomedical Research Institute Clinical Research Excellence Award* (2011), and the *Harvard Medical School Young Mentor Award* (2014). He has also been supported by a Department of Defense Congressionally Directed Medical Research Program award, and is part of an NIA study of Chronic Traumatic Encephalopathy as well as a Department of Defense Psychological health and Traumatic Brain Injury Research Program award for investigating Tau Imaging of Chronic Traumatic Encephalopathy. He has also completed an Innovations Award from the *Center for Integration of Medicine and Innovative Technology* (CIMIT) as well as completing a project funded by Siemens. Draper Laboratory funded him for a *University Research and Development Grant* and he received a *Harvard Catalyst Pilot Grant Award* entitled "Noninvasive Cerebral Glutamate Monitoring in Veterans with Traumatic Brain Injury."
- 2009-2009 Inga Koerte, M.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, (see also 2011-present) Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. Funded from Ludwig-Maximillan-University, Munich, Germany and by the Robert Bosch Foundation - stipend for fast-track program for excellence and leadership skills for outstanding women in science, 20 stipends given in the entire country. (See CV for publications; currently completing her residency training in neuroradiology.)
- 2009-2010 Hsiao Piau Ng, Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. Funded from the Agency for Science, Technology and Research (A*STAR), Singapore Bio-imaging Consortium, Singapore. Recipient of an *NIMH Young Investigator Travel Award* to attend the *2nd Schizophrenia Scientific Conference* Sponsored by the *Schizophrenia International Research Society* (2010), one of top 3 finalists for A*STAR investigatorship (SERC), October, 2010. (Currently, research, Mechanistic Systems Biology NMR Group, Singapore Bioimaging Consortium – Agency of Science Technology and Research, Singapore.)
- 2009-2011 Toshiaki Onitsuka, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and the Clinical Neuroscience Division, Laboratory of Neuroscience, VA Boston Healthcare System, and Department of Psychiatry, Harvard Medical School. Funded from the Department of Psychiatry, Yokohama City University School of Medicine, Yokohama, Japan. (Currently Associate Professor of Neuropsychiatry in the Department of Clinical Medicine, Kyushu University and Kyushu University Hospital, Fukuoka, Japan.)
- 2009-2011 Sang-Hyuk Lee, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and the Clinical Neuroscience Division, Laboratory of Neuroscience, VA Boston Healthcare System, and Department of Psychiatry, Harvard Medical School. Funded from CHA University School of Medicine, Seoul, South Korea. (Currently Associate Professor and Department Chairperson, Department of Psychiatry, Bundang CHA Medical Center, CHA University School of Medicine, and Director of Clinical Trials in CHA Bundang Medical Center, Yatap, Bundang, Seongnam, Kyunggi, Republic of Korea.)

- 2009-2011 Yukiko Saito, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. Funded from Kansai Medical University, Suita, Osaka, Japan. (Currently, Assistant Professor of Neuropsychiatry, Kansai Medical University, Osaka, Japan.)
- 2009-2014 Taiga Hosokawa, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, and the Clinical Neuroscience Division, Laboratory of Neuroscience, VA Boston Healthcare System, and the Department of Psychiatry, Harvard Medical School. Funded from the Department of Psychiatry, University of Tokyo, Tokyo, Japan. (See also Dr. Hosokawa's CV for publications.) (Currently, Vice President of Tsuchida Hospital, affiliated Hospital of Tokyo University, Tokyo, Japan.)
- 2009-2015 Hesham Hamoda, M.D., Clinical Fellow in Psychiatry, Instructor, and now Assistant Professor, Children's Hospital, Harvard Medical School, and Associate Research Fellow, Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital, Harvard Medical School. Recipient of a *Dupont-Warren Fellowship*, Harvard Medical School, and a *Livingston Fellowship Award*, Harvard Medical School. Recipient of an *American Psychiatric Association Junior Investigator Award* (2011). Vice-President for the International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP)
- 2009- Ofer Pasternak, Ph.D., Post-doctoral Research Fellow, then Instructor, and Assistant Professor in Psychiatry and Radiology, now Associate Professor in Psychiatry and Radiology, and Director of Neuroscience Image Computing, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. Funded through a *Fulbright Scholarship* and through grant funds to Drs. Shenton and Westin, as well as from a *NARSAD Young Investigator Award*, 2013-2015, and R01.
- 2009-2011 Po Chang Hsu, Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, and Master's degree Candidate Neurobiology, Harvard Extension Division, Harvard University. (Currently, in medical school).
- 2010-2011 Marlene Wigand, Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Medical student from the University of Munich, Germany. Funded through a scholarship awarded to only the top 1% of students, the *studienstiftung des deutschen volkes*. (Currently, residency training program in Otorhinolaryngology, Ludwig-Maximillan-University, Munich, Germany).
- 2010-2011 Christian Clemm Von Hohenberg, Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Medical Student funded from the University of Munich, Germany, through a scholarship awarded to only the top 1% of students, the *studienstiftung des deutschen volkes*. (Currently, Medical Student at the Ludwig-Maximillan-University, Munich, Germany).
- 2010-2011 Karl Egger, M.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, MA. Funded from the University of Innsbruck School of Medicine, Innsbruck, Austria. (Currently, Consultant, Department of Neuroradiology, Universitätsklinikum Freiburg, Freiburg, Germany).

2010-2012	Meina Quan, M.D., Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, and Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, VA Boston Healthcare System, Brockton, MA and Harvard Medical School. From Nankai University School of Medicine, Tianjin, The People's Republic of China. Dr. Quan's abstract submitted for <i>The Society of Biological Psychiatry</i> (SOBP), with the title "Abnormalities of White Matter Tracts between Rostral Middle Frontal Gyrus / Inferior Frontal Gyrus and Striatum in First-Episode Schizophrenia", was selected as one of 47 out of over 600 abstracts, to be considered for the Top Poster Award (2011). Recipient of <i>Outstanding Ph.D. Graduate</i> Nankai University, The People's Republic of China. Recipient of a Livingston Award (2012). Recipient of a Travel Award in 2012, one of 36 selected from 240 applicants, to participate in the <i>3rd Biennial Schizophrenia Research Conference</i> to be held in Florence, Italy, and sponsored by the <i>Schizophrenia International Research Society</i> (SIRS). (Currently, Post-Doctoral Research Fellow, Brain Imaging Center, McLean Hospital, Belmont, MA.)
2010-2012	Tomohide Roppongi, M.D., Ph.D., Visiting Research Fellow, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, VA Boston Healthcare System, Brockton, MA and Harvard Medical School and Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Funded from Hirosaki University School of Medicine, Hirosaki, Japan.
2010-2013	Damien Wasserman, Ph.D., Post-doctoral Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, and Laboratory of Mathematical Imaging, and Surgical Planning Laboratory, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School. (Currently, Assistant Professor and Senior Scientist at INRIA and now Professor (Institut National de Recherche en Information at en Automatique), Sophia-Antipolis Mediterance, France.)
2011-2012 (See also 2014)	Yingying Tang, Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Visiting from Department of Biomedical Engineering Shanghai Jiao Tong University, Shanghai, China, where she is currently Associate Professor.
2011-2012	Calegero Montedoro, medical and Ph.D. school candidate, Université Catholique de Louvain School of Medicine, Louvain-la-Neuve, Belgium. (Currently, research Psychological Sciences Research Institute, Université Catholique de Louvain School of Medicine).
2011-2015	Julie Stamm, Pre-Doctoral Student, Boston University School of Medicine, Anatomy and Neurobiology Ph.D. Program. She received her PhD in 2015. She was supported, in part, by a <i>F31 Ruth L. Kirschstein National Research Service Award for Individual Pre-Doctoral Students</i> (F31NS 081957), entitled: "Frontal Lobe Neuroimaging as a Biomarker of Chronic Traumatic Encephalopathy." (See publications in CV.) (Currently, Post-Doctoral Fellow in the Department of Radiology, School of Medicine and Public Health, University of Wisconsin Hospital and Clinics, Madison, Wisconsin).
2011-	Inga Koerte, M.D. Visiting Lecturer, and then Visiting Professor, and Senior Research Associate in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, from Ludwig-Maximilians-University, Munich, Germany. <i>LMU Förderung für Forschung und Lehre, LMU Munich grant for Young Investigators</i> (2009-2011); <i>Robert-Bosch-Foundation, Germany, stipend for 2-year FAST TRACK Program for Excellence and Leadership Skills for Outstanding Women in Science</i> (2011-2013); <i>Deutsche Gesellschaft für Neuroradiologie, Germany,</i>

Marc-Dünzl-Prize, Young Investigator Award (2011); Deutscher Akademischer Austauschdienst, Germany, Scholarship for 6-month Research Fellowship (2011-2012); Else-Kröner-Fresenius-Stiftung, Germany, 2-year Research Fellowship, 1 out of 3 stipends of the Else-Kröner Memorial Award (2012-present). Currently she is also Professor of Neurobiological Research, Child and Adolescent Psychiatry, Ludwig-Maximilians-University of Munich, Munich Germany (2014).

- 2011-2016 Noah Philips, M.D., Assistant Professor of Psychiatry and Human Behavior (Clinical), Brown University and Providence VAMC. Received a VA *Career Development Award* (2013-2018) entitled “PTSD and the Default Network: Developing Imaging Phenotypes”, with Dr. Shenton as a one of his Co-Mentors.
- 2011-2018 Kaloyan Tanev, M.D., Assistant Psychiatrist in Psychiatry, Massachusetts General Hospital, and Instructor, Harvard Medical School. Received a K23 MH 097844 entitled “Cognitive Processing Therapy for PTSD with Co-Morbid Mild Traumatic Brain Injury” (2013-2018), with Drs. Shenton and Roger Pitman as Co-Mentors.
- 2012-2012 Fan Zhang, Ph.D., Professor in Computer Science and Engineering, Henana University, China, Visiting Professor, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women’s Hospital, Harvard Medical School, Boston MA, for 6 months to learn image processing pipeline for diffusion tensor imaging and to assist in algorithm development with other computer scientists. (Currently, Professor in Computer Science and Engineering, Henana University, China).
- 2012-2013 William Panenka M.D., M.Sc., FRCPS (Neurology and Psychiatry), Visiting Post-doctoral Research Fellow in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Harvard Medical School, Boston, MA. He is a Neurologist from the University of British Columbia, Vancouver, British Columbia, Canada, who began focusing in 2011 on MRI imaging correlates of addiction and disease in a cohort of socially disadvantaged, largely drug addicted individuals in Vancouver. He was in the PNL to learn more about traumatic brain injury (TBI) and more sophisticated MRI techniques that are useful in understanding TBI. (Currently Assistant Professor, University of British Columbia, Canada, Member British Columbia Provincial Neuropsychiatry Program).
- 2013-2013 Elif Gürdeniz. Observership in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School. Fifth year medical student at Istanbul University, Cerrahpaşa Medical Faculty, Istanbul, Turkey.
- 2013-2013 Ünsal Aydinoglu, M.D. Observership in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School. Psychiatry Resident at Atatürk University, Faculty of Medicine, Department of Psychiatry, Erzurum, Turkey.
- 2013-2013 Pedro Rosa, M.D. Observership in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School. Psychiatry Residency (2011-2014), Institute of Psychiatry at the University of São Paulo Medical School, São Paulo, Brazil.
- 2013-2013 Katharine Innsbrinker, M.D. Observership in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School. Fifth year resident in Psychiatry, University of Gethenborg, Gethenborg, Sweden.

2013-2013	Beth Ripley, M.D., Ph.D. Research Fellow in the Psychiatry Neuroimaging Laboratory, Departments of Psychiatry and Department of Radiology, Brigham and Women's Hospital, Harvard Medical School. Chief Resident in Radiology, Brigham and Women's Hospital, Harvard Medical School.
2013-2014	Takeshi Sasaki, M.D. Visiting Post-doctoral Research Fellow in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. He received his training from the Tokyo Medical and Dental School (TMDU), and is sponsored by the TMDU-HMS exchange program entitled "the Strategic Young Researcher Overseas Visits Program for Accelerating Brain Circulation" sponsored by the <i>Japan Society for the Promotion of Science</i> . Dr. Shenton was selected as one of eight professors at HMS to be a part of this program as a mentor. Dr. Sasaki has a background in PET imaging and at the PNL he will pursue his interest in diffusion MRI. (Currently, Medical Director, Department of Psychiatry, Toshima Hospital, Japan).
2013-2014	Ahmed Adel Fouad Eid, Observership in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry and Department of Radiology, Brigham and Women's Hospital, Harvard Medical School. Last year in medical school, Faculty of Medicine Alexandria University, Alexandria, Egypt.
2013-2014	Ahmed Makloutf, M.D, Observership in the Psychiatry Neuroimaging Laboratory, Departments of Psychiatry and Department of Radiology, Brigham and Women's Hospital, Harvard Medical School (graduate from Ain Shams Medical school in Cairo, Egypt).
2013-2019	Elisabetta Del Re, Ph.D., Assistant Professor in Psychiatry, Harvard Medical School, VA Boston Healthcare System and the Psychiatry Neuroimaging Laboratory, Brigham and Women's Hospital.
2014-2014	Marc Muehlmann, M.D. Post-doctoral Research Fellow in the Psychiatry Neuroimaging Laboratory, Departments of Psychiatry and Radiology, Brigham and Women's Hospital, Harvard Medical School. Received his M.D. from Ludwig-Maximilian University, Munich, Germany, in 2014. (Currently, in the Residency Training Program in Radiology at the Ludwig-Maximilian University of Munich, Munich, Germany).
2014-2015	Yingying Tang, Ph.D., Visiting Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Visiting from Department of Biomedical Engineering Shanghai Jiao Tong University, Shanghai, China, where she is currently Associate Professor.
2014-	Ann Shinn, M.D., Assistant Professor, Department of Psychiatry, McLean Hospital, and Co-Medical Director, McLean On Tract (first episode program), and Director of Clinical Research, Schizophrenia and Bipolar Disorder Research Program. Joined the Psychiatry Neuroimaging Laboratory to learn diffusion tensor imaging as part of her K23 NIMH award (2014-2019), entitled "Auditory, Speech, and Cognitive Networks in Hallucinators Across the Psychosis Spectrum", Co-Mentors: Drs. Dost Ongur, Martha Shenton, John Gabrieli, and Randy Buckner. Awards and honors include: 2009-2011 Clinical Investigator Training Program, Harvard/MIT Health Science and Technology; 2009-2012 Dupont-Warren Fellowship; 2009-2012 APRIE/Lilly Psychiatric Research Fellowship; 2011-2012 Eleanor and Miles Shore Harvard Medical School Fellowship; 2011-2012 NARSAD Young Investigator Award; 2012-2014 T32 Stuart T. Hauser Training Program in Biological & Social Psychiatry.

2014-	Amanda Lyall, Ph.D., Post-Doctoral Research Fellow, and then Instructor, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital and Harvard Medical School. Funding from 2014-2016 from the Stuart T. Hauser Training Program in Biological & Social Psychiatry; 2016-2017 Peter B. Livingston Fellowship Award; 2017 World Federation of Society of Biological Psychiatry (WFSBP) Young Investigator Award to attend the 13 th World Congress of Biological Psychiatry, Copenhagen, Denmark; 2017 Young Investigator Best Poster Award, 13 th World Congress of Biological Psychiatry, Copenhagen, Denmark; 2017 American College of Neuropsychopharmacology (ACNP) Travel Awardee.
2015-2015	Marucela Juana Uscarmayta Avyar, B.A., Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston MA. Supported through a Master's Degree program in Medical Sciences & Clinical & Translational Research Concentration in Neuropsychiatry and Behavioral Disorders in First Nations, a Multidisciplinary Training Program sponsored by Fogarty International Research Awards, University of South Florida (PI: Dr. Gabriel de Erausquin).
2015-2016	Christopher LePage, Research Fellow, Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. PhD candidate in the PhD Program in Psychology at the University of Ottawa, Canada. Training in neuropsychology with experience in brain trauma injury, rehabilitation, and brain imaging. Funded from the Canadian government to work on image processing in mild TBI.
2016-2016	Juan Toranzo, B.A., Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston MA. Supported through a Master's degree program in Medical Sciences & Clinical & Translational Research Concentration in Neuropsychiatry and Behavioral Disorders in First Nations, a Multidisciplinary Training Program sponsored by Fogarty International Research Awards, University of South Florida (PI: Dr. Gabriel de Erausquin).
2015-2017	Jung Sun Lee, M.D., Ph.D., Visiting Assistant Professor, Department of Psychiatry, Psychiatry Neuroimaging Laboratory. From the University of Ulsan College of Medicine, Asan Medical Center, Seoul, Republic of Korea.
2016-2018	Jeffrey Guenette, M.D. Research Fellow, Department of Psychiatry, Psychiatry Neuroimaging Laboratory and Harvard Medical School. Diagnostic Radiology Resident at Brigham and Women's Hospital, Diagnostic Radiology Residency Clinician-Scientist Research Pathway program.
2016-2017	Li Yin, M.D., Ph.D., Visiting Assistant Professor, Department of Psychiatry, Psychiatry Neuroimaging Laboratory. From West China Hospital of Sichuan University; received an award to perform research here from West China Hospital.
2016-	Sinead Kelly, Ph.D. Post-doctoral Research Fellow, and now Instructor in the Department of Psychiatry, Psychiatry Neuroimaging Laboratory and Harvard Medical School. From the Trinity College Dublin, Ireland. Livingston Award, Department of Psychiatry, Harvard Medical School, 2018. Travel Awardee for the <i>2019 Congress of the Schizophrenia International Research Society</i> taking place in Orlando, Florida from 10-14, April 2019.
2016-2019	Guusje Collin, M.D., Ph.D. Post-doctoral Research Fellow, Department of Psychiatry, Psychiatry Neuroimaging Laboratory and Harvard Medical School. Marie Curie Global Fellowship from the European Commission (Grant no. 749201) to come to the US from

the Department of Psychiatry, University of Utrecht School of Medicine, Utrecht, The Netherlands. *ACNP Travel Awardee*, December 5-13, 2018, taking place in Hollywood, FL.

