

Curriculum Vitae

Deborah M. Little, PhD

Professor of Psychiatry and Behavioral Sciences
The University of Texas Health Science Center at Houston

I. General Biographical Information

A. Personal

1. Full Name and Contact Information

Deborah M. Little, PhD
1941 East Road
Suite 3200
Houston TX 77054
Office+1 713 486-2524
Email: Deborah.M.Little@uth.tmc.edu

2. Citizenship

United States of America

3. Education

a. Undergraduate Education

1993-1997 BA, Psychology
Scripps College; Claremont, CA
Honors Thesis: *Evaluating the role of working memory as a predictor for complexity in written and verbal discourse in older and younger adults.*
Advisor: Alan A. Hartley PhD

b. Graduate Education

1997-1999 MA, Psychology
Brandeis University; Waltham, MA
Source of Support: NIA Predoctoral Fellow
Master's Thesis: *Effects of divided attention on self-paced listening: Sustained attention, resource allocation, and normal aging.*
Advisor: Arthur Wingfield DPhil

1999-2001 PhD, Psychology with a Specialization in Cognitive Neuroscience
Brandeis University; Waltham, MA
Source of Support: NIA Predoctoral Fellow
Doctoral Thesis: *Age and attentional constraints on the encoding and recall of spoken discourse.*
Advisor: Arthur Wingfield DPhil

c. Postgraduate Training

2002-2004 Postdoctoral Research Associate
Center for Magnetic Resonance Research
University of Illinois at Chicago; Chicago IL
Advisor: Keith Thulborn MD, PhD

2001-2002 Postdoctoral Research Associate
Department of Ophthalmology & Visual Sciences
University of Illinois at Chicago; Chicago IL
Advisor: Janet Szlyk PhD
Source of Support: Research Associate Investigator Award, Rehabilitation Research and Development, Department of Veterans Affairs

B. Academic Appointments

1. Current faculty position(s)

2019- Professor of Psychiatry and Behavioral Sciences
The University of Texas Health Science Center at Houston

2. Previous faculty position(s) at other institutions

2016-2019 Professor of Psychiatry and Behavioral Sciences (with tenure)
Beth K. and Stuart C. Yudofsky Division of Neuropsychiatry
Menninger Department of Psychiatry and Behavioral Sciences
Baylor College of Medicine; Houston TX

2011-2016 Professor (Tenured)
Department of Psychiatry and Behavioral Sciences (2011-present)
Department of Neurosurgery (2015-present)
Texas A&M University Health Sciences College of Medicine; Temple TX

2009-2011 Associate Professor (Indefinite Tenure (100% salary); early promotion in 4 years)
Departments of Neurology and Rehabilitation, Anatomy and Cell Biology, and Ophthalmology and Visual Sciences
University of Illinois College of Medicine; Chicago IL

2009-2011 Associate Research Professor
Department of Psychology
University of Illinois at Chicago; Chicago IL

2004-2009 Assistant Professor (Tenure Track)
Department of Neurology and Rehabilitation (Primary Appointment)
Department of Anatomy and Cell Biology (Secondary Appointment)
Department of Ophthalmology and Visual Sciences (Secondary Appointment, as of 2006)
Department of Psychology (Secondary Appointment, as of 2006)
University of Illinois College of Medicine; Chicago IL

3. Current courtesy faculty appointments at other institutions

2011- Adjunct Professor of Neurology and Rehabilitation
University of Illinois College of Medicine; Chicago IL

2016- Adjunct Professor of Psychiatry and Behavioral Sciences and Neurosurgery
Texas A&M University; Temple TX

C. Other information

1. Honors or Awards: titles, dates

2007 Fellow, Sigma Xi
2000 Graduate Research Award, American Psychological Association, Division 20, Retirement Research Foundation
2000 Dissertation Research Award, American Psychological Association
1997 Margaret Faust Thesis Award, Scripps College
1996 Langland Psychology Award, Scripps College
1996 Scripps College Junior Fellow, Scripps College
1995 Esterly Award for Summer Research, Scripps College
1994 Division III Regional All-American, Women's Soccer
1994 Southern California Intercollegiate Athletic Conference, First Team, Women's Soccer

2. Other non-academic positions: (with locations, titles, dates of employment)

2019- Director of Research
Trauma and Resilience Center
The University of Texas Health Science Center at Houston

2014-2016 Director of Research
Director, Section on Veterans Biomedical Research
Neuroscience Institute; BaylorScott&White Health Central Division (Previously, Scott&White Healthcare); Temple TX

2014-2016 Director of Research and Research Education
Department of Psychiatry and Behavioral Sciences
BaylorScott&White Health Central Division (Previously, Scott&White Healthcare); Temple TX

2013-2016 Research Scientist II
BaylorScott&White Health Central Division (Previously, Scott&White Healthcare); Temple TX