- 2016-2017 Huang Huan, M.D. Pre-doctoral Research Fellow, Department of Psychiatry, Psychiatry Neuroimaging Laboratory and Harvard Medical School. From School of Medicine at Shanghai Jio Ton University where she is currently a Ph.D. candidate in Psychiatry.
- 2016-2017 Ana Maria Rivas-Grajales, M.D., M.Sc. Post-doctoral Research Fellow, Department of Psychiatry, Massachusetts General Hospital and Psychiatry Neuroimaging Laboratory Brigham and Women's Hospital and Harvard Medical School. Her degrees are from the Universidad del Valle, Colombia. She is a fellow in the International Research Institute.
- 2017-2017 Itatí Branca, B.S. National University of Córdoba, Argentina, and Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston MA. Supported through a Master's Degree program in Medical Sciences & Clinical & Translational Research Concentration in Neuropsychiatry and Behavioral Disorders in First Nations, a Multidisciplinary Training Program sponsored by Fogarty International Research Awards, University of South Florida (PI: Dr. Gabriel de Erausquin).
- 2018-2018 Ana Gareca Arizaga, M.S., Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston MA. Supported through a Master's Degree program in Medical Sciences & Clinical & Translational Research Concentration in Neuropsychiatry and Behavioral Disorders in First Nations, a Multidisciplinary Training Program sponsored by Fogarty International Research Awards, University of South Florida (PI: Dr. Gabriel de Erausquin).
- 2018-2018 Elena Bonke, Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Scholarship from the University of Paderborn, Germany where she is a Master's degree student. She will work with Drs. Inga Koerte and Martha Shenton.
- 2018-2019 Tamires Aravjo Zanão, Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. PhD candidate at the University of Campinas, San Paulo, Brazil. Supported by the San Paulo Research Foundation.
- 2018-2019 Philine Rojczyk, M.S., Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Medical student at the University of Hamburg, Hamburg, Germany.
- 2018-2019 Mina Eghbalian, Research Trainee in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Fourth year medical student working with Professor Christos Mulert at the University of Hamburg, Hamburg, Germany.
- 2018-2019 Saskia Steinmann, Ph.D., Post-Doctoral Research Fellow in the Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Post-doctoral Research Fellow in the Laboratory of Professor Christoph Mulert at the University of Hamburg, Hamburg, Germany.
- 2019-2019 Ana Pinheiro, Ph.D., Visiting Assistant Professor Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA. Fulbright Scholar Award from the Faculty of University of Lisbon, Lisbon, Portugal.

Examiner of Thesis

- 2015 Aleksandra Klimova, Graduate Student in the Ph.D. program in School of Psychology, Faculty of Sciences, The University of New South Wales, Sydney, Australia, April, 2015. Thesis, "Brain White Matter in the Context of Traumatic Stress: A Diffusion Tensor Imaging Study."

Thesis Supervision of Graduate Students

- 2012-2015 Julie Stamm, Graduate Student in the Anatomy and Neurobiology Ph.D. Program, Boston University Medical School, Thesis "The effects of age of first exposure to repeated head impacts through tackle football on later-life white matter structural integrity on neurobehavioral function."
- 2013-2014 Talis M. Swisher, A.B. Masters of Science in Biomedical Sciences student at Tufts University School of Medicine, Public Health & Professional Programs. Reader for thesis entitled: "White Matter Integrity of the Cingulum Bundle in Healthy Aging".
- 2017-2019 Sean Tobyn, Graduate Student in Ph.D. Program in the Department of Psychological and Brain Science, Boston University, Thesis "Mapping sensory-biased cognition across prefrontal cortex: Cognitive control, attention, and repetitive head injury."
- 2019-2020 Cara Lynn Kim, medical school student at the Ludwig-Maximilians-Universitat Munchen Munich, Germany. Thesis supervision for medical doctorate (Dr. Med.) degree; Thesis Title: "Imaging of Chronic Traumatic Encephalopathy (CTE) - Longterm effects of playing football on the function and structure of the brain."

Thesis Supervision of Undergraduates

- 1991-1992 I-han Chou, Class of 1992, Department of Psychology, Harvard College. Senior Honors Thesis: "A magnetic resonance imaging study of the cingulate gyrus in schizophrenia". This Summa cum laude thesis was awarded the Thomas Temple Hoopes Prize for Excellence in the Work of an Undergraduate and Faculty Member. (Received, a Ph.D. in the Cognitive Neuroscience Program at the Massachusetts Institute of Technology.) (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)
- 1994-1995 Robert Donnino, Class of 1995, Department of Psychology, Harvard College. Senior Honors Thesis: "The parietal lobes and schizophrenia: A quantitative magnetic resonance imaging study." This thesis was awarded *Magna cum laude*. This paper was published in the *American Journal of Psychiatry* (1999) with Rob as second author. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.) Graduated from Medical School at SUNY-Stony Brook, completed residency training in internal medicine at SUNY-Stony Brook, and is practicing medicine in New York.
- 1997-1998 Janos Zahajsky, Class of 1998, Cognitive Neuroscience Major, Departments of Psychology and Biology, Harvard College. Senior Honors Thesis: "An Analysis of Volumetric Differences Between the Fornices of Schizophrenic and Normal Subjects Using MRI Imaging and Specialized Image Processing Software." This thesis was awarded *Magna cum laude*. This work was published in *Schizophrenia Research* (2001), where Janos was first author. As a medical school at Mount Sinai, he received a *Howard Hughes Medical Institute and the National Institute of Health Research Scholars Program Fellowship* to conduct biomedical research at NIH 2000-2001. He then completed medical school at Mount Sinai, and his residency training in the Psychiatry Residency Training

Program at Massachusetts General Hospital, Harvard Medical School. Currently he is staff psychiatrist at UCSF. (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations.)

- 2001-2002 Laura Wiegand, Class of 2002, Cognitive Neuroscience Major, Departments of Psychology and Biology, Harvard College. Senior Honors Thesis: "Prefrontal Cortical Thickness Abnormalities in Schizophrenia: A Magnetic Resonance Imaging Study." This thesis was awarded *Magna plus cum laude*. (One paper from this work is published in *Biological Psychiatry*, with Laura as first author, and the second paper from this work is published in the *American Journal of Psychiatry*. She is currently a medical student at the University of Pittsburgh.) (See Bibliography portion of CV for first author and co-authorship on papers, abstracts and presentations).
- 2001-2002 Kathleen Rose, Class of 2002, Cognitive Neuroscience Major, Departments of Psychology and Biology, Harvard College. Senior Honors Thesis: "Morphologic Analysis of the Temporal Pole in Schizotypal Personality Disorder Using Magnetic Resonance Imaging." This thesis was awarded *Magna cum laude*.
- 2012-2013 Jessica Zuo, Class of 2013, Neurobiology Major, Departments of Neurobiology and Neuroscience, Harvard College. Senior Honors Thesis: "Clinical Symptoms Correlate with White Matter Abnormalities in First-Episode Schizophrenia Patients". This thesis was awarded *Magna plus cum laude*. Paper recently submitted and accepted (2015) to *Schizophrenia Bulletin* for publication.
- 2013-2014 Wendy Melissa Coronado, Class of 2014, Neurobiology Major, Department of Neurobiology and Neuroscience, Harvard College. Senior Honors Thesis: "Role of the hypothalamus in schizophrenia." This thesis was awarded *Magna cum laude*.

Independent Study Supervision of Undergraduates

- 1981-1982 Christine Gasperetti, Department of Psychology, Harvard College, Cambridge, MA. (co-author publication in *Schizophr Bull*, 1986;12(3):484-495).
- 1982-1983 Ellyn Kestnbaum, Department of Psychology, Harvard College, Cambridge, MA (First author publication in *Am J Psychiatry*, 1988;145:944-949).
- 1982-1983 Andrew Busch, Department of Psychology, Harvard College, Cambridge, MA.
- 1993-1994 Michelle Ballard, Department of Psychology, Wellesley College, Wellesley, MA. Worked for Independent Study credit.
- 1993-1994 Stephanie Rose, Department of Psychology, Wellesley College, Wellesley, MA. Worked for Independent Study credit.
- 1994-1995 Emma Kwong, Department of Psychology, Wellesley College, Wellesley, MA. Worked for Independent Study credit.
- 1994-1995 Laura Gravelin, Department of Psychology, Wellesley College, Wellesley, MA. Worked for Independent Study credit.
- 1997-1998 Michelle Harper, Department of Psychology, Harvard College, Cambridge, MA. Volunteered in the laboratory.
- 2000-2000 Elizabeth David, Department of Psychology, Wellesley College, Wellesley, MA. Volunteered in the laboratory then became research assistant, went to medical school.

2000-2000	Amanda Knowles, Department of Psychology, Wellesley College, Wellesley, MA. Worked for Independent Study credit.
2012-2015	Jonathan Duskin, Boston University, Class of 2015, independent study.
2013-2014	Marcia Frimpong, Wellesley College, Class of 2015, independent study.
2013-2014	Helen Baker, Boston University, Class of 2014, independent study.

Other Advisor and Supervisory Responsibilities

1988-	James Levitt, M.D., Instructor, and now Associate Professor, Clinical Neuroscience Division, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School and Psychiatry Neuroimaging Laboratory, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School. (Milton Award for Scientific Research, Harvard University; VA Merit Award for research studies in schizophrenia.) (See Bibliography portion of CV for first author and co-authorship on numerous abstracts, papers, and presentations).
1991-1992	Jill Goldstein, Ph.D., retraining for neuroimaging and part of the Clinical Research Training Program, Department of Psychiatry, Harvard Medical School. Now Professor and Director of Women's Health Research, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, and Director of the Women's Health Center, Brigham and Women's Hospital. (See Bibliography portion of CV for co-authorship on abstracts, papers, and presentations.) (Currently, Professor of Psychiatry and Medicine, and Director of Research for The Connor's Center for Women's Health, Brigham and Women's Hospital, Harvard Medical School).
1992-1995	Dorothy Holinger, Ph.D., Instructor, Department of Psychiatry, Harvard Medical School. (See Bibliography portion of CV for first and co-authorship on papers, and presentations). (Currently in private practice).
1992-	Margaret Niznikiewicz, Ph.D., Assistant Professor, and now Associate Professor, Clinical Neuroscience Division and Director of Event Related Potential Studies at MMHC Imaging Laboratory, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (<i>NARSAD Young Investigator Award</i> 1994-1996). Is co-PI on a VA MERIT Award and has received R01 grant funding from NIMH for her event-related potential studies of schizophrenia. (See also Bibliography portion of CV for first author and co-authorship on numerous abstracts, papers, and presentations).
1992-2013	Dean Salisbury, Ph.D., Post-doctoral Research Fellow, then Assistant and Associate Professor in the Department of Psychiatry, and Director of the Cognitive Neuroscience Laboratory, McLean Hospital, Harvard Medical School, and Director of First Episode Event Related Potential Studies, Laboratory of Neuroscience, Department of Psychiatry, Harvard Medical School (<i>NIMH Schizophrenia Young Investigator Award</i> 1993; <i>James S. McDonnell Foundation Award in Cognitive Neuroscience</i> 1993-1995; <i>NARSAD Young Investigator Award</i> 1995-1997; <i>NARSAD Young Investigator Award</i> 1997-1999). Has received R01 grant funding from NIMH for his event-related potential studies of schizophrenia. Now Associate Professor, Department of Psychiatry, Pittsburgh School of Medicine, Pittsburgh, PA. (See also Bibliography of CV for first author and co-authorship on numerous abstracts, papers, & presentations).

Supervision of Research Assistants

Most of the RA's listed below have entered either a Ph.D. program or medical school, and many have made important contributors to the research work which has been recognized by co-authorship on publications.

1984-1985	Michael Bachop	2002-2005	Lisa Lucia
1985-1986	Ruth Ballinger	2003-2004	Aaron Baer
1985-1986	Melanie Cane	2003-2004	Sophie Woolston
1986-1989	Brian Marcy	2003-2005	Katherine Long
1988-1989	Amy Ludwig	2003-2005	Erin Connor
1988-1990	Virginia Penhune	2003-2005	Matthew Koskowski
1989-1990	Erik Mondrow	2003-2005	Kankshi Thakur
1990-1992	Seth Pollak	2004-2006	Courtney Brown
1991-1992	R. Scott Smith	2004-2006	Adam Cohen
1991-1993	Mathew Kimble	2004-2006	Laura Rosnow
1992-1993	Lloyd Smith	2004-2006	Georgia Bushell
1992-1993	I-han Chou	2004-2006	Mark Dreusicke
1992-1993	Lisa Kaplan	2004-2006	Elizabeth Lewis
1993-1994	Sue Law	2005-2006	Lillian Hsu
1993-1995	Jonathan Solinger	2005-2008	Douglas Markant
1993-1996	Andrea Sherwood	2006-2008	Usman Khan
1994-1996	Maria Karapelou	2006-2012	Katherine Smith
1994-1996	Jay Allard	2006-2008	Charles Davidson
1995-1996	Robert Donnino	2006-2010	Jorge Alvarado
1995-1996	Richard Van Rhoads	2007-2010	Laurel Bobrow
1995-1996	Sarah Carrigan	2008-2010	Douglas Terry
1995-1997	Paola Mazzoni	2008-2010	Andrew Rausch
1995-2000	Iris Fischer	2008-2012	Paula Pelavin
1996-1997	Sare Akdag	2008-2013	Padmapriya Srinivasan
1996-2001	Engat Teh	2009-2011	Katherine Hawley
1996-1998	Creola Petrescu	2009-2012	Mai-Anh Vu
1996-1998	Tanya Kisler	2009-2012	Thomas Ballinger
1996-1998	Joanna Gainski	2009-2012	Alexander LaVenture
1997-1998	Claire Stylianopoulos	2010-2012	Rebecca King
1997-2000	Deirdre Farrell	2011-2012	Daniel McCaffrey
1998-1999	Stephanie Fraone	2011-2012	Kelsey Smith
1998-1999	Alaka Pellock	2010-2014	Talis Swisher
1998-1999	Danielle Synderman	2012-2014	Kathryn Green
1998-1999	Christopher Dodd	2012-2014	Michelle Giwerc
1998-2000	Jonathan Sutton	2012-2014	Brian Dahlben
1998-2000	Ashley Kricun	2012-2014	Eli Fredman
1999-2000	Sara Corriveau	2013-2014	Charles Yergatian
1999-2001	Aleksandra Ciszewski	2014-2015	Anni Zhu
1999-2001	Christopher Allen	2014-2016	Laura Levin
1999-2001	Eric Berry	2014-2016	Dominick Newell
1999-2001	Carlye Griggs	2014-2015	Katherine O'Neal
2000-2001	Lynn Stravinski	2015-2016	Xue Gong
2000-2001	Elizabeth David	2015-2018	Sarina Karmacharya
2000-2002	Anita Madan	2015-2018	Valerie Sydnor
2000-2002	Sarah Toner	2016-2018	Nathanial Somes
2001-2002	Jessica Allen	2016-2018	Sophia Swago
2001-2002	Megan Fagan	2016-2019	Benjamin Reid
2001-2002	Valerie Rosenberg	2018-	Joshua Goldenberg
2001-2003	Magdalena Spencer	2018-	Monica Lyons
2001-2004	Susan Demeo	2018-	Annelise Silva

2001-2003	Hal Ersner-Hershfield	2018-	Elizabeth Rizzoni
2001-2003	Nicola Sumorok	2019-	Peter Wilson-Braun
2002-2003	Laura Wiegand	2019-	Senthil Palanivelu
2002-2003	Sara Rabbit	2019-	Brynn Vessey
2002-2004	Daniel Schwartz	2019-	Evdokiya Knyazhanskaya
2002-2004	Meredith Klump		
2002-2004	Rachel Berman		
2002-2004	Sunny Kim		
2002-2005	Lisa Lucia		

Summer Research Internships

1988	Melanie Cane
1989-1993	Jennifer Haimson
1990	Erik Mondrow
1991	Erik Mondrow
1994	Maaïke Van Ingen
1995-1996	Claire Stylianopoulos

Summer Internships, Continued with the Stanley Scholars Program, Stanley Medical Research Institute

Dr. Shenton was selected by the Stanley Foundation to be a *Senior Scientist Mentor for the Stanley Scholars Program*. The Scholars Program, established by this Foundation, selects Senior Mentors from across North America to supervise the activities of trainees in summer research positions. Dr. Shenton was selected to be one of 27 such mentors across the US and Canada to participate in this program, which was funded from 1997 to 2004. During this 7-year period more than 140 students were funded, working with 44 different faculty members. This program provided a unique educational opportunity for high school students, undergraduate students, and medical students. In fact, this was the first such program to include high school students. The main goal of this program was to introduce students to hands-on experience working in a research laboratory that was focused on understanding mental illness. For most of these students, this was their first experience working in a laboratory.

<i>Year</i>	<i>Student</i>	<i>Preceptor(s)</i>
1997	Jay Allard	Cynthia Wible, Ph.D.
	Robert Anagnoson	Jill Goldstein, Ph.D.
	Sarah DeLong	Margaret Niznikiewicz, Ph.D.
	Brett Rutherford	Dean Salisbury, Ph.D.
	Tanya Sitnikova	Dean Salisbury, Ph.D.
	Paula Teixeira	Robert Greene, Ph.D., M.D.
	Matthew Wecksell	Martha E. Shenton, Ph.D.
	Nyasha Warren	Brian O'Donnell, Ph.D.

1998	Friederika Aceto	Heidi Gralinski, Ph.D./Stuart Hauser, M.D., Ph.D.
	Sare Akdag	Paul Nestor, Ph.D.
	Gina Clark	Philip Holzman, Ph.D./Deborah Levy, Ph.D.
	Massimo DeSantis	Yoshio Hirayasu, M.D., Ph.D./Melissa Frumin, M.D.
	Jennifer Doubilet	Robert Waldinger, M.D.
	Polina Golland	Melissa Frumin, M.D.
	Carolyn Kloek	Heidi Gralinski, Ph.D./Stuart Hauser, M.D., Ph.D.
	Briana Martino	Curtis Deutsch, Ph.D.
	Silvina Moncho	Paul Nestor, Ph.D.
	Juliana Pare-Blagoev	Cynthia Wible, Ph.D.
	Rima Saad	Lisa Najavits, M.D.
	David Sherman	Curtis Deutsch, Ph.D.
	Tatiana Sitnikova	Dean Salisbury, Ph.D.
	Shoshana Sokoloff	Jill Goldstein, Ph.D.
	Michael Ward	Larry Seidman, Ph.D.
	Alexander Wolfe	Margaret Niznikiewicz, Ph.D.
	Janos Zahajsky	Martha E. Shenton, Ph.D.
1999	Sarah Anh	Chandlee Dickey, M.D.
	Seema Arora	Jane Anderson, Ph.D./Dean Salisbury, Ph.D.
	Payal Bansal	James Levitt, M.D.
	Gina Clark	Philip Holzman, Ph.D./Deborah Levy, Ph.D.
	Elizabeth David	Marek Kubicki, M.D., Ph.D./Melissa Frumin, M.D.
	Elton Dean III	Jill Goldstein, Ph.D.
	Jennifer Doubilet	Robert Waldinger, M.D.
	Ana Garnecho	Dean Salisbury, Ph.D.
	S. Duke Han	Paul Nestor, Ph.D.
	Thomas Knowles	Joseph P. Coyle, M.D.

	Silvina Moncho	Paul Nestor, Ph.D.
	Jon-Paul Pepper	Margaret Niznikiewicz, Ph.D.
	Marcela Ramirez	Laverne Gugino, M.D.
	Heidi Wencel	Larry Seidman, Ph.D.
	Christopher Zoumalan	Martha E. Shenton, Ph.D./Ron Kikinis, M.D.
2000	Amron Bevels	Judith Ford, Ph.D.
	Elton Dean III	Jill Goldstein, Ph.D.
	Daniel Fox	Melissa Frumin, M.D.
	Michele Friedman	Margaret Niznikiewicz, Ph.D./Paul Nestor, Ph.D.
	Aaron Jackson-Bonner	Dean Salisbury, Ph.D.
	S. Duke Han	Paul Nestor, Ph.D./Margaret Niznikiewicz, Ph.D.
	Amanda Knowles	Chandlee Dickey, M.D.
	Joshua Maniscalco	Robert Waldinger, M.D.
	Eric Morrow	Laura Prager, M.D.
	Andrea Okruch	Dean Salisbury, Ph.D.
	Elizabeth Olsen	Marek Kubicki, M.D., Ph.D.
	Megan Niman	Deborah Titone, Ph.D.
	Jennifer Tobin	Robert Strecker, Ph.D.
2001	Laura Epstein	Dean Salisbury, Ph.D./Chandlee Dickey, M.D.
	Trifon Fitchorov	Marek Kubicki, M.D., Ph.D.
	Daniel Fox	Carl-Fredrik Westin, Ph.D./Melissa Frumin, M.D.
	Xiao Lao	Steve Matthysee, Ph.D.
	Natasha Gosek	Melissa Frumin, M.D.
	Aaron Strange	Robert Strecker, Ph.D.
	Laura Wiegand	Martha E. Shenton, Ph.D.
	Patrick McGann	Joseph P. Coyle, M.D.
	Erin Rand-Giovannetti	Deborah Titone, Ph.D.
	Amber Bonogofsky	Judith Ford, Ph.D.

	Caroline Connor	Phil Holzman, Ph.D.
	Daniel Fishman	Robert Waldinger, M.D.
	Patricia Sinaiko	Stuart Hauser, M.D., Ph.D./Heidi Gralinski, Ph.D.
	Terri Huh	Paul Nestor, Ph.D./Cynthia Wible, Ph.D.
	Safa Sadeghpour	Francine Benes, M.D., Ph.D.
	Carlene MacMillan	Heidi Gralinski, Ph.D./Stuart Hauser, M.D., Ph.D.
2002	Laura Epstein	Chandlee Dickey, M.D.
	Jessica Santiccioli	Margaret Niznikiewicz, Ph.D.
	Josh Seidman	Robert Stickgold, Ph.D.
	Aaron Strong	Robert Strecker, Ph.D.
	Michael Niznikiewicz	Martha E. Shenton, Ph.D./Marek Kubicki, M.D., Ph.D.
	Erica Lee	Jill Goldstein, Ph.D.
	Mina Xu	Chandlee Dickey, M.D.
	Christopher Allen	Paul Nestor, Ph.D.
	Seth Willen	Barbara Wolfe, Ph.D./David Jimerson, M.D.
	Ethan Schechter	Larry Seidman, Ph.D.
	Lori Schwartz	Dean Salisbury, Ph.D.
	Pauline Kim	Deborah Titone, Ph.D.
	Moira Traci	Robert Waldinger, M.D.
	Patrick Thronson	Deborah Levy, Ph.D./Phil Holzman, Ph.D.
	Tanya Rinderknecht	Judith Ford, Ph.D.
	Kartik Sreenivasan	Daniel Mathalon, Ph.D., M.D.
	Carlene MacMillan	Stuart Hauser M.D., Ph.D./Heidi Gralinski, Ph.D.
	Ramy Joseph El-Khoury	Robert Strecker, Ph.D.
	Ruth Perlmutter	Kevin Spencer, Ph.D.
	Katherine Rose	Chandlee Dickey, M.D./Martha E. Shenton, Ph.D.
	Olga Valdman	Kevin Spencer, Ph.D./Paul Nestor, Ph.D.

2003	Caroline Conner	Miles Cunningham, M.D., Ph.D.
	Victoria Jo	Martha E. Shenton, Ph.D./Chandlee Dickey, M.D.
	Na Young Ji	Martha E. Shenton, Ph.D./Chandlee Dickey, M.D.
	Mina Xu	Chandlee Dickey, M.D.
	Payman Zamani	James Levitt, M.D.
	Grant Thomas-Lepore	Carl-Fredrik Westin, Ph.D.
	Jacob Albertson	Carl-Fredrik Westin, Ph.D./Martha E. Shenton, Ph.D.
	Ruth Perlmutter	Kevin Spencer, Ph.D.
	Christopher Allen	Paul Nestor, Ph.D.
	Andrea Klunder	Chandlee Dickey, M.D./Martha E. Shenton, Ph.D.
	S. Duke Han	Cynthia Wible, Ph.D.
	Amanda Rivers	Mahesh Thakker, Ph.D.
	Julie Breines	Stuart Hauser, M.D., Ph.D./Heidi Gralinski, Ph.D.
	Jessica Santiccioli	Margaret Niznikiewicz, Ph.D.
	Katrik Sreenivasan	Daniel Mathalon, Ph.D., M.D.
	Charles Kochan, III	Judith Ford, Ph.D.
	Alexa Irish	Larry Seidman, Ph.D.
	Andrea Roe	Deborah Levy, Ph.D./Philip Holzman, Ph.D.
	Tad Brunye	Deborah Yurgelun-Todd, Ph.D.
	Julia Gefter	Robert Waldinger, M.D.
2004	Jacob Albertson	Carl-Fredrik Westin, Ph.D.
	Alexa Irish	Chandlee Dickey, M.D.
	Peter Epstein	Chandlee Dickey, M.D./Martha E. Shenton, Ph.D.
	Niznikiewicz	Kevin Spencer, Ph.D.
	Dovid Greene	Chandlee Dickey, M.D.
	Charles Kochan, III	Judith Ford, Ph.D.
	Katrik Sreenivasan	Daniel Mathalon, Ph.D., M.D.

	Ruth Perlmutter	Kevin Spencer, Ph.D.
	Christopher Allen	Margaret Niznikiewicz, Ph.D.
	Ankit Patel	Mahesh Thakkar, Ph.D.
	Christopher Harte	Deborah Levy, Ph.D.
	Joshua Seidman	Larry Seidman, Ph.D.
	Michael Schiller	Larry Seidman, Ph.D.
	Jenna Houranieh	Margaret Niznikiewicz, Ph.D.
	Lonnie Spinelli	Robert Waldinger, M.D.
	Sarah Erich	Stuart Hauser, M.D., Ph.D./Heidi Baker-Gralinski, Ph.D.
	KC LeGrand Collins	Dean Salisbury, Ph.D.
	Mukund Sureshababu	Dean Salisbury, Ph.D.
2005	Alexa Irish	Martha E. Shenton, Ph.D.
	Michael Niznikiewicz	Paul Nestor, Ph.D.

Summer Research Internships, and Research Internships, following end of Stanley Fellowships

2005	Christopher Webber	Martha E. Shenton, Ph.D. (Minority supplement to R01)
	Anjuli Singh	Chandlee Dickey, M.D. (Undergraduate Student, Tufts University.)
2006	James Fish	Martha E. Shenton, Ph.D./KhangUk Lee, M.D. (High School Student, Cambridge Ridge and Latin, and the Program Success, HMS)
	Matthew Isabel	Martha E. Shenton, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2007)
	Jasmine Rollins	Marek Kubicki, M.D., Ph.D./Martha E. Shenton, Ph.D. (High School Student from the Human Resources Summer Internship Program, BWH)
	Sophie Norstrom	Motoiaki Nakamura, M.D./Martha E. Shenton, Ph.D. (High School Student from Norway)
2007	Douglas Terry	Marek Kubicki, M.D., Ph.D./Martha E. Shenton, Ph.D. (Undergraduate Student, Tufts University, Class of 2008)
	Jonathan Hendrickson	Marek Kubicki, M.D., Ph.D./Martha E. Shenton, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2008)
	Jacqueline Goldberg	James Levitt, M.D./Martha E. Shenton, Ph.D. (Medical Student, Upstate Medical University College of Medicine, Class of 2010)

	Morgan Circa	James Levitt, M.D./Martha E. Shenton, Ph.D. (Undergraduate Student, West Virginia University, Class of 2009)
	John Chakerian	Chandlee Dickey, M.D./Martha E. Shenton, Ph.D. (Undergraduate Student, Stanford University, Class of 2010)
	Melissa Mendoza	Martha E. Shenton, Ph.D. (High School Student, Windsor School, and the Human Resources Summer Internship Program, BWH, Class of 2010)
	Francois Budin	Sylvain Bouix, Ph.D. (Masters Thesis Student, M.Eng., Computer Science and Engineering, University of Lyon, France)
2008	Rebecca King	Thomas Whitford, Ph.D. (Undergraduate Student, University of Rochester, Rochester, NY, Class of 2010)
	Michelle Chiu	Zora Kikinis, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2009)
	Eric Melonoka	Sylvain Bouix, Ph.D. and Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Brigham Young University)
	Jalpa Patel	Sylvain Bouix, Ph.D. (Masters Thesis Student, Wayne State University)
	James Malcolm	Yogesh Rathi, Ph.D. (3 rd year Graduate Student in Computer Science and Electrical Engineering, Georgia Tech)
2009	Rebecca King	Thomas Whitford, Ph.D. (Undergraduate Student, University of Rochester, Rochester, NY, Class of 2010)
	Eric Melonokas	Sylvain Bouix, Ph.D. and Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Brigham Young University, Class of 2010)
	Priyanka Chilakamarri	Jason Schneiderman, Ph.D. (Undergraduate Student, Brandeis University, Class of 2011)
	Sam Burnim	Zora Kikinis, Ph.D. (High School Student, The Brooks School, Andover, MA, Class of 2010)
	Tali Swisher	Thomas Whitford, Ph.D. and Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Vassar College, Class of 2010)
	Sam Atwood	Jason Schneiderman, Ph.D. (B.S. in 2008 from Skidmore College)
	Po-Chang Hsu	Martha E. Shenton, Ph.D. (Master's Thesis Candidate, Harvard Extension Division, Neurobiology, Class of 2008)
	Khalima Bolden	Martha E. Shenton, Ph.D. and Jason Schneiderman, Ph.D. (Master's Thesis Student, Boston University, Department of Psychology, Class of 2010)

2010	Khalima Bolden	Martha E. Shenton, Ph.D. and Jason Schneiderman, Ph.D. (Master's Thesis Student, Boston University, Department of Psychology, Class of 2010)
	Priyanka Chilakamarri	Jason Schneiderman, Ph.D. (Undergraduate Student, Brandeis University, Class of 2011)
	Andrew Hyatt	Zora Kikinis, Ph.D. (Undergraduate Student, Middlebury College, Class of 2012)
	Jacob Besen	Thomas Whitford, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2011)
	Edward Vargas	Sylvain Bouix, Ph.D. (High School Student, Herricks Senior High School, Class of 2011) (via MIT-Research Science Institute)
	Borah Kim	Zora Kikinis, Ph.D. and Yogesh Rathi, Ph.D. (Resident in Psychiatry, Seoul National University College of Medicine, South Korea, Class of 2011)
	Junhee Lee	Sang-Hyuk Lee, M.D., Ph.D. (Medical Student, Seoul National University College of Medicine, South Korea, Class of 2011)
2011	Jennifer Anderson	Marek Kubicki, M.D, Ph.D. (Undergraduate Student, Emmanuel College, Class of 2011)
	David King	Sylvain Bouix, Ph.D. (Undergraduate Student, University of Rochester, Class of 2014)
	Andre Michalowski	Marek Kubicki, M.D., Ph.D. (Undergraduate Student, University of Massachusetts, at Amherst, Class of 2014)
	Danielle Pulton	Jennifer Fitzsimmons, M.D. (Undergraduate Student, Brandeis University, Class of 2012)
	Mariana Shirokova	Jim Levitt, M.D. (Undergraduate University of Massachusetts, at Amherst, Class of 2013)
	Felipe Hernandez	Sylvain Bouix, Ph.D. (High School Student, Louisiana School for Math, Science, and the Arts, Class of 2012) (via MIT-Research Science Institute)
	Shizhi (Simon) Liang	Zora Kikinis, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2012)
	Jean Alper	Mai-Anh Vu and James Levitt, M.D. (Undergraduate Student, Emanuel College, Class of 2012)
	Christian Baumgartner	Yogesh Rathi, Ph.D. (Master's Thesis Student ETH, Zurich, Switzerland, Class of 2012)
	Sung Joon Cho	Zora Kikinis, Ph.D. (M.D., M.S., Ph.D. candidate CHA University Medical School, Seoul, South Korea)

	Marc Muehlmann	Inga Koerte, M.D. (Medical Student, Ludwig-Maximillian-University, Munich, Germany, 2013)
	Jessica Zuo	Martha E. Shenton, Ph.D./Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Honor's Thesis Student, Harvard College, Class of 2013)
	Neil Houston	James Levitt, M.D. (Roanoke College, B.A., post-bac)
2012	Jessica Zuo	Martha E. Shenton, Ph.D./Marek Kubicki, M.D., Ph.D. (Undergraduate, Senior Honor's Thesis Student, Harvard College, Class of 2013)
	Marc Muehlmann	Inga Koerte, M.D. (Medical Student, Ludwig-Maximillian-University, Munich, Germany, Class of 2013)
	David Kaufmann	Inga Koerte, M.D. (Medical Student, Ludwig-Maximillian-University, Munich, Germany, Class of 2012)
	Elizabeth Hartl	Inga Koerte, M.D. (Medical Student, Ludwig-Maximillian-University, Munich, Germany, Class of 2012)
	Andre Michalowski	Marek Kubicki, M.D., Ph.D. (Undergraduate Student, University of Massachusetts, at Amherst, Class of 2014)
	Chandler Dunn	Zora Kikinis, Ph.D., and Jennifer Fitzsimmons, M.D. (High School Student, Brooks School, Andover, MA, Class of 2013)
	Sindy Tan	Sylvain Bouix, Ph.D. (High School Student, Hunter College High School, Class of 2013)(via Research Science Institute-MIT)
	Mucahid Sarisoy	James Levitt (Medical Student, Marmara University, School of Medicine, Istanbul, Turkey, Class of 2015)
	Yilmaz Satirer	Jennifer Fitzsimmons and Martha E. Shenton (Medical Student, Hacettepe University School of Medicine, Ankara, Turkey; 621 rank out of 1.8 million for university entrance exam, Class of 2014)
	Hitomi Takahashi	Taiga Hosokawa, M.D., Ph.D. (Simmons College, A.B., Class of 2012, magna cum laude)
	Nora Karara	Inga Koerte, M.D. (Medical Student, University of Bonn, Germany, Class of 2014)
	Kang-Ik Cho	Martha E. Shenton, Ph.D. (Observer, BSc in Neuroscience and Mental Health in Biomedical Sciences, Imperial College London, United Kingdom, 2010, and working in Jun Soo Kwon's Laboratory at Seoul University, South Korea, Class of 2013)
	Jonathan Duskin	Martha E. Shenton, Ph.D., Ofer Pasternak, Ph.D. (Undergraduate in Neuroscience and Philosophy, internship/course credit from Boston University, Class of 2015)
	Khatab Yacoub	Martha E. Shenton, Ph.D., Brian Dahlben, M.S., Marek Kubicki, M.D., Ph.D. (Post-BA University of Texas)

	Nitika Anand	Martha E. Shenton, Ph.D. (Undergraduate Student, Brandeis University, Class of 2013)
2013	Michael Mayinger	Inga Koerte, M.D. (Medical Student, Ludwig-Maximillian-University, Munich, Germany, Class of 2014)
	Jonathan Duskin	Ofer Pasternak, Ph.D., Martha E. Shenton, Ph.D. (Undergraduate in Neuroscience and Philosophy, internship/course credit from Boston University, Class of 2015)
	Tommy Tang	Zora Kikinis, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2014)
	Anni Zhu	Zora Kikinis, Ph.D. (Graduated Franklin and Marshall College, Class of 2013)
	Elif Gurdeniz	Inga Koerte, M.D. (Medical Student, Cerrahpasa Medical Faculty, Istanbul, Turkey, Class of 2014)
	Pedro Rosa	Martha E. Shenton, Ph.D. (Medical Student, Sao Paulo Medical School, San Paulo, Brazil, Class of 2014)
	Phoebe Cai	Sylvain Bouix, Ph.D. (High School Student, Long Island, NY, Class of 2014) (via MIT-Research Science Institute)
	Halen Baker	Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Boston University, Class of 2014)
	Marcia Frimpong	Martha E. Shenton, Ph.D. (Undergraduate Student, Wellesley College Class of 2015)
	Melissa Coronado	Martha E. Shenton, Ph.D., Marek Kubicki, M.D., Ph.D. (Undergraduate Student, Senior Honor's Thesis Student, Harvard College, Class of 2014)
	Caroline Loy	Zora Kikinis, Ph.D. (Undergraduate Student, Cornell University, Class of 2015)
	Daniel Daniluk	Marek Kubicki, M.D., Ph.D. (Undergraduate Student, UMASS, at Amherst, Class of 2015)
	Marc Muehlmann	Inga Koerte, M.D. (Medical Student Ludwig-Maximillian-University, Munich, Germany, Class of 2013)
	Julie Stamm	Inga Koerte, M.D., and Martha E. Shenton, Ph.D. (Ph.D. candidate at Boston University School of Medicine, Class of 2015)
2014	Halen Baker	Zora Kikinis, Ph.D. (Undergraduate Student, Boston University, Class of 2014)
	Jonathan Duskin	Ofer Pasternak, Ph.D. (undergraduate in Neuroscience and Philosophy, internship/course credit from Boston University; received a Howard Hughes Medical Institute –HHMI- Summer Lab Experience Summer Stipend, Class of 2015)

Daniel Daniluk	Marek Kubicki, M.D., Ph.D. (Undergraduate Student, UMASS, at Amherst, Class of 2015)
Carissa Tuozzo	Marek Kubicki, M.D., Ph.D., Amanda Lyall, Ph.D. (Undergraduate Student, Emanuel College, Class of 2016)
Julie Stamm	Inga Koerte, M.D., Martha E. Shenton, Ph.D. (Ph.D. candidate at Boston University School of Medicine, Class of 2015)
Marcia Frimpong	Martha E. Shenton, Ph.D. (Undergraduate Student, Wellesley College Class of 2015)
Sophi LeRoux	Sylvain Bouix, Ph.D. (Master's Thesis Student, Université Paris-EST Créteil, Advanced Institute of Biosciences of Paris (ISBS), Class of 2015)
Ahmed Maklouf	Hesham Hamoda, M.D. (Graduate from Ain Shams Medical School in Cairo, Egypt)
Jakob Hufschmidt	Inga Koerte, M.D. (Medical Student, University of Munich, Germany)
Anna Willems	Inga Koerte, M.D. (Medical Student, University of Munich, Germany, Scholarship from Cusanus Werk, Germany)
Marc Muehlmann	Inga Koerte, M.D. (Medical Student Ludwig-Maximilian-University, Munich, Germany, Class of 2013)
Irem Durgan	Ofer Pasternak, Ph.D. (6 th Year Medical Student, Istanbul University Turkey)
Elan Baskir	Jennifer Fitzsimmons, M.D. (Undergraduate Student, Washington University, Class of 2015)
Isobel Green	Inga Koerte, M.D. and Martha E Shenton, Ph.D. (Undergraduate, Harvard University, Class of 2017; Award of Excellence from the National Collegiate Research Conference for poster presentation entitled, "A study of resting and reaching: Investigating the neural signature of developmental dyslexia through resting-state fMRI analysis)
Analiese Fernandes	Inga Koerte, M.D. (High School Student, Brooks School, Andover MA, Class of 2015)
Seiji Engelkemier	Zora Kikinis, Ph.D. (High School Student, Brooks School, Andover, MA, Class of 2015)
Esmanur Demir	Jennifer Fitzsimmons, M.D. (Medical Student, Trakya University School of Medicine, Edime Turkey, Class of 2017)
Madhura Baxi	Marek Kubicki, M.D., Ph.D. and Yogesh Rathi, Ph.D. (Master's Thesis Student, Auburn University, Class of 2015)

	Agata Staszalis	Marek Kubicki, M.D., Ph.D, Ofer Pasternak, Ph.D. (Master's Thesis Student in the Master's Degree Program in Computer Science, Lodz University of Technology, Class of 2016)
	Yusra Yildirim	Peter Savadjiev, Ph.D., Inga Koerte (Medical Student, Şifa University School of Medicine, Class of 2017)
	Jenny Wang	Sylvain Bouix, Ph.D. (High School Student in North Carolina School Science and Mathematics, Class of 2015)(via MIT-Research Science Institute)
	Esra Dursun	Inga Koerte, M.D., Zora Kikinis, Ph.D. (Medical Student, Marmara University School of Medicine, Istanbul, Turkey, Class of 2018)
	Timothy Gebhard	Inga Koerte, M.D., Sylvain Bouix, Ph.D. (Undergraduate Student, Karlsruhe Institute of Technology, Class of 2015)
	Sung-Jae Lee	Martha E. Shenton, Ph.D. (Resident in Psychiatry, Class of 2015, Bundang CHA Medical Center, CHA University School of Medicine, Gyeonggi-Do, South Korea)
2015	Jonathan Duskin	Ofer Pasternak, Ph.D. (undergraduate in Neuroscience and Philosophy, internship/course credit from Boston University; received a Howard Hughes Medical Institute –HHMI- Summer Lab Experience Summer Stipend, Class of 2015)
	Madhura Baxi	Marek Kubicki, M.D., Ph.D., Yogesh Rathi, Ph.D. (Master's Thesis Student, Auburn University, Class of 2015)
	Isobel Green	Inga Koerte, M.D. and Martha E Shenton, Ph.D. (Undergraduate, Harvard University, Class of 2017; Award of Excellence from the National Collegiate Research Conference for poster presentation entitled, "A study of resting and reaching: Investigating the neural signature of developmental dyslexia through resting-state fMRI analysis)
	Carissa Tuozzo	Amanda Lyall (Undergraduate Student, Emanuel College, Class of 2016)
	Julie Stamm	Inga Koerte, M.D., and Martha E. Shenton, Ph.D. (Ph.D. candidate at Boston University School of Medicine, Class of 2015)
	Bryan Berube	Inga Koerte, M.D. (Undergraduate Student, Boston University, Class of 2017)
	Özge Sönmez	Elisabetta Del Re Ph.D. (Medical Student, Istanbul University, Istanbul, Turkey, Class of 2020)
	Mine Merve Yilmaz	Elisabetta Del Re, Ph.D. (Medical Student, Hacettepe University, Ankara, Turkey, Class of 2015)
	Gül Fatma Çınar	Elisabetta Del Re, Ph.D. (Medical Student, Şifa University, Izmir, Turkey, Class of 2019)

	Anastasiya Melnychuk	Amanda Lyall, Ph.D. (Medical Student, Şifa University, Izmir, Turkey, Class of 2019)
	Bëtul Nuraltuntaş	Amanda Lyall, Ph.D. (Medical Student, Hacettepe University, Ankara, Turkey, Class of 2015)
	Mana Shams	Sylvain Bouix, Ph.D. (High School Student, Per Brahegymnasiet, Sweden, Class of 2015) (via MIT-Research Science Institute)
	Justin Pezzuto	Ofer Pasternak, Ph.D. (Harvard University Extension School, Master’s Thesis Student, Class of 2016)
	Côme Carquex	Yogesh Rathi, Ph.D. (Master’s Thesis Student INSA, Lyon France, Class of 2015)
	Natalia Chunga-Iturry	Marek Kubicki, Ph.D. (Medical Student, UNMSM, Lima Peru, Class of 2015)
	Trisa Bhatia	Zora Kikinis, Ph.D. (High School Graduate, will be an Undergraduate Student, Boston University, Class of 2019)
	Michael Flanagan	Pawel Wrobel (High School Student, Brooks School, Andover, MA, Class of 2016)
2016	Carissa Tuozzo	Amanda Lyall, Ph.D. (Undergraduate Student, Emanuel College, Class of 2016)
	Pranav Upadhyayula	Lipeng Ning, Ph.D. (Research Science Institute (RSI) Summer Program at MIT, RSI Scholar Award; High School Student at Illinois Mathematics and Science Academy, Class of 2017)
	Nicole Bramlitt	Inga Koerte, M.D. (Harvard Summer School Program; High School student at Exeter High School, Class of 2017)
	Sarah Palmer	Zora Kikinis, Ph.D. (Harvard Summer School Program; High School Student at Brooks High School, Class of 2017)
	Daniel Yaeer Koskas	Nikos Makris, M.D., Ph.D. (High School student at Needham High School, Class of 2018)
	Anastasia Haidar	Elisabetta del Re, Ph.D. (High School student at Newton South High School, Class of 2017)
	Brett Jennings	Inga Koerte, M.D. (Proctor for Harvard Summer School Program, undergraduate in Human Evolutionary Biology, Harvard College, Class of 2019)
	Henry Dumke	Amanda Lyall, Ph.D. (undergraduate in Biology, Boston College; received an Eagle Intern Fellowship Program Stipend from Boston College, Class of 2017)
	Andrew Marin	Nikos Makris, M.D., Ph.D. (undergraduate in Neuroscience, Bowdoin College, Class of 2019)

	Zachary Fitzgerald	Amanda Lyall, Ph.D. (Medical Student at University of Washington School of Medicine, Class of 2019)
	Salvatore Lacava	Sylvain Bouix, Ph.D. (Master's Student in Cognitive Neuroscience, University of Trento, Italy; received an Armenise Fellowship from the Harvard-Armenise Summer Program)
	Madhura Baxi	Marek Kubicki, M.D., Ph.D. and Yogesh Rathi, Ph.D. (Graduate student in Computational Neuroscience at Boston University)
	Mehmet Akif Camkurt	Elisabetta del Re, Ph.D. (Psychiatrist at Afsin State Hospital, Turkey)
	Vivian Schultz	Inga Koerte, M.D. (Medical Student at Albert-Ludwigs-University, Freiburg, Germany, Class of 2019)
	Petra Viher	Marek Kubicki, M.D., Ph.D. (Graduate School of Health Sciences-Neuroscience, University of Bern, Switzerland, Class of 2017; received an Award to perform research here from the Swiss National Science Foundation)
	Lily Charron	Zora Kikinis, Ph.D. (High School Student at Windsor High School, Class of 2017)
	Milean Quinci	Amanda Lyall, Ph.D. (College Student, Emanuel College, Class of 2017)
2017	Anastasia Haidar	Elisabetta del Re, Ph.D. (High School student at Newton South High School, Class of 2017)
	Daniel Yaeer Koskas	Nikos Makris, M.D., Ph.D. (High School student at Needham High School, Class of 2018)
	Lily Charron	Zora Kikinis, Ph.D. (High School student at Windsor High School, Class of 2017)
	Vidushi Somani	Yogesh Rathi, Ph.D. (High School student at Lynbrook High School, Class of 2018)
	Melany Blanco	Elisabetta del Re, Ph.D. (High School student at Brooks High School, Class of 2018)
	Abigail Lomibao	Inga Koerte, M.D. (Harvard Summer School Program "Becoming a Brain Scientist;" High School student at Downtown Magnets High School, Class of 2018)
	Utkarsh Tandon	Lipeng Ning, Ph.D. (Research Science Institute –RSI- Summer Program at MIT, RSI Scholar Award; High School student at Cupertino High School, Class of 2018)
	Andrew Marin	Nikos Makris, M.D., Ph.D. (Undergraduate in Neuroscience, Bowdoin College, Class of 2019)
	Milena Quinci	Amanda Lyall, Ph.D. (Undergraduate in Psychology, Emmanuel College, Class of 2017)

	Olivia Novins	Amanda Lyall, Ph.D. (Undergraduate, University of Pennsylvania, Class of 2020)
	Ankita Dev	Suheyla Cetin Karayumak, Ph.D. (Undergraduate, Brigham Young University, Class of 2019)
	Joanna Davis	Sylvain Bouix, Ph.D. (Undergraduate in Biomedical Engineering, Cornell University, Class of 2019)
	James Robertson	Amanda Lyall, Ph.D. (Undergraduate in Statistics, NC State University, Class of 2018)
	Daniel Weber	Marek Kubicki, Ph.D. (Undergraduate in Math, UMass Amherst, Class of 2019)
	Rosanna Veggeberg	Inga Koerte, M.D., Ph.D. (Master’s candidate in Clinical Investigation at the School of Medicine, Boston University)
	Madhura Baxi, M.S.	Marek Kubicki, M.D., Ph.D. and Yogesh Rathi, Ph.D. (Graduate student in Computational Neuroscience at Boston University)
	Eun Kyoung Kang, MD	Ann K. Shinn, M.D., MPH. (Graduate student at CHA University Medical School, South Korea; Clinical Resident, Department of Psychiatry, CHA Bundang Medical Center, CHA University)
	Felix Naegele	Marek Kubicki, M.D., Ph.D. (Medical student and doctoral candidate at The University of Hamburg, Germany)
	Phillipp Kinzel	Inga Koerte, M.D., Ph.D. (Medical student at Ludwig-Maximilian-University of Munich, Munich, Germany)
	Haley Lubeck	Inga Koerte, M.D., Ph.D. (Master’s degree candidate, in Clinical and Cognitive Neuroscience, Maastricht University, The Netherlands)
	Dana Fein-Schaffer	Amanda Lyall, Ph.D. (Undergraduate at Wellesley College, Class of 2019)
	Michael-Ange Moravia	Inga Koerte, M.D., Ph.D. (High school student, New Mission High School, Class of 2019)
	Linette Kwon	Amanda Lyall, Ph.D. (Undergraduate at Wellesley College, Class of 2019)
	Tim Wiegand	Ofer Pasternak, Ph.D. (Undergraduate Ludwig-Maximilians University, Class of 2023)
2018	Linette Kwon	Amanda Lyall, Ph.D. (Undergraduate at Wellesley College, Class of 2019)
	Armanda Pereira	Martha E. Shenton, Ph.D. (University of Minho, EPsi, GUIA, PhD Program in Psychology, Class of 2018)

Alexandra Stanford	Amanda Lyall, Ph.D. (Undergraduate at Wellesley College, Class of 2019)
Lirianna Valerio	Zora Kikinis, Ph.D. (High School Student, Brooks School, Class of 2019)
Caroline Baggeroer	Elisabetta Del Re, Ph.D. (Undergraduate, Syracuse University, Class of 2020)
Elisabeth Coffran	Sinead Kelly, Ph.D. (Undergraduate, Boston College, Class of 2020)
Blake Andreou	Marek Kubicki, M.D., Ph.D. (Undergraduate, Vanderbilt University, Class of 2019)
Meghan Tveit	Inga Koerte, M.D., Ph.D. (Undergraduate, Harvard College, Class of 2020)
James Manning	Ann Shinn, M.D. (Third Year Medical Student, University of Leeds, West Yorkshire, England, Funded by EXSEL@Leeds)
Annabella Matheus	Elisabetta Del Re, Ph.D. (Harvard Summer School Program “Becoming a Brain Scientist;” Huntington High School, Class of 2019)
Sebastian Endt	Yogesh Rathi, Ph.D. (Master’s degree of Science student, Class of 2018, from the Department of Radiology, University Hospital Erlangen, Germany)
Bengisu Solgun	Suheyra Cetin Karayumak, Ph.D. (Scholarship: Medical Student, Hacettepe University Faculty of Medicine, Turkey, Class of 2022)
Anika Cheeria	Lipeng Ning, Ph.D. [Research Science Institute (RSI) Summer Program at MIT, RSI Scholar Award, High School Student, Monta Vista High School, Class of 2019]
Jung Moses Koo	Amanda Lyall, Ph.D. (Third Year Medical Student, Imperial College of London, England)
Donald Lyall	Sinead Kelly, Ph.D. (Post-doctoral Student, University of Glasgow SINAPSE Travel Grant)
2019 Natalie Barry	Lipeng Ng, Ph.D. (Master’s degree of science student in Biomedical Engineering, Universite Descarte Paris, France, Class of 2020)
Hümeýra Husseinî	Sinead Kelly, Ph.D. (Master’s degree of science student in Molecular Biomedicine, Westfälische Wilhelms-University, Germany, Class of 2020)
Maja Burch	Zora Kikinis, Ph.D. (Undergraduate B.S. in Neuroscience, University of Vermont, Class of 2021)
Julia Mieszczanska	Marek Kubicki, M.D., Ph.D. (Undergraduate B.S. in Brain and Cognitive Sciences, University of Rochester, Class of 2021)

Destin Bunda	Matthew Higger, Ph.D. (High School Student, City on the Hill Dudley Square, Harvard Summer School Program, “Becoming a Brain Scientist,” Class of 2020)
Jonayet Lavin	Sinead Kelly, Ph.D. (Harvard Summer School Program, “Becoming a Brain Scientist,” High School Student, Bronx High School of Science, Class of 2021)
Lily O’Sullivan	Suheyly Cetin Karayumak, Ph.D. (Part of the Boston University RISE Program, Bronx High School of Science, Class of 2020)
Pratham Soni	Suheyly Cetin Karayumak, Ph.D. [Research Science Institute (RSI) Summer Program at MIT, RSI Scholar Award, Troy High School, Class of 2020]
Sierra Klein	Ann Shinn, M.D. (Undergraduate, B.S. in Biology, B.S. in Psychology, University of Florida, Class of 2020)
Rebecca Swallow	Kevin Cho, Ph.D. (Undergraduate, B.S. in Biomedical Sciences, King’s College London, UK, Class of 2020)
Alexandra Stanford	Amanda Lyall, Ph.D. (Undergraduate at Wellesley College, Class of 2019)
Michael-Ange Moravia	Inga Koerte, M.D., Ph.D. (High school student, New Mission High School, Class of 2019)

Regional, National and International Contributions

Invited Presentations (primary or co-author)

- 1978 Paper presented on “*Patient Report of Problems and Staff Attention to Patient Problems as Predictors of Treatment Outcome*,” at the 131st Annual Meeting of the American Psychiatric Association Panel Discussion of Compliance with Recommended Follow-up Treatment, Atlanta, GA.
- Paper presented on “*The Problem Oriented Treatment Record*,” in Symposium on Advances in Empirical Assessment in Clinical Settings, *American Psychology Association*, Toronto, Ontario, Canada.
- 1979 Paper presented on “*The Assessment of Patient Outcome Based on the Problem Oriented Record*,” at the 132nd Annual Meeting of the American Psychiatric Association Panel Discussion on the Problem Oriented System in Psychiatry, Chicago, IL.
- 1981 Invited speaker, “*Thought Disorder in Psychotic Patients*,” presented at *FolchiPi Lecture Series*, Mailman Research Center, McLean Hospital, Belmont, MA.
- Invited speaker, “*Discriminability of Thought Disorder in Psychotic Patients*,” presented at *Psychopathology Lecture Series*. William James Hall, Harvard University, Cambridge, MA.
- Paper presented on “*Diagnostic Discriminability of Thought Disorder in Mania and Schizophrenia*,” *American Psychological Association*, Washington, DC.

- 1985 Paper presented on “P300 and Spectral Topography in Schizophrenics and Normals,” IVth World Congress of Biological Psychiatry, Philadelphia, PA.
- 1987 Paper presented on “P300 Positive Symptom Correlates in Schizophrenia,” at the 140th Annual Meeting of the American Psychiatric Association Symposia Session, Chicago, IL.
- 1989 Paper presented on “P300 and Schizophrenia at the Topographical Mapping of Brain Electrical Activity: Neuropsychiatric and Neuropsychological Applications,” A Symposium, The Institute of Living, Hartford, CT.
- Paper presented on “Late Auditory Event-Related Potentials and an Excitotoxicity Model of Pathology in Schizophrenia,” at Department of Veterans Affairs Research Symposium on Schizophrenia, Denver, CO.
- 1990 Invited speaker, “Brain Imaging Techniques in Schizophrenia,” Grand Rounds Presentation, Department of Psychiatry, Burbank Hospital, Fitchburg, MA.
- Paper presented on “Computer Assisted Volumetric Measurements of Brain and CSF Spaces in Schizophrenics and Normal Control Subjects using MRI,” presented at the Fifth Annual Meeting of the Society for Research in Psychopathology, Boulder, CO.
- 1991 Invited speaker, “Imaging Studies in Schizophrenia: Update,” presented at the Massachusetts Mental Health Center Psychopharmacology Lecture Series, Boston, MA.
- Paper presented on “P3 Amplitude in Schizophrenic Patients and Their Family Members,” Biological Psychiatry.
- Paper presented on “Premorbid Adjustment in Schizophrenia,” Biological Psychiatry Annual Meeting.
- Paper presented on “Does the Attentional Asymmetry in Schizophrenia Reflect a Dysfunction in the Left Hemisphere Inhibitory Operations?” Biological Psychiatry Annual Meeting.
- 1992 Paper presented on “Temporal Lobe Abnormalities in Schizophrenia are Related to An Increase in Thought Disorder: A Computerized, Quantitative MRI Study,” Biological Psychiatry Annual Meeting.
- Paper presented on “Auditory P300 Amplitude and Left Posterior Superior Temporal Gyrus Volume Reduction in Schizophrenia,” Biological Psychiatry Annual Meeting.
- Paper presented on “P300 Asymmetries and Temporal Lobe Pathology,” at Symposium on Psychosis and the Temporal Lobe, 145th Annual Meeting of the American Psychiatric Association.
- Invited speaker, “Temporal Lobe Structural Abnormalities in Schizophrenia,” presented at the “Scientific Symposium on Psychopathology: The Evolving Science of Mental Disorder,” to honor Professor Philip Holzman, American Academy of Arts & Sciences, Cambridge, MA.
- Paper presented on “P300 Asymmetry in Schizophrenia: Association with Left Posterior Superior Temporal Gyrus Volume Reduction.” Symposium on ERP aspects of schizophrenia, EPIC X Congress, Budapest, Hungary.
- 1993 Paper presented on “Temporal Lobe Abnormalities in Schizophrenia,” at the International Congress on Schizophrenia Research, Colorado Springs, CO.

Paper presented on “*Alterations in Left Temporal and Temporal Lobe Gyrus Pattern in Schizophrenia*,” *Biological Psychiatry Annual Meeting*, San Francisco, CA.

Paper presented on “*Temporal Lobe: MRI, ERP, and Clinical Pathology*,” in symposium: “Psychoses: Structure and function in three brain systems,” at the *146th Annual Meeting of the American Psychiatric Association*, San Francisco, CA.

Paper presented on “*Clinical Symptoms and Temporal Lobe MR Volume Measures in Schizophrenia*,” at the Panel Group: “Dopamine and Cognition: The Schizophrenia Connection,” *32nd Annual Meeting of the American College of Neuropsychopharmacology*, Honolulu, Hawaii.

Paper presented on “*Temporal Lobe Volume Reduction and Thought Disorder in Schizophrenia*,” at the Panel Group: “Models of Psychosis: Pathophysiology,” *32nd Annual Meeting of the American College of Neuropsychopharmacology*, Honolulu, Hawaii.

1994 Invited speaker, “*Imaging Studies: Relationship with Symptomatology*,” at “*New Developments in Schizophrenia*,” University of Utrecht, The Netherlands.

Paper presented on “*3D Warping of Digital Anatomic Atlas onto Patient's Data Sets*,” at the *12th Annual Meeting of the Society for Magnetic Resonance Imaging*, Dallas, TX.

Paper presented on the “*Superior Temporal Gyrus and Thought Disorder*,” presented in the symposium session, “*Schizophrenia: Imaging and a new pathophysiology*,” the sesquicentennial meeting of the *147th Annual Meeting of the American Psychiatric Association*, Philadelphia, PA.

Paper presented on “*Warp Speed: MRI Windows on the Brain and Behavior*,” in the symposium session, “*Schizophrenia: Imaging and a new pathophysiology*,” the sesquicentennial meeting of the *147th Annual Meeting of the American Psychiatric Association*, Philadelphia, PA.

Paper presented on “*3D Surface Renderings of the Planum Temporale in Schizophrenia: A Quantitative MRI Study*,” at the *Ninth Annual Meeting of the Society for Research in Psychopathology*, Miami FL.

Invited speaker, “*Temporal Lobe Findings in Schizophrenia*,” at the *Massachusetts Mental Health Center Psychopharmacology Lecture Series*, Boston, MA.

Paper presented on “*The Frontal Lobe in Schizophrenia: ERP, MRI, and Neuropsychological Data*,” at the *Symposia, Converging Perspectives on Frontal Lobe*,” at the *Society for Psychophysiological Research*, Atlanta, GA.

Paper presented on “*Does P3 Topography Discriminate Schizophrenic Psychosis from Affective Psychosis?*” Presented at the *24th Annual Meeting of the Society for Neuroscience*, Miami FL.

Paper presented on “*An ERP Study of P3A to Novel Sounds and P3B to Target Tones in Schizophrenia*,” presented at the *24th Annual Meeting of the Society for Neuroscience*, Miami FL.

Paper presented on “*Parcellation of Human Prefrontal Cortex Using High Resolution MRI: A Volumetric Study of Schizophrenic and Control Subjects*,” presented at the *24th Annual Meeting of the Society for Neuroscience*, Miami, FL.

1995 Invited speaker, “*Neuroimaging Studies in Schizophrenia*,” *Okinawa Psychiatric Association*, University of the Ryukyus, Nishihara Town, Okinawa, Japan.

Invited speaker, *“Temporal Lobe Findings in Schizophrenia,” Grand Rounds Presentation, Department of Psychiatry, University of Alabama, Birmingham, AL.*

Paper presented on *“Temporal Lobe Dysfunction and Schizotypal Personality Disorder,”* presented in the Symposium session, *“Brain structure and function in the schizophrenia spectrum,” 148th Annual Meeting of the American Psychiatric Association, Miami, FL.*

Paper presented on *“Schizotypal Disorder: Cognitive, Behavioral, and Neuropathological Indicators,” Biological Psychiatry Annual Meeting, Miami, FL.*

Invited speaker; *“The Relationship Between Temporal Lobe Abnormalities and Schizophrenia,”* presented at the *Behavioral Neurology Unit, Beth Israel Hospital, Boston, MA.*

Paper presented on *“Neurologic, Neurophysiologic, and Neuroanatomic Abnormalities in Chronic, Combat-Related PTSD,”* presentation within the symposium, *“Neurobiological Advances in PTSD,” 2nd International Conference on New Directions in Affective Disorders, Jerusalem, Israel.*

Invited speaker, *“Anatomical Abnormalities in the Temporal Lobe in Schizophrenia,”* presented in symposia on neuroimaging and schizophrenia, *8th Annual Congress of European College of Neuropsychopharmacology, Venice, Italy.*

Paper presented on *“Abnormal P3 Topography in First Episode Schizophrenia-Like Psychosis,” The 35th Annual Meeting of the Society for Psychophysiological Research, Toronto, Ontario, Canada.*

Paper presented on *“The Harvard Brain Atlas: A Teaching and Visualization Tool,”* at the *Symposium on Biomedical Visualization, IEEE Visualization Conference 1995, Atlanta, GA.*

Invited speaker, *“Neuroimaging in Schizophrenia,” Mental Health and Behavioral Sciences Council, Clinical Case Conference Schedule, Department of Psychiatry, VAMC-Brockton, Harvard Medical School, Brockton, MA.*

Paper presented on *“A Neural Circuit Model of Schizophrenic Pathology: Failure of Recurrent Inhibition,”* presented as part of the panel session, *“The Neurophysiology of Abnormal Function in Schizophrenia Spectrum: Risk and Protective Factors”, 34th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico.*

1996 Invited speaker, *“Neurocognitive Correlates of Schizotypal Personality Disorder,” Society for Research in Psychopathology, Atlanta, GA.*

Invited speaker, *“MRI and ERP Findings in Schizophrenia and Schizophrenia Spectrum Disorders,” Colloquium Series: Psychology Department, Harvard University, Cambridge, MA.*

Invited speaker, *“Structural, Neurophysiological, and Clinical Indicators of Schizophrenia,” Grand Rounds Presentation, Beth Israel Hospital Psychiatry Grand Rounds, Boston, MA.*

Paper presented on *“Schizophrenia Disorders: Neurodevelopmental and Onset Vulnerability Factors,” Biological Psychiatry Annual Meeting.*

Paper presented on *“MRI Structural and Electrophysiological/Neuropsychological Functional Correlates of Schizotypal Personality Disorder,” 35th Annual Meeting of the American College of Neuropsychopharmacology, San Juan, Puerto Rico.*

- 1997 Invited speaker, *“Neuroimaging Studies in Schizophrenia and Schizophrenia Spectrum Disorders,” Grand Rounds Presentation at the Massachusetts General Hospital Psychiatry Grand Rounds, Boston, MA.*
- Invited speaker, *Workshop on Neuroimaging, Harvard Department of Psychiatry Neuroimaging Day, McLean Hospital, Belmont, MA.*
- Paper presented on *“Temporal P300 Asymmetry in First Episode Schizophrenia,” International Congress of Schizophrenia Research, Colorado Springs, CO.*
- Paper presented on *“Schizophrenia: MRI, Electrophysiological and Cellular Data Bearing on Some Current Issues and Controversies,” Biological Psychiatry Annual Meeting, San Diego, CA.*
- Paper presented on *“Morphologic and Cognitive Indicators of Schizotypal Personality Disorder,” Biological Psychiatry Annual Meeting, San Diego, CA.*
- Paper presented on *“MRI and ERP Abnormalities in First Episode Psychosis,” Biological Psychiatry Annual Meeting, San Diego, CA.*
- Paper presented on *“Left Temporal P3 Reductions in Chronic and First Episode Schizophrenia,” Biological Psychiatry Annual Meeting, San Diego, CA.*
- Paper presented on *“Abnormal ERP Activity Despite Normal Performance on Homographs in Schizophrenia,” Biological Psychiatry Annual Meeting, San Diego, CA.*
- Invited Speaker, *“MRI Findings in Schizophrenia,” Department of Psychiatry, University of North Carolina, Chapel Hill, NC.*
- Invited Speaker, *“Clinical and Temporal Lobe MRI Findings in Schizophrenia,” Department of Psychiatry, Grand Rounds Presentation, University of California, Davis, CA.*
- Paper presented on *“Brain Imaging in Psychiatric Disorders,” the XVI World Congress of Neurology, Buenos Aires, Argentina.*
- 1998 Invited speaker, *“MRI as a Window into the Brain,” Neurology Residency Training Program (BWH, MGH, West Roxbury/Brockton VAMC), Department of Neurology, Harvard Medical School.*
- Invited speaker, *“MRI, ERP Findings in Schizophrenia and Schizophrenia Spectrum Disorders,” Colloquium Series: Psychology Department, Harvard University, Cambridge, MA.*
- Invited speaker, *Zubin Memorial Award for Research in Psychopathology, presentation: “MRI, ERP, and Clinical Indicators of Schizophrenia,” Grand Rounds Presentation, Columbia University College of Physicians and Surgeons, New York State Psychiatric Institute, New York, NY.*
- Invited Speaker, Workshop; *“Application of Imaging and Image Processing Tools to the Investigation of Schizophrenia.” Medical Image Computing and Computer Assisted Intervention (MICCAI), MIT, Cambridge, MA.*
- 1999 Paper presented on *“Shape Differences in the Hippocampus in Schizophrenia,” at the 152nd Annual Meeting of the American Psychiatric Association, Washington, DC.*
- Paper presented on *“Progressive of MRI Volume Change in Schizophrenia,” at the 152nd Annual Meeting of the American Psychiatric Association, Washington, DC.*

Paper presented on “*Caudate Volume in Schizotypal Personality Disorder: An MRI Study in Neuroleptic-Naive Subjects*,” at the 152nd Annual Meeting of the American Psychiatric Association, Washington, DC.

Invited speaker, “*MRI Findings in Schizophrenia*,” Grand Rounds Presentation, Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA.

Invited speaker, “*MRI Findings in Schizophrenia*,” Grand Rounds Presentation, Behavioral Neurology, Brigham and Women’s Hospital, Harvard Medical School, Boston, MA.

2000 Invited Speaker, *Career Opportunities in Academia*, presentation to PGY-III and IV Residents in the Residency Training Program, Department of Psychiatry, Brockton-VAMC, Harvard Medical School.

Invited Speaker, “*MRI Findings in Schizophrenia and Schizotypal Personality Disorder*,” Seminar Series, Residency Training Program, Department of Psychiatry, Brockton-VAMC, Harvard Medical School.

Invited Speaker, “*MR and MR Diffusion Imaging Findings in Schizophrenia*,” Memory Disorders Center, Veterans Affairs Medical Center, Boston, MA.

Invited Speaker, “*Diffusion Imaging as a Technique for Evaluating Disconnections in the Brain*,” Memory Disorders Center, Veterans Affairs Medical Center, Boston, MA.

Paper presented on “*Reduced Left Heschl’s Gyrus Volume in Schizotypal Personality Disorder*,” Biological Psychiatry Annual Meeting, Chicago, IL.

Paper presented on the “*Uncinate Fasciculus in Schizophrenia: A Diffusion Tensor Study*,” at the 153rd Annual Meeting of the American Psychiatric Association, Chicago, IL.

Paper presented on “*White Matter Abnormalities in Schizophrenia*,” at the 153rd Annual Meeting of the American Psychiatric Association, Chicago, IL.

Paper presented on “*Schizophrenia: Progressive Prefrontal Gray Matter Changes*,” at the 153rd Annual Meeting of the American Psychiatric Association, Chicago, IL.

Invited Speaker, Neuroimaging and Psychiatry, Seminar Series, Residency Training Program, Department of Psychiatry, VA Boston Healthcare System, Brockton Division, Harvard Medical School.

Paper presented on “*Uncinate Fasciculus in Schizophrenia: A Diffusion Tensor Study*,” at the 153rd Annual Meeting of the American Psychiatric Association, Chicago, IL.

Paper presented on the “*Cingulum Bundle in Schizophrenia Using Diffusion Tensor Imaging*,” RSNA 86th Scientific Assembly and Annual Meeting, Chicago, IL.

2001 Paper presented on “*Disruption of the Integrity within the Cingulum Bundle in Schizophrenic Subjects: MR Diffusion Tensor Study*,” at the VIIIth International Congress of Schizophrenia Research, Whistler’s Mountain, British Columbia, Canada.

Paper presented on “*Fusiform Gyrus Volume Reduction in First-Episode Schizophrenia*,” at the 154th Annual Meeting of the American Psychiatric Association, Chicago, IL.

Paper presented on “*The Neurobiology of Schizotypal Personality Disorder*,” at Biological Psychiatry Annual Meeting, New Orleans, LA.

Invited Speaker, *Grand Rounds Presentation*, “*The Neurobiology of Schizotypal Personality Disorder.*” *Psychopharmacology Lecture Series*, Massachusetts Mental Health Center, Department of Psychiatry, Harvard Medical School, Boston, MA.

2002 Invited Speaker, *Grand Rounds Presentation*, “*Neurophysiological, Neuroimaging, Cognitive, and Clinical Aspects of Schizotypal Personality Disorder,*” *University of Massachusetts, Department of Psychiatry*, Worcester, MA.

Workshop, “*How Does Studying Schizotypal Personality Disorder Inform Us About Schizophrenia?*” *Biological Psychiatry Annual Meeting*, Philadelphia, PA.

Symposium, Talk entitled, “*Post-Onset Progression of Gray and White Matter Abnormalities and Functional Changes in Schizophrenia.*” *Biological Psychiatry Annual Meeting*, Philadelphia, PA.
Invited Speaker; *Grand Rounds Presentation*, “*The Neurobiology of Schizotypal Personality Disorder.*” *Department of Psychiatry, Tufts University School of Medicine*, Boston, MA.

2003 Invited Speaker; *Grand Rounds Presentation*, “*The Neurobiology of Schizotypal Personality Disorder.*” *Department of Psychiatry, Dartmouth School of Medicine*, Hanover, NH.

Invited Speaker, “*Career Opportunities in Academia,*” presentation to *PGY-II and III Residents, Residency Training Program, Department of Psychiatry, Brockton-VAMC*, Harvard Medical School.

2004 Invited Speaker, *Grand Rounds Presentation*, “*Cognitive, Event-Related Potential, and MRI Findings in Schizotypal Personality Disorder.*” *Neuroscience Series, Department of Psychiatry, Neurology, and Neurosurgery, Massachusetts General Hospital*, Harvard Medical School, Boston, MA.

Paper presented on white matter integrity in schizophrenia- “*DTI and MTR Voxel-wise Analysis,*” at the *Winter Workshop in Schizophrenia*, Davos, Switzerland.

Paper presented in Symposium, entitled, “*Progressive Decrease of Superior Temporal Gyrus Volume in First-Episode Schizophrenia,*” *2004 International Congress of Biological Psychiatry*, February 13, 2004, Sydney, Australia.

Paper presented in Symposium, entitled, “*P300 ERP and MRI Asymmetry in First Episode Schizophrenia,*” *2004 International Congress of Biological Psychiatry*, February 13, 2004, Sydney, Australia.

Paper presented in Symposium, entitled, “*Mismatch negativity: A Possible ERP and fMRI Index of Post Onset Progression of Brain Changes in Schizophrenia,*” *2004 International Congress of Biological Psychiatry*, February 13, 2004, Sydney, Australia.

Paper presented in Symposium, “*ERP and Structural MR Correlates of Automatic and Controlled Attention in Schizophrenia,*” *2004 International Congress of Biological Psychiatry*, February 13, 2004, Sydney, Australia.

Invited Speaker, “*Schizotypal Personality Disorder; Developmental Neuroscience Course,*” *Harvard Child Psychiatry Training Program*, presented to second year residents, Children’s Hospital, Harvard Medical School.

Invited Speaker, *Grand Rounds Presentation* entitled “*Schizotypal Personality Disorder,*” *Braindance Awards for Student Research on Schizophrenia and the Brain,*” *The Schizophrenia Research Center and the Olin Neuropsychiatry Research Center at The Institute of Living*, Hartford, CT, April 7, 2004.

Invited Speaker, Symposium on *The Midline as a Developmental Field and Its Relationship to Dymorphogenesis in Psychotic Illness*, presentation entitled “Midline Cavum Septi

Pellucidi Abnormalities, Hippocampal Shape Abnormalities, and Diffusion Tensor Corpus Callosum Asymmetry Abnormalities in Schizophrenia,” XXIVth CINP Congress (June 20-24, 2004), Palais des Congres, Porte Maillot, Paris, France, June 23, 2004.

Paper presentation, “*DTI Findings in Schizophrenia*,” DTI Workshop, New York Academy of Sciences, New York, NY, August 29, 2004.

Paper presented in *Panel Session on Face to Face: Face Processing Health and Schizophrenia*, the 43rd Annual Meeting of the American College of Neuropsychopharmacology, entitled, “*Fusiform Gyrus Volume Reduction and Altered Face Processing in Schizophrenia*,” December 2004, San Juan, Puerto Rico.

2005 Paper presented entitled, “*In Vivo Neuroimaging Data in Support of Auditory Processing Abnormalities in Schizophrenia*,” at the Symposium on *Top-Down versus Bottom-Up: The Role of Feedforward and Feedback in Auditory Processing Abnormalities in Schizophrenia*, at the 60th Annual Meeting of Biological Psychiatry, May 19, Atlanta, GA.

Paper presented in Symposia on *Understanding Anxiety: Advances in its Neurobiological Basis and Treatment Implications*. Paper entitled, “*Structural and Functional and Neuroimaging Studies of PTSD*.” The 8th World Congress of Biological Psychiatry, June 30, 2005, Vienna, Austria.

Paper presented in Symposia on *Bases for Change Detection vs. Controlled Attention: Thresholds of Consciousness in Schizophrenia*. Paper entitled, “*MMN: A Probe for Auditory Cortex Abnormalities in Schizophrenia*.” The 8th World Congress of Biological Psychiatry, July 1, 2005, Vienna, Austria.

Paper presented in Symposia on *Neurobiological Mechanisms Underlying Susceptibility to Schizophrenia*. Paper entitled: “*Progressive MRI and ERP Deficits After Schizophrenia Onset*.” The 8th World Congress of Biological Psychiatry, June 30, 2005, Vienna, Austria.

Chair of Symposia on *The Application of Diffusion Tensor Magnetic Resonance Imaging to Understand Brain Abnormalities in Schizophrenia*. The 8th World Congress of Biological Psychiatry, July 2, 2005, Vienna, Austria.

Paper presented in Symposia on *The Application of Diffusion Tensor Magnetic Resonance Imaging to Understand Brain Abnormalities in Schizophrenia*. Paper entitled: “*Disconnection in Schizophrenia: Evidence from Diffusion Tensor Imaging*.” The 8th World Congress of Biological Psychiatry, July 2, 2005, Vienna, Austria.

Invited speaker, *Iniciativa associada ao VIII Congresso Galaico Portugal de PsicoPedagogia*, University of Minho, Braga, Portugal. Talk: “*Neurobiology of Schizotypal Personality Disorder*,” July 5, 2005.

2006 Paper presented at the 13th Biennial Winter Workshop on Schizophrenia Research, Davos, Switzerland, as part of a session entitled *What Separates Brain Structure in Bipolar Disorder from that in Schizophrenia*. Paper entitled, “*Neocortical Gray Matter Volume in First Episode Schizophrenia and First Episode Affective Psychosis: A Cross-Sectional and Longitudinal MRI Study*,” February 4, 2006.

Invited Speaker, *Clinical Psychopharmacological Institute, American Psychiatric Nurses Association*, Paper entitled: “*Neurobiology of Schizotypal Personality Disorder*.” June 24, 2006.

Paper presented at *Human Brain Mapping*, Florence, Italy, entitled, “*Executive Attentional Network-Functional Activation and Anatomical Integrity in Schizophrenia*,” June 11-15, 2006.

Paper presented at *Human Brain Mapping*, Florence, Italy, entitled, “*Regionally Specific Orbitofrontal Volume Deficit and Sulcal Pattern Alteration in Schizophrenia and Volumetric Association with the Iowa Gambling Task*,” June 11-15, 2006.

Invited Speaker, *International Postgraduate Programme in Life and Health Sciences on Imaging in Neuropsychiatric Research*, University of Minho, Braga, Portugal. Talk, “*Diffusion Tensor Imaging Applied to Schizophrenia: A New Technique for Exploring White Matter Abnormalities*,” September 12, 2006, Braga, Portugal.

Invited Speaker, *International Postgraduate Programme in Life and Health Sciences on Imaging in Neuropsychiatric Research*, University of Minho, Braga, Portugal. Talk, “*ERP, MRI, DTI, and Cognitive Abnormalities in Schizotypal Personality Disorder*,” September 12, 2006.

Invited Speaker: “*Neurobiology of Schizotypal Personality Disorder, New Findings*,” Martinos Center for Biomedical Imaging, Department of Psychiatry, Massachusetts General Hospital, November 8, 2006, Boston, MA.

2007 Discussant for “*DTI Update*,” all hands meeting of the *National Alliance for Medical Imaging and Computing*, Salt Lake City, Utah, January 11, 2007.

Talk given to Residents in the Longwood Residency Training Program (PGY2) on “*Neuroimaging Techniques Applied to Neuropsychiatric Disorders*,” March 7, 2007, Boston, MA.

Talk given to Residents in the Longwood Residency Training Program (PGY2) on “*Endophenotypic markers of psychiatric disorders: How to define a reasonable one*,” March 14, 2007, Boston, MA.

Invited Speaker, “*Longitudinal diffusion tensor imaging (DTI) of white matter changes in schizophrenia*,” *International Congress of Schizophrenia Research*, Colorado Springs, CO, March 31, 2007.

Chair, Symposium on “*Endophenotypic Markers in Schizophrenia*,” *International Congress of Schizophrenia Research*, Colorado Springs, CO, March 30, 2007.

Invited speaker, Brigham and Women’s Hospital, *Biomedical Research Institute, Imaging Program Seminar Series*. Presentation, “*Neuroimaging Applications to Psychiatric Disorders*,” June 5, 2007.

Invited Speaker, “*DTI Findings in Schizophrenia*,” Department of Psychiatry, University of Toronto School of Medicine, Toronto, Canada, June 19, 2007.

Oral Presentation, “*Altered Orbitofrontal Sulcogyral Pattern and Region-Specific Orbitofrontal Volume Deficit in Schizophrenia*,” presented at the *37th Annual Meeting of Society for Neuroscience*, November 4, 2007, San Diego, California.

Oral Presentation, “*Altered Orbitofrontal Sulco-Gyral Pattern in Schizophrenia*,” *International Congress on Schizophrenia Research*, March 30, 2007, Colorado Springs, Colorado.

2008 Oral Presentation, “*Disease Specific Alteration of Orbitofrontal Sulcogyral Pattern in First Episode Schizophrenia*,” *1st Schizophrenia International Research Society Conference*, June 23, 2008, Venice, Italy.

Oral Presentation, “*Neocortical Gray Matter Volume in First Episode Schizophrenia and First Episode Affective Psychosis: A Cross-sectional and Longitudinal MRI Study,*” 3rd Annual Meeting of Japanese Society of Schizophrenia Research, March 14, 2008, Tokyo, Japan.

Oral Presentation, “*Altered Orbitofrontal Sulcogyral Pattern and Region-Specific Orbitofrontal Volume Deficit in Schizophrenia,*” 3rd Annual Meeting of Japanese Society of Schizophrenia Research, March 14, 2008, Tokyo, Japan.

Oral Presentation, “*Orbitofrontal Structural Alterations and Social Disturbance in Schizophrenia,*” Symposium Presentation at the 13th Pacific Rim College of Psychiatrists Scientific Meeting (PRCP), November 2, 2008, Tokyo, Japan.

Invited speaker, “*MRI Findings in Schizophrenia,*” Program in Biomedical Neuroscience Distinguished Lecture Series, Department of Pharmacology and Experimental Therapeutics, Boston University School of Medicine, January 18, 2008, Boston, MA.

Talk given to Residents in the Longwood Residency Training Program in Psychiatry (PGY2) “*Neuroimaging Findings in Schizophrenia,*” January 23, 2008, Boston, MA.

Invited speaker, “*Diffusion Tensor Imaging Findings in Schizophrenia,*” Massachusetts Mental Health Center Research Grand Rounds, Department of Psychiatry, Harvard Medical School, March 18, 2008.

Symposium: *Altered White Matter Communication in Schizophrenia and Bipolar Disorder: A Possible Common Endophenotype?* Invited Speaker, “*Uncinate Fasciculus and Cingulum bundle findings in First Episode Schizophrenia and First Episode Bipolar Disorder: A Diffusion Tensor Imaging Study,*” 16th European Congress of Psychiatry, Nice, France, April 7, 2008.

Plenary Talk, XI Turku PET Symposium: *New Targets in Molecular Imaging*, oral presentation, “*Advances in White Matter Imaging,*” May 27, 2008, Turku, Finland.

Invited speaker, “*Diffusion Tensor Imaging in Schizophrenia,*” Summer School course in Neuroscience at Harvard University, Directed by Dr. Dorothy Holinger, July 10, 2008.

Plenary Speaker, “*Advances in Diffusion Tensor Imaging in Schizophrenia,*” presented at the Brain Imaging Symposium, *New Concepts in Structural and Functional Imaging*, IBILT-Faculdade de Medicina, Amfiteatro, Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal, July 20, 2008.

Invited Speaker, “*DTI Applications to Schizophrenia,*” Department of Psychology and Radiology, University of Minho, Braga, Portugal, July 21, 2008.

Chair and Invited Speaker, Symposium: *Neuroimaging and Psychosis - Current Trends*. Invited speaker on “*Advances in White Matter Imaging in Schizophrenia,*” 21st European College of Neuropsychopharmacology Congress September 1, 2008, Barcelona, Spain.

Invited Speaker, “*Advances in MRI and DTI Findings in Schizophrenia,*” VA Boston Healthcare System/Harvard Grand Rounds, Brockton, MA, October 1, 2008.

Invited Speaker, “*MRI and DTI Findings in Schizophrenia,*” Harvard Longwood Psychiatry Grand Rounds Conference, Harvard Medical School Department of Psychiatry, October 30, 2008.

2009 Invited Speaker, “*Research Careers in Psychiatry,*” Harvard Longwood Psychiatry Residency Training Program, February 25, 2009.

Invited Speaker, “*Reviewing Research in the Area of Neuroimaging Findings in Neuropsychiatric Disorders*,” Harvard Longwood Psychiatry Residency Training Program, March 4, 2009.

Presentation, “*New Advances in Diffusion Magnetic Resonance Imaging and Their Application to Schizophrenia*.” World Psychiatric Association International Congress, “*Treatment in Psychiatry: A New Update*,” April 2, Florence, Italy.

Invited Speaker, Symposium on “*Brain Imaging in Psychiatry: Recent Progress and Clinical Implications*,” presentation on “*Advances in White Matter Imaging and its Application to Schizophrenia*.” World Psychiatric Association International Congress, “*Treatment in Psychiatry: A New Update*,” April 3, Florence, Italy.

Oral Presentation (co-author), “*Anterior Cingulate and Paracingulate Abnormalities in Schizophrenia*.” Society for Neuroscience Meeting, Chicago, IL, October 17-21, 2009.

Invited Speaker, “*DTI Findings in Schizophrenia*,” School of Pharmacology, University of Rhode Island, Kingston, RI, November 12, 2009.

2010 Invited Speaker, “*DTI as a Method for Understanding Psychiatric Disorders*,” PGY II residents, Harvard South Shore Psychiatry Residency Training Program, VA Brockton, Harvard Medical School, February 3, 2010.

Invited Speaker, “*White Matter Findings in Schizophrenia and Related Disorders*.” Psychiatry Genetics and Translational Research Seminar, Department of Psychiatry, Massachusetts General Hospital, Boston, MA, March 9, 2010.

Speaker, External Advisory Board, Clinical Consortium for TBI and PTSD, “*Progress in Neuroimaging Acquisition Protocols and Post-Processing Measures for the Clinical Consortium Sites*,” San Diego, CA, November 18, 2010.

2011 Invited Speaker, “*Diagnostic and Prognostic Indicators of Traumatic Brain Injury*.” Exploring Diagnostic, Therapeutic, and Rehabilitative Strategies in NeuroHealth, TBI, and PTSD, Center for Integration of Medicine and Innovative Technology (CIMIT), Workshop, January 25, 2011.

Invited Speaker, “*Neuroimaging Applications for Understanding Psychiatric Disorders*,” PGY II residents, Harvard South Shore Psychiatry Residency Training Program, VA Brockton, Harvard Medical School, March 7, 2011.

Invited Speaker, “*In-Process Review of Neuroimaging Techniques and Their Application to the Multi-Site Clinical Consortium on PTSD/TBI*.” Presented at the US Army Medical Research and Materiel Command, Combat Casualty Care Research Program In-Process Scientific Review, Department of the Army, January 31, 2011, Herndon, VA.

Oral presentation (co-author), “*Diagnosis of Diffuse Axonal Injury with Diffusion Tensor Imaging*,” 3rd Federal Interagency Conference on TBI, Washington DC, 2011.

Oral presentation (co-author), “*Diffusion Imaging Reveals Two Spatially Separable Mechanisms In Mild TBI*,” 3rd Federal Interagency Conference on TBI, Washington, DC, 2011.

Invited Speaker, “*White Matter Changes in First Episode Schizophrenia*,” presented as part of a symposium on findings from the CIDAR first episode study of schizophrenia, entitled, “*Vulnerability to Progression in Schizophrenia*.” International Congress of Schizophrenia Research, Colorado Springs, CO, April 7, 2011.

Co-Chair, Poster Symposium on Multi-Modal Findings in Schizophrenia. *International Congress of Schizophrenia Research*, Colorado Springs, CO, April 5, 2011.

Invited Speaker, “*On being a Mentor and Being Mentored.*” Special course on Moving on Up, Brigham and Women’s Hospital, April 12, 2011.

Chair, Symposium entitled “*A Multimodal Imaging Approach to Investigating the Structural Basis of Aberrant Brain Connectivity in Patients with Schizophrenia,*” 10th World Congress of the World Federation of Biological Psychiatry, June 1, 2011, Prague, Czech Republic.

Invited Facilitator, Breakout Session on “*the Future of Neuroimaging in Psychiatry,*” Harvard Psychiatry Residents’ Day, *Imagining the Future of Psychiatry: Neuroscience to Healthcare Policy*, McLean Hospital, November 9, 2011.

2012 Invited Speaker, “*Neuroimaging and Psychiatry Disorders,*” PGY II Residents, Harvard South Shore Psychiatry Residency Training Program, VA Brockton, Harvard Medical School, January 18, 2012.

Invited Speaker, “*Identification of Neuroinflammation in Mild Traumatic Brain Injury Using a Free Water Atlas,*” 9th World Congress on Brain Injury (IBIA), Edinburgh, Scotland, March 22, 2012.

Endowed Professorship Special Talk, “*DTI findings in Schizophrenia and in Mild Traumatic Brain Injury,*” University of Minho, Minho, Portugal, April 18, 2012.

Symposium on Advanced Imaging in Psychiatric Diseases: Opportunities and Trends, invited talk on “*Advanced Imaging for the Evaluation of Schizophrenia and Related Illnesses,*” 50th meeting of the American Society for Neuroradiology, New York, New York, April 21, 2012.

Invited Speaker, “*Excessive Extracellular Volume Contributes to White Matter Abnormalities in the Early Stages of Schizophrenia,*” at the Centennial Celebration of Massachusetts Mental Health Center, Boston, MA, June 15, 2012.

Paper presented, “*Estimation of Extracellular Volume from Regularized Multi-Shell Diffusion MRI.*” MICCAI, October 1-5, 2012, Nice, France.

Speaker at the first Conference on Chronic Traumatic Encephalopathy sponsored by the Cleveland Clinic Lou Ruvo Center for Brain Health and Boston University, “*Role of Neuroimaging in CTE Detection: MRI, MRS, and Emerging PET Tau Imaging,*” October 1, 2012, Las Vegas, Nevada.

Speaker, External Advisory Board, Clinical Consortium for TBI and PTSD, “*Progress in Neuroimaging Acquisition Protocols and Post-Processing Measures for the Clinical Consortium Sites.*” San Diego, CA, November 28, 2012.

2013 Invited Speaker, “*Advanced Imaging in Mild TBI*” at the 93rd New England Roentgen Ray Society, January 11, 2013, Boston, MA.

Invited Speaker, “*Utilizing Advanced Neuroimaging to Provide Insights into Mild Traumatic Brain Injury and Repetitive Brain Trauma: DTI, MRS, and Emerging PET Tau Imaging,*” The 3rd Annual Traumatic Brain Injury Conference, March 7, 2013, Washington, DC.

Invited Speaker, “*Advances in Neuroimaging and Their Application to Schizophrenia and Mild Traumatic Brain Injury.*” Talk given to PGYII Residents in Psychiatry at the South Shore Residency Training Program in Psychiatry, Harvard Medical School. March 10, 2013.

Invited Talk, “*Application of Neuroimaging to Understand Schizophrenia and Mild Traumatic Brain Injury.*” Talk given to VISN Chief, Dr. Michael Mayo-Smith, March 13, 2013.

Invited Speaker, “*Advanced Neuroimaging Techniques Applied to Schizophrenia, Mild Traumatic Brain Trauma, and Repetitive Brain Trauma,*” Neuroscience and Brain Seminar Series, Children’s Hospital, Harvard Medical School, Boston, MA April 18, 2013.

Invited Speaker, “*The Role of Neuroimaging in mTBI, Schizophrenia, and CTE: DTI, MRS, and Emerging PET Tau Imaging in CTE.*” BRAINMAP seminar series, Martinos Center, Charlestown Navy Yard, May 15, 2013.

Invited Speaker, “*The Role of Advanced Neuroimaging in mTBI and CTE: DTI, MRS, and Tau Imaging.*” Special Lectures of Recent Psychiatry Neuroimaging, Department of Neuropsychiatry, Kansai Medical University, Hotel Agora Osaka, Japan, June 24, 2013.

Chair (Co-Chair Dr. Marek Kubicki), Symposium, “*New Developments in White Matter Imaging in Schizophrenia, Towards Understanding Pathology.*” 11th World Congress of Biological Psychiatry, June 27, 2013, Kyoto, Japan.

Invited Speaker, “*The Role of Advanced Neuroimaging in CTE: DTI, MRS, and Emerging PET Tau Imaging,*” Brain Trauma-Related Neurodegeneration Workshop, sponsored by the *National Institute of Neurological Disorders and Stroke (NINDS)*, August 12, 2013.

Invited Speaker, “*Perspectives on Challenges of Reproducibility and Variability in Diffusion MRI,*” part of workgroup on “*Developing Standards for Diffusion Magnetic Resonance Imaging, a Meeting of Experts,*” sponsored by the *Institute of Medicine of The National Academies*. August 22, 2013.

Invited Speaker, “*MR and Diffusion Tensor Imaging in Schizophrenia and in Mild Traumatic Brain Injury,*” Bouve College of Health Sciences, Northeastern University, December 2, 2013.

2014 Oral presentation, TBI Neuroimaging Interim Progress Report, *Congressionally Designated Medical Research Program (CDMRP)*, “*Tau Imaging in Chronic Encephalopathy,*” Fort Detrick, Maryland, January 31, 2014.

Invited talk, “*Characterization of Acute Diffusion MRI Abnormalities following Concussion using a Joint Distribution Free-Water Imaging Normative Atlas.*” *International Brain Injury Association Tenth World Congress on Brain Injury (IBIA)*. March 2014. San Francisco, USA

Invited Speaker (co-author), “*Identification of Atrophy, Excitotoxicity and Gliosis in the White Matter of Retired NFL Players.*” *International Brain Injury Association Tenth World Congress on Brain Injury (IBIA)*. March 2014. San Francisco, USA.

Invited Speaker (co-author), “*White matter microstructure and cortical thickness in former NFL players.*” *International Brain Injury Association Tenth World Congress on Brain Injury (IBIA)*. March 2014. San Francisco, USA.

Chair (Co-Chair with Dr. Robert Stern), Symposium on Chronic Traumatic Encephalopathy, “*Advanced Neuroimaging in CE and Repetitive Concussive and Subconcussive Head Trauma,*” *International Brain Injury Association Tenth World Congress on Brain Injury (IBIA)*. March 2014. San Francisco, USA.

Invited Speaker, “*Regional Metabolite Profiles in Chronic Sports-Related Concussion,*” *International Brain Injury Association Tenth World Congress on Brain Injury (IBIA)*. March 2014, San Francisco, USA.

- Invited Speaker, “*Diffusion Tensor Imaging in Mild Traumatic Brain Injury.*” Vanderbilt University Medical Center-NICOE TBI Imaging Workshop, August 29, 2014. Nashville, TN.
- Invited presentation, “*New Diffusion Tensor Imaging Methods and their Application to the TRACTS Project,*” December 3, 2014, Harvard Faculty Club, TRACTS program VABHS.
- 2015 Co-Chair (with Dr. Marek Kubicki), Symposium on *Neuroinflammation, White Matter, and Schizophrenia*, 15th International Congress on Schizophrenia Research, March 29, 2005, Colorado Springs, CO.
- Invited Presentation, in Symposium on *Neuroinflammation, White Matter, and Schizophrenia*, “*Diffusion MRI for the Identification of Neuroinflammation in Schizophrenia: Findings and Challenges,*” 15th International Congress on Schizophrenia Research, March 29, 2005, Colorado Springs, CO.
- Invited Presentation at the MGH Center for Law, Brain, & Behavior, “*Diffusion Tensor Imaging, Mild Traumatic Brain Injury and its Admissibility as Evidence in Litigation,*” May 12, 2015, Boston, MA.
- Invited Speaker, Honors Lecture in Psychology, University of Minho, “*Neuroimaging: MR, Diffusion Tensor Imaging, and PET Imaging in Mild Traumatic Brain Injury,*” September 14, 2015, Braga, Portugal.
- Invited Speaker, 2015 Traumatic Brain Injury Workshop, Sponsored by the Center for Computational Neuroscience & Neural Technology, “*Neuroimaging Advances in Mild Traumatic Brain Injury,*” September 18, 2015, Boston University, Boston, MA.
- Symposium on *Imaging in Subconcussive Brain Injury*, Invited Speaker, “*Advances in Neuroimaging Mild Traumatic Brain Injury.*” American Academy of Physical Medicine and Rehabilitation 2015 Annual Assembly, October 1, 2015, Boston, MA.
- 2016 Invited Speaker, McLean Imaging Center Speaker Series, “*Neuroimaging: MR, Diffusion Tensor Imaging, and PET Imaging in Mild Traumatic Brain Injury,*” March 9, 2016, Belmont, MA.
- Invited Speaker, Neuroscience Grand Rounds in Neurology, Tufts University School of Medicine, “*MR Imaging in Schizophrenia and Mild Traumatic Brain Injury,*” April 14, 2016.
- Invited Speaker, VA National Research Week, VA Boston Healthcare System Symposium: *Recent Advances in Understanding and Treating Schizophrenia*. Talk: “*Advances in Neuroimaging Techniques and Their Application to Schizophrenia,*” May 19, 2016.
- Invited Speaker, Brigham and Women’s Hospital Radiology Research Symposium: *Reflecting Back, Advancing Forward*. Talk: “*Neuroimaging Advances in Schizophrenia and Mild Traumatic Brain Injury,*” June 3, 2016, Boston, MA.
- Invited Speaker, *Chronic Traumatic Encephalopathy (CTE) Conference*. Talk: “*Imaging Biomarkers of CTE in Humans.*” Boston University School of Medicine, Boston, MA, November 4, 2016.
- Invited Speaker, “*Advanced Imaging in Schizophrenia,*” Special Interest Session: Imaging Cognition 2016: Psychosis. RSNA Annual Meeting, November 28, 2016, Chicago, Ill.
- 2017 Oral Presentation, “*The Extent of Extracellular and Brain Tissue Related Abnormalities in Subjects at Clinical High Risk for Psychosis,*” 16th International Congress of Schizophrenia Research (ICOSR), March 25, 2017, San Diego, CA.

Oral Presentation, “*Frontostriatal Miswiring in Schizophrenia*”, presented in *Structural Brain Imaging symposia, 16th International Congress of Schizophrenia Research (ICOSR)*, March 27, 2017, San Diego, CA.

Oral Presentation, “*Female Specific Excessive Extracellular Free-Water in Prodromal Schizophrenia*,” presented in *Structural Brain Imaging symposia, 16th International Congress of Schizophrenia Research (ICOSR)*, March 27, 2017, San Diego, CA.

Oral Presentation, “*Changes in Fronto-Thalamic Connectivity are Associated with Prodrome Psychosis in Young Adults with 22q11.2 Syndrome*,” presented in *Structural Brain Imaging symposia, 16th International Congress of Schizophrenia Research (ICOSR)*, March 27, 2017, San Diego, CA.

Invited Speaker, Pre-Conference Symposium: *A Picture is Worth a Thousand Words (When there is a Common Language): Overcoming Obstacles in TBI Neuroimaging Research*, Talk: “*Neuroimaging Advances: Mild Traumatic Brain Injury*,” *International Brain Imaging Association (IBIA) 12th World Congress*, New Orleans, March 29, 2017.

Talk, “*Hippocampus and Cingulate Gyrus Volume Reductions are Associated with Neurobehavioral Dysfunction in Former NFL Players*.” In session entitled *Neurodegeneration and Chronic Traumatic Encephalopathy*. *International Brain Imaging Association (IBIA) 12th World Congress*, New Orleans, March 30, 2017.

Talk, “*Increased Gray Matter Fractional Anisotropy in the Left and Right Occipital Lobe in Symptomatic Former Professional Football Players*.” *International Brain Imaging Association (IBIA) 12th World Congress*, New Orleans, New Orleans, March 30, 2017.

Talk, “*Age at First Exposure to Repetitive Head Impacts is Associated with Smaller Thalamic Volumes in Former Professional Football Players*.” In session entitled *Neurodegeneration and Chronic Traumatic Encephalopathy*. *International Brain Imaging Association (IBIA) 12th World Congress*, New Orleans, New Orleans, March 30, 2017.

Invited Talk, *Ferenc Jolesz Research Seminar Series*, Department of Radiology, Brigham and Women’s Hospital, “*Imaging in CTE and Repetitive Head Trauma*,” October 2, 2017.

2018 Invited Talk, *Center for Brain/Mind Medicine*, Brigham and Women’s Hospital and Harvard Medical School, “*Neuroimaging Advances in Schizophrenia and Mild Traumatic Brain Injury*,” February 21, 2018.

The Peter Basso Keynote Lecture entitled, “*Advances in Neuroimaging Applications to Schizophrenia and Mild Traumatic Brain Injury*,” the *American Neuropsychiatric Association*. March 23, 2018, Boston, MA.

Presentation as Part of Panel, *Defense Research Institute (DRI)*; Session: “*Traumatic Brain Injury: Battling Back Against Public Perception*,” Panel Presenter, “*Mild Traumatic Brain Injury in the Courtroom: The State of the Science*,” April 26, 2018, Nashville, TN.

Grand Rounds Presentation, Department of Psychiatry, Mount Sinai Medical Institute, “*Advances in Neuroimaging Applications to Schizophrenia and Mild Traumatic Brain Injury*,” NY, NY, May 22, 2018.

Discussant, Symposium: “*The Neurobiology of Conversion to Psychosis – Emerging Findings from the Sharp Study*.” *The 11th Annual Conference on Early Intervention in Mental Illness. Prevention and Early Interventions: Broadening the Scope*. *IEPA 11 Boston: The International Early Psychosis Association (IEPA)*, October 10, 2018, Boston, MA.

Talks (co-author), Symposium: “*The Neurobiology of Conversion to Psychosis – Emerging Findings from the Sharp Study.*” Talks entitled: “*Morphometric Analyses of SHARP Clinical High Risk for Psychosis Subjects,*” also “*Microstructural White Matter Alterations in Clinical High Risk Subjects from the SHARP Project,*” “*Abnormal Modular Organization of the Functional Connectome Predicts Conversion to Psychosis in Clinical High Risk Youth,*” and “*Abnormal Mismatch Negativity Duration at Baseline Distinguishes Remitted from Non-Remitted Clinical High Risk for Psychosis Individuals.*” *The 11th Annual Conference on Early Intervention in Mental Illness. Prevention and Early Interventions: Broadening the Scope. IEPA 11 Boston: The International Early Psychosis Association (IEPA),* October 10, 2018, Boston, MA.

Discussant, Symposium: “*Discovering New Brain Circuits in Early Psychosis.*” *The 11th Annual Conference on Early Intervention in Mental Illness. Prevention and Early Interventions: Broadening the Scope. IEPA 11 Boston: The International Early Psychosis Association (IEPA),* October 8, 2018, Boston, MA.

Keynote Speaker: “*Advances in MR Imaging and Their Application to Schizophrenia and Mild Traumatic Brain Injury.*” *Medical Imaging & Case Reports (MICR 2018; October 29-31, 2018),* October 29, 2018, Baltimore, MD).

2019 Discussant, Panel Discussion: “*Neuroimaging Modalities. Best Practices and Technologies for Biomarker Discovery and Development,*” sponsored by Cohen Veterans Bioscience; *RAPID-DX (Research Alliance for PTSD/TBI Innovation & Discovery - Diagnostics.* Hyatt Regency, Cambridge, MA, May 6, 2019.

Invited Speaker: *Scientific Symposium to honor Dr. Larry Seidman, Massachusetts Neurological Society Annual Meeting, Bentley College, Waltham, MA, May 14, 2019.*

Report of Clinical Activities

1979-1984	Research Fellow in Psychopathology, Psychology Laboratory, Mailman Research Center, McLean Hospital, Belmont MA, Harvard Medical School
1982-1983	Clinical Practicum/Clerkship, Psychology Department, McLean Hospital, Belmont MA, Harvard Medical School
1984-1994	Diagnostic evaluations at the Massachusetts Mental Health Center, then VA Boston Healthcare System, Brockton Division, Brockton MA, and McLean Hospital, Belmont, MA
1985-1986	Clinical Practicum/Clerkship, Psychology Department, Massachusetts Mental Health Center, Boston, MA, Harvard Medical School.

Other

Summer 1995	Consultant for Drs. Jane Murphy and Alexander Leighton; performed SCID interviews for a Psychiatric Epidemiology Study in Atlantic Canada.
2001	2001: ESI Special Topics in Schizophrenia, ISI Thomson Scientific: Interview with Dr. Shenton. http://esi-topics.com/schizophrenia/interviews/dr-martha-shenton.html
2003	2003: Dr. Shenton’s publication entitled, “Amygdala-hippocampal shape differences in schizophrenia: the application of 3D shape models to volumetric MR data”, published in <i>Psychiatry Research</i> . 2002;1151-2:15-35, and her paper entitled, “Deformable organisms for automatic medical image analysis,” published in <i>Med Image Analysis</i> 2002;Sept;6(3):251-266, were both selected for publication in the 2004 <i>IMIA</i>

Yearbook of Medical Informatics: Towards Clinical Bioinformatics, an overview of the most excellent, original, and state-of-the-art research in the area of Health and Medical Informatics.

- 2007
- December 2007: Dr. Shenton was featured in *The Scientist*, in a special supplement on schizophrenia. Read [article](#).
- Winter 2007: Read [article](#) on the advances in schizophrenia research featured in [Brigham and Women's magazine](#).
- 2007: [<http://www.esi-topics.com/schizophrenia/index.html>] provides information for the decade of the 90's (1981-1999) on schizophrenia research, where they review 19,506 papers, 24,088 authors, 101 countries, 1,139 journals, and 5,514 organizations, and report that Dr. Shenton's 1992 *New England Journal of Medicine* is the 4th most cited paper out of 19,506, and she is the 14th most cited author out of 24,088 in the area of schizophrenia research.
- 2007: This website also includes an interview with Dr. Shenton for ESI special Topics in Schizophrenia, ISI Thomson Scientific [<http://www.esi-topics.com/sch2007/index.html>]. New information from 1997 to 2007 on schizophrenia research is provided, where ESI reviews 13,989 papers, 26,117 authors, 99 countries, 947 journals, and 6,863 organizations and report that Dr. Shenton is the 8th most cited author out of 13,989 papers in the area of schizophrenia research [<http://www.esi-topics.com/sch2007/authors/b1a.html>].
- 2008
- 2008: Her paper, MRI Findings in Schizophrenia, published in *Schizophrenia Research* in 2001, is also among the top breaking papers listed in ESI [<http://www.esi-topics.com/fbp/comments/october02-MarthaShenton.html>].
- 2008: In addition, Dr. Marek Kubicki, her close colleague, has an interview with ESI for having paper that is considered Fast Breaking because it is among the top 1% of papers cited over the last two years in the field of schizophrenia research [see <http://sciencewatch.com/dr/fbp/2008/08apr/fbp/08apr/fbpKubicki/>].
- 2008: Dr. Shenton is also a co-author on the 10th most cited PTSD paper in the 1990's in the area of PTSD research, based on ISI Thomson Scientific, website: [<http://esi-topics.com/ptsd/index.html>].
- December 2008: *ScienceWatch* lists Harvard University at the top of 20 institutions in Psychiatry and Psychology. ScienceWatch lists Harvard University at the top of 20 institutions in Psychiatry and Psychology based on total citations to papers published in Thomson Reuters-indexed Psychiatry and Psychology journals. These institutions are the top 20 out of a pool of 360 institutions comprising the top 1% ranked by total citation count in this field. Dr. Shenton is mentioned as a [highly cited Harvard Author](#).
- 2009
- August 2009: *Science Watch* Names Dr. Shenton as One of the Most Cited Researchers in the Last Decade: Top Citations for Institutions. Dr. Martha Shenton cited as among the top most cited researchers at Harvard: <http://sciencewatch.com/articles/most-cited-institutions-overall-1999-2009>
- August 2009: *Article in the Boston Globe*. August 2009: An article titled "Unfolding the mysteries of the brain" highlighting research progress in understanding cortical development appeared in *The Boston Globe*. Read article [here](#).
- 2008-2009: *William Silen Lifetime Achievement Award for Mentoring*. [Dr. Shenton](#) was the recipient of the William Silen Lifetime Achievement in Mentoring Award (2008-2009) by Harvard Medical School. See [here](#) for recipients of the award. The [award ceremony](#) (scroll down to see picture) was held on June 11, 2009 at Harvard Medical School.
- 2009: *Distinguished Investigator Award from the National Alliance for Research in Schizophrenia and Depression (NARSAD)*. [Dr. Shenton](#) received the Distinguished Investigator Award from the [National Alliance for Research in Schizophrenia and Depression \(NARSAD\)](#).

- 2010 *October 2010: Article in Atlantic Magazine.* An article on how a different MRI technique used in [Dr. Shenton's](#) lab may help in diagnosing football-induced injuries appeared in *the Atlantic*. Read article [here](#).
- August 2010: History Channel's Stan Lee's Superheros.* [Dr. Shenton](#) appears on History Channel's Stan Lee's Superhumans - Hammer Head episode where she discusses skull thickness of a man who drives spikes into boards with his head. View [episode](#).
- 2011 *January 2011: A new book titled [Understanding Neuropsychiatric Disorders](#) edited by Drs. [Shenton](#) and [Turetsky](#) is now available from Cambridge University Press.*
- 2012 *February 2012: [Psychiatry Newsletter Update](#) highlights traumatic brain injury studies in the Psychiatry Neuroimaging laboratory including Drs. [Martha Shenton](#), [Ofer Pasternak](#), and [Alex Lin](#).*
- April 2012: [Dr. Shenton's research paper](#) listed as the [seventh top most downloaded article in 2011](#).*
- July 2012 NARSAD Young Investigator Award: [Dr. Pasternak](#) was awarded the [National Alliance for Research in Schizophrenia and Depression](#) (NARSAD) Young Investigator Award of the Brain and Behavior Research Foundation. This was awarded for his research project entitled, "Free-Water as a Novel Biomarker for the Investigation of Inflammation and Degeneration Dynamics in Schizophrenia", with [Drs. Shenton](#) and [Kubicki](#) as co-mentors.*
- November 2012: [Harvard Medicine News](#) featured Drs. [Martha Shenton](#), [Ross Zafonte](#), and [Joseph Giacino](#) in a piece describing the utility of [DTI](#) in characterization of mild [TBI](#). (See also: [Wounded, Deeply](#), a video preview of the Autumn 2012 issue of Harvard Medicine magazine, featuring Dr. Shenton.)*
- November 2012: [Dr. Inga Koerte's](#) and senior author [Dr. Martha Shenton's JAMA paper](#) (see [Brigham Press Release](#) and [Ludwig-Maximilians-Universität](#)) garnered international attention, as it was the first original research to suggest that the sub-concussive hits experienced by elite soccer players are associated with alterations in white matter. Her work was featured in [TIME Magazine](#), [US News](#), [ABC News](#) (reposted from [MedPage Today \[see video\]](#)), [JAMA](#), [The Munich Eye](#), [Los Angeles Times](#), [Healthline](#), [ABC7Chicago](#), [Doctors Lounge](#), [The Week Magazine](#), [Harvard Medicine News](#), [Medical Daily](#), and [Elite Daily](#). See also: <http://healthhub.brighamandwomens.org/tag/martha-shenton>.*
- November 2012: Cleveland Clinic Center for Brain Health CTE Conference Series.* Drs. [Martha Shenton](#), [Inga Koerte](#) and [Robert Stern](#) were featured in [Part 2](#), [Part 5](#) and [Part 6](#) of the six part CTE Conference series report. The article highlights the cohort study, "Diagnosing and Evaluating Traumatic Encephalopathy using Clinical Tests" (DETECT) which is led by Drs. Stern and Shenton. The study is the first CTE program funded by the NIH and hopes to develop a research diagnostic criteria for chronic traumatic encephalopathy. ([Read a PDF of the entire series here](#).)
- December 2012: Ice Hockey Players Show Deficits in White Matter After One Season.* Led by first author [Dr. Inga Koerte's](#) and senior author [Dr. Martha Shenton](#), published findings on concussions and white matter integrity in hockey players in the [Journal of Neurosurgery \(full text\)](#). This high impact paper was covered in the [New York Times](#), [SlapShot \(New York Times featurette\)](#), [The Globe and Mail](#), [Vancouver Sun](#), and on [CJAD Talk Radio \(hear interview with Dr. Paul Echlin\)](#).
- December 2012: 2012 Lloyd Braga Endowed Chair.* [Dr. Shenton](#) was awarded the [2012 Lloyd Braga Endowed Chair](#) from the University of Minho, Braga, Portugal. (See a video clip [here](#).)
- 2013 *2013 to the present: Expert Testimony for Traumatic Brain Injury Cases where Diffusion Tensor Imaging and Other Advanced Neuroimaging Techniques are Employed.*
- January 2013: Commentary in Alzheimer's Forum: "In Former Footballers, MRI Links Cognitive Problems to Axon Damage": <http://www.alzforum.org/new/detail.asp?id=3375>*

January 2013: Commentary in Alzheimer's Forum: comments on the recent study of tau neurofibrillary tangles in retired NFL players were published in [Alzheimer Research News](#).

January 2013: *Head trauma in Soccer Players*. [Latitude News](#) featured [Dr. Inga Koerte](#) and [Dr. Ross Zafonte](#) in an article discussing the impact that brain trauma can have on white matter in the brain. Their research was also featured on [The Brigham and Women's Hospital Health Blog](#).

March 2013: In an interview with [Imaging in Medicine Journal](#), Dr. [Martha Shenton](#) discusses the PNL's role in pioneering the use of advanced MRI techniques in the study of schizophrenia and, more recently, mild Traumatic Brain Injury.

March 2013: In a recent publication in [Science Magazine](#), Dr. [Martha Shenton](#) describes the importance of new-sophisticated MRI techniques that can reveal microscopic damage to axons and brain lesions characteristic of mTBI.

March 2013: Drs. [Martha Shenton](#), [Inga Koerte](#) and [Ross Zafonte](#)'s high impact [JAMA paper](#) on sub-concussive hits experienced by soccer players was highlighted in "[Sueddeutsche Zeitung](#)", a high-profile newspaper in Germany; and in [Neurology Today](#).

April 2013: *What Heterogeneity Breeds: A Diverse Workplace in the Psychiatry Neuroimaging Laboratory*. The BWH Psychiatry Neuroimaging Laboratory was this month's feature story in [BWH Clinical and Research News](#). The story highlights the diverse group of researchers at the PNL that are spearheading the use of state-of-the-art neuroimaging in TBI, schizophrenia and more.

April 2013: *Sports-Related Head Injuries and Memory*. Drs. [Inga Koerte](#) and [Martha Shenton](#)'s influential paper on brain trauma in soccer players continues to make headlines. Recently, they were featured in the German Center of Research and Innovation [newsletter](#).

May 2013: *Fatal Acceleration*. The PNL was featured in [ZEIT](#), Germany's most prestigious weekly newspaper. The article discusses how even minor brain injuries can have fatal consequences. It particularly highlights Drs. [Inga Koerte](#) and [Martha Shenton](#)'s research on brain trauma in soccer players as a result of "headers".

June 2013: *Headers Linked to Memory Deficits in Soccer Players*. Drs. [Martha Shenton](#) and [Inga Koerte](#) discussed the brain abnormalities associated with "headers" in a recent article in [Science News](#).

July 2013: *A Brain Gone Bad*. Journalist Paul Voosen describes the PNL's study on chronic head trauma, detailing the experience of an NFL player who participated in the study. Click [here](#) to read about Patient 53 and his time with us at the Psychiatry Neuroimaging Laboratory.

2014
February 2014: PNL Study Finds Changes in Brains of Hockey Players Who Had Concussions. A series of recently published papers in the [Journal of Neurosurgery](#) (Click for [Part 1](#), [Part 2](#), and [Part 3](#).) by Drs. [Martha Shenton](#), [Ofer Pasternak](#), [Inga Koerte](#), [Sylvain Bouix](#), [Takeshi Sasaki](#), [Marek Kubicki](#), [Peter Savadjiev](#), [Michael Mayinger](#), [Marc Muehlmann](#) and research assistant [Eli Fredman](#) has garnered international media attention and been featured in the [New York Times](#), [The Globe and Mail](#), The Sports Network, [Fox News](#), and The Calgary Herald. This was also featured in Brain and Behavior Research Foundation where Drs. Martha Shenton and Ofer Pasternak were featured as two NARSAD investigators, NARSAD Distinguished and Young Investigator, respectively (see [Brain and Behavior Research Foundation](#))

March 2014: *Testimony before the United States House of Representatives, House Energy and Commerce Committee, Subcommittee on Commerce, Manufacturing, and Trade, at a hearing entitled "Improving Sports Safety: A Multifaceted Approach"*, Rayburn House Office Building, Washington, D.C., March 13, 2014, <http://www.c-span.org/video/?318281-2/sports-safety-brain-injuries-scientific-panel> (Panel two begins at 1:44:49 and Dr. Shenton's testimony begins at 2:23:38).

May 2014: “Ban Heading in Youth Soccer,” by Derrick Z. Jackson, Opinion in Sunday Boston Globe article where [Dr. Inga Koerte's](#) and [Dr. Martha Shenton](#) are cited for their research in reporting alterations in white matter in elite soccer players who have experienced subconcussive blows to the head but not concussion: <http://www.bostonglobe.com/opinion/2014/05/17/ban-heading-youth-soccer/F0jPt3oMlfajNfuphDFO8J/story.html> (see also above under November 2012, JAMA publication).

June 2014: *List of Top 20 Articles*, in the Domain of Article 20954428, since its publication (2010): <http://biomedupdater.com/>.

July 2014: VA HSR&D CYBERSEMINAR: Mild TBI Diagnosis and Management Strategies. Diffusion Tensor Imaging Findings in Mild Traumatic Brain Injury. http://www.hsr.d.research.va.gov/for_researchers/cyber_seminars/archives/video_archive.cfm?SessionID=867.

September 2014: AANS Neurosurgeon. Sports-Related mTBI: A Public Health Ethical Imperative Act. <http://www.aansneurosurgeon.org/features/sport-related-mtbi-a-public-health-ethical-imperative-to-act/>.

2015 January 2015: BioMedUpdater: “Who is publishing in my Domain?” Top Articles Cited since 2012: Drs. [Shenton](#), [Whitford](#), and [Kubicki](#)’s paper: “[Structural neuroimaging in schizophrenia: from methods to insights to treatments](#)” (2010) placed first on BioMedUpdater’s top articles since 2010 list. See the entire list [here](#).

February 2, 2015: Quoted on an article entitled “Concussion case: An Unsettling Wait, in [ColumbiaSportsJournalism.com](#)/.

August 10, 2015: Altered brain development among former NFL players, study suggests the influence of on the brain of development, reported in [Science Daily](#).

August 11, 2015: A study by Drs. [Julie Stamm](#), [Inga Koerte](#), [Robert Stern](#), and [Martha Shenton](#) on the effects of early-age football on brain development has been making headlines. This influential research, published in the [Journal of Neurotrauma](#), has been featured in the [Boston Globe](#), [Science Daily](#), [PBS](#), and [Redorbit](#).

September 2015: Paper Co-Authored by PNL Investigators Wins 2014 Nelson Butter’s Award. A paper authored by [Rael T. Lange](#), [William J. Panenka](#), [Jason R. Shewchuk](#), [Manraj K. S. Heran](#), [Jeffery R. Brubacher](#), [Sylvain Bouix](#), [Ryan Eckbo](#), [Martha E. Shenton](#), and [Grant L. Iverson](#) has won the Nelson Butters Award for Research Contributions to Clinical Neuropsychology for 2014. This award is annually given to the most influential scholarly paper published in [Archives of Clinical Neuropsychology](#). The paper, Diffusion Tensor Imaging Findings and Postconcussion Symptom Reporting Six-Weeks Following Mild Traumatic Brain Injury, published in 2015 (paper accepted in 2014), can be found [here](#).

September 2015: Drs. [Shenton](#) and [Pasternak](#) contributed to research that led to a junior scientist awarded medal, the “[Johann Peter Süßmilch-Medal 2015](#),” to [Dr. Klaus Herman Maier-Hein](#) by the German Society of Medical Informatics, Biometry, and Epidemiology (GMDS). This award is the highest award given by the GMDS. Dr. Klaus Herman Maier-Hein was lead author on the research that led to this award. The research focused on white matter degeneration that precedes the onset of dementia, which was published in the journal [Alzheimer's Forum](#).

December 22, 2015: Dr. [Shenton](#) is one of 4 principal investigators, along with Dr. [Robert Stern](#) from Boston University, [Dr. Jeffry Cummings](#) of the Cleveland Clinic, and [Dr. Eric Reiman](#) of Banner Alzheimer’s Institute, have been awarded a \$16 million grant from the National Institutes of Health/National Institute of Neurological Disorders and Stroke (NIH/NINDS) to develop methods for diagnosing chronic traumatic encephalopathy (CTE) during life. CTE, a neurodegenerative disease often found in professional football players, boxers, and other athletes who have a history of brain trauma, currently be diagnosed only by autopsy. The announcement of this award has received a great deal of attention in the press: [Press Release](#), [WBUR](#), [ESPN](#).

December 2015: [Dr. Martha Shenton](#) speaks to Boston University's WBUR-FM ([WBUR](#)) about the symptoms and risk of Chronic Traumatic Encephalopathy following the announcement of a large, multi-million dollar NIH grant that will study this disorder. This grant was initially expected to be funded by the National Football League. Dr. Shenton is one of four principal investigators with the other principal investigators being [Drs. Robert Stern](#), [Cummings](#), and [Reiman](#).

December 2015: [NFL Backs Away From Funding a Boston University Brain Study; NIH to Fund It Instead](#). ESPN reporters tackle the controversy that a \$30 million dollar donation from the National Football League will no longer be used to fund a new Chronic Traumatic Encephalopathy (CTE) grant. [Dr. Martha Shenton](#) is one of four Principal Investigators, the others being [Drs. Robert Stern](#), [Cummings](#), and [Reiman](#), on this unprecedented multi-center NIH supported grant, which will investigate CTE in former NFL players and college athletes.

December 2015: [16 Million for Brain Research, but \\$0 from the NFL](#). The New York Times offers perspective on the National Institute of Health's decision to directly fund a new Chronic Traumatic Encephalopathy grant, on which [Dr. Martha Shenton](#) is a Principal Investigator, instead of using National Football League money. Other principal investigators are: [Drs. Robert Stern](#), [Cummings](#), and [Reiman](#).

December 2015: [Boston University Reports on the New NIH/NINDS Grant Awarded to Develop Methods for Diagnosing Chronic Traumatic Encephalopathy During Life](#). Boston University Public Relations discusses the new grant awarded to four Principal Investigators, [Drs. Robert Stern](#), [Cummings](#), [Reiman](#), and [Martha Shenton](#), that will fund a new seven-year, multi-center study focused on Chronic Traumatic Encephalopathy diagnosis and risk factor identification.

2016 January 4, 2016: Dr. [Shenton](#) is featured on Brigham and Women's "[Awards, Honors and Grants](#)" News Page for the recent grant she was awarded together with investigators from Boston University, the Cleveland Clinic and Banner Alzheimer's Institute to study Chronic Traumatic Encephalopathy.

January 2016: [The Real Science Behind Concussions](#). The scientific journal *Laboratory Imaging*'s news [Cover Story](#) reviews novel, state of the art imaging techniques that can be used to study diseases in the living brain. The article discusses how these imaging techniques have led to new insights into Chronic Traumatic Encephalopathy, and Dr. [Martha Shenton](#) is interviewed, explaining how these techniques will be used in the new "Diagnose CTE" grant.

Winter 2016: The most recent issue of "[Psychiatry Advances](#)" details Drs. [Martha Shenton](#), [Inga Koerte](#) and Julie Stamm's recent imaging study on former NFL players, and discusses other technological imaging advances made by members of the lab Drs. [Yogesh Rathi](#), [Ofer Pasternak](#) and [Peter Savadjiev](#).

June 2, 2016: [WBUR News and Radio Station LIVE Interview: "Massive Study of Degenerative Brain Disease to Begin"](#). During the first annual investigator meeting for the new "Diagnose CTE" grant, Boston's WBUR conducted an [interview](#) with the study's contact Principal Investigator [Robert Stern](#), as well as with the former NFL player [Tim Fox](#), who is helping support and advocate for the research. Drs. [Cummings](#), [Reiman](#), and [Shenton](#) were also mentioned in this important new study aimed at detecting CTE in living former NFL players and former college football players. Hear the live interview [here](#) with Stern and Fox as they describe the merits of this study and how it will help people like [Tim Fox](#).

June 2, 2016: [CTE Research Moves On, Even Without the NFL's Money](#). The new grant coined "Diagnose CTE" had its first annual investigator meeting on June 1st and 2nd of 2016, despite an initial setback that occurred when the NFL pulled their funding from the grant. [Dr. Martha Shenton](#) and the Psychiatry Neuroimaging Lab will be involved in neuroimaging aspects of this grant [CTE-Research](#) covered a [story](#) on the grant, its goals, and the "top brain scientists" in charge of the study that was widely cited across the news, being shared by US News & World Report, ESPN, Fox News, Boston Herald, USA Today, Yahoo, Business Insider, and countless other news sources.

June 2, 2016: [Principal Investigators for New Chronic Traumatic Encephalopathy Grant Meet as Their Study Begins](#). The new seven year, 16 million dollar grant entitled “Chronic Traumatic Encephalopathy: Detection, Diagnosis, Course, and Risk Factors” had its first annual investigator meeting on June 1st and

June 2, 2016: The four principal investigators (PI) on this grant met at Boston University School of Medicine along with site investigators and staff from around the country. The Principal Investigators are: [Robert Stern](#), Ph.D., the contact PI, and, listed alphabetically, [Jeffrey Cummings](#), M.D., [Eric Reiman](#), M.D., and [Martha Shenton](#), Ph.D. – pictured [CTE PI Meeting](#) at this meeting.

June 3, 2016; [BU Today](#) interviews contact Principal Investigator [Dr. Robert Stern](#), as well as the other PIs, Drs. [Cummings](#), [Reiman](#), and [Shenton](#) and former NFL player [Tim Fox](#). The interview includes a description of the 50 scientists from BU MED and the school of public health, the Cleveland Clinic, the Banner Alzheimer’s Institute, the Mayo Clinic and Brigham and Women’s Hospital, and other major institutions around the country who gathered together on Wednesday, June 1st to launch their landmark, seven-year, \$16 million [National Institutes of Health](#) (NIH) and [National Institute of Neurological Disorders and Stroke](#) (NINDS)–funded study aimed at diagnosing CTE, a degenerative brain disease, during life.

June 6, 2016: [Invaluable Answers to Come From the Diagnose CTE Study](#). A recent [article](#) by USA TODAY describes how developing a diagnostic test for Chronic Traumatic Encephalopathy will make additional breakthroughs possible, such as understanding the disease’s underlying pathology and developing treatments for it. Drs. [Robert Stern](#) and [Martha Shenton](#) contribute to the article and explain their excitement to begin the new “Diagnose CTE” study.

June 10, 2016: [Brigham and Women’s Hospital “Awards, Honors and Grants” Page Features Dr. Martha Shenton for Human Connectome Award](#). Dr. [Martha Shenton](#) is featured on Brigham and Women’s “Awards, Honors, and Grants” [News Page](#). Dr. Shenton recently received an award from the National Institute of Mental Health for \$5.35 million to fund research focused on studying neural connections in early psychosis. This research effort is part of the Human Connectome Project. Dr. Breier is a multiple PI on this project and Drs. [Larry Seidman](#), [Dost Ongur](#), and [Daphne Holt](#) are site principal investigators on this project.

July 2016: [The Brigham Research Institute](#) shared an article originally published in [USA Today](#), highlighting Dr. [Martha Shenton](#)’s important involvement in research at Brigham and Women’s Hospital. The article looks optimistically at the new DIAGNOSE CTE study, and at the breakthroughs it will lead to in understanding the disorder, its diagnosis, and potential treatments. This superior understanding will minimize the controversy surrounding the NFL pulling its expected funding from the study.

December 2016: The U.S. Department of Defense’s Congressionally Directed Medical Research Programs (CDMRP) funded The Post-Traumatic Stress Disorder and Traumatic Brain Injury Clinical Consortium where Dr. [Martha Shenton](#) has been the lead on the neuroimaging aspects of this 10 site clinical consortium to understand and to treat those afflicted with PTSD and traumatic brain injury. An [article](#) is featured on their [home page](#), which discusses The Injury and Traumatic Stress (INTRuST) study for PTSD and TBI, and the advancements that have been made in acquiring and analyzing structural, DWI and SWI neuroimages for this study. The PNL has been instrumental in developing and employing the imaging tools discussed in this article. A list of published research articles related to the INTRuST project is also included in the article for further exploration.

2017 *February 2017:* The United Kingdom’s Professional Football Association Faces Pressure to Fund New Soccer Research Following Findings From Inga Koerte’s Study. A study conducted by [Dr. Inga Koerte](#) on German football players was recently brought to the attention of the UK’s Professional Football Association (PFA) by individuals hoping that the PFA will fund independent research on the effects heading in soccer on the brain. [Dr. Koerte](#) and [Dr. Martha Shenton](#) discuss the study, which found white matter alterations in the brains of professional soccer players, in this [Independent News Article](#).

- 2018 March 23, 2018: Bassoe Lecture, “Advances in Neuroimaging Applications to Schizophrenia and Mild Traumatic Brain Injury.” 2018 Annual Meeting of the *American Neuropsychiatric Association*: <http://pnl.bwh.harvard.edu/education/seminars/>
- 2019 [Dr. Martha Shenton](#) is Quoted in Science: <https://www.sciencemag.org/news/2019/04/physicist-trying-make-sense-brain-s-tangled-networks>

Part II. REPORT OF SCHOLARSHIP

ORIGINAL RESEARCH ARTICLES (* = denotes past or present mentee/trainee)

(H-Index Google Scholar for all years = 111)(H-Index Web of Science for all years = 103)

(PMID: <http://www.ncbi.nlm.nih.gov/pubmed/?term=Shenton+ME+or+Shenton+M>)

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Thesis:

Doctoral Dissertation entitled, “Thought Disorder in Psychotic Patients and Their Families,” presented in partial fulfillment of the doctoral requirements, Department of Psychology, Harvard University (1984). Dissertation

Advisor: Professor Philip Holzman, Ester and Sidney Rabb Professor of Psychology. Dissertation Committee Members: Professors Philip Holzman, Brendan Maher, Steve Matthysee, David McClelland, and James Stellar.

Nonprint Materials:

The Anatomy Browser is a JAVA-based interactive teaching tool for learning human neuroanatomy. It enables the user to manipulate three-dimensional (3D) neuroanatomical models (derived from MR images) interactively on personal computers without specialized rendering hardware. The user can view models of the brain from several angles and can select structures to be annotated by name. The Anatomy Browser includes a hierarchical list of structures that can be expanded or collapsed in order to control the level of detail displayed. Currently there are more than 100 labeled neuroanatomical structures. The Anatomy Browser also enables the user to remove structures in order to view hidden structures and to control the level of opacity of selected structures. Additionally, the browser provides a cross-reference between the 3D model and three different cross-sections of the original MR image (i.e., sagittal, coronal, and axial). These interactive features, along with the browser's accessibility on the World Wide Web (<http://splweb.bwh.harvard.edu:8000/pages/java.html>), make it a valuable tool for teaching neuroanatomy. Other applications, based on the labeled neuroanatomical models, include: neurosurgical planning, and the automatic identification and delineation of neuroanatomical structures in new MR scans using warping techniques which use the list of structures as the template for warping the same structures in new MR scans.

Abstracts: (>2500 presented at professional meetings)