2011-2013 Research Scientist
BaylorScott&White Health Central Division (Previously, Scott&White Healthcare); Temple TX

2011-2013 Supervisory Health Sciences Research Specialist
Neuroimaging and Genetics Core Leader
Central Texas Veterans Healthcare System
VISN 17 Center of Excellence for Research on Returning War Veterans; Waco TX

2009-2011 Director of TBI Research
University of Illinois Medical Center; Chicago IL

2007-2011 Fellow
Honors College; University of Illinois at Chicago; Chicago IL

2004-2011 Director of Magnetic Resonance Research
Department of Neurology and Rehabilitation, University of Illinois at Chicago; Chicago IL

2002-2004 Postdoctoral Research Associate
Center for Magnetic Resonance Research, University of Illinois at Chicago; Chicago IL

2001-2002 Associate Investigator
Jesse Brown Veterans Affairs Medical Center; Chicago IL

II. Research Information

A. Research Support

i. Active

Project Title: Building Resilience in Caregivers of Trauma Survivors
Funding Agency: U.S. Department of Defense
Role: PI
Effort: 15%
Project Period: 2019-2022* (original funded period 2017-2020; project will transfer with full funds)
Total Cost: \$1,887,757 total costs (\$1,698,053 direct costs)
Contract/Grant: W81XWH-17-0690

Project Title: Assessment of Diverse Biological Indicators in Gulf War Illness: Are They Replicable? Are They Related?
Funding Agency: U.S. Department of Defense
Role: Co-Investigator
Effort: 10%
Project Period: 2011-2016 (no cost-extension to 2021)
Total Cost: \$741,013 total costs (\$598,627 direct costs)
Contract/Grant: W81XWH-11-0812

Project Title: Brain-Immune Interactions as the Basis of Gulf War Illness: Gulf War Illness Consortium
Funding Agency: U.S. Department of Defense
Role: Current, Site PI; Role at BCM: Co-I (grant PI is transferring to BCM)
Effort: 25%
Project Period: 2013-2017 (no cost-extension to 2021)
Total Cost: Total project funding: \$5,194,048; BCM funding: \$380,315
Contract/Grant: Primary award to Boston University Medical Campus

Project Title: Assessment of MRI-Based Markers of Dopaminergic Integrity as a Biological Indicator of Gulf War Illness
Funding Agency: U.S. Department of Defense, TATRC
Role: PI
Effort: 28%
Project Period: 2019-2020 (Project timeline will restart; project period revised from funded)
Total Cost: \$425,471 (\$296,364 direct costs)
Contract/Grant: W81XWH-14-1-0622

Project Title: The Family Longitudinal Outcomes After Trauma Project: Intervention Pilot (FLOAT-IV)
Funding Agency: Collaborative Faculty Research Investment Program
Role: PI
Project Period: 2015-2016
Total Cost: \$75,000

Contract/Grant: NA

ii. Pending

Project Title: Clinically Important Brain Pathology in Gulf War Illness: Characterizing Its Features, Associations, and Application for Diagnostic Imaging
Funding Agency: U.S. Department of Defense, CDMRP
Role: PI
Status: Pending Invitation
Project Period: 2018-2021
Total Proposed Cost: \$1,100,000

Project Title: Defining and Characterizing GWI Pathobiology using Longitudinal Brain Imaging Biomarkers of White Matter Integrity and Hemodynamic Response
Funding Agency: U.S. Department of Defense, CDMRP
Role: Co-I, Site PI
Status: Pending Invitation
Project Period: 2018-2021
Total Proposed Cost: \$950,000

iii. Completed

Project Title: Medical Imaging Software Framework for Rapid Development and Clinical Interoperability
Funding Agency: U.S. Department of Defense, Telemedicine and Advanced Technology Research Center (TATRC)
Role: Site PI (Effort: 2PM)
Project Period: 9/15/11-8/14/16 (no cost extension)
Total Cost: \$220,000
Contract/Grant: W81XWH-11-2-0191

Project Title: Chicago Consortium for the Women's Interagency HIV Study (WIHS)
Funding Agency: Hektoen Institute
Role: Co-Investigator
Project Period: 2009-2013
Contract/Grant: NA

Project Title: Traumatic Brain Injury Diffusion Magnetic Resonance Imaging Research Roadmap Development Project
Funding Agency: U.S. Department of Defense
Role: Site PI
Project Period: 2009-2012
Total Cost: \$1,245,893
Contract/Grant: W81XWH-09-2-0102

Project Title: High Resolution Diffusion Tensor Imaging in Parkinson's Disease and Parkinson Plus Syndromes
Funding Agency: Michael J. Fox Foundation
Role: Co-Investigator

Project Period: 2009-2011
 Total Cost: \$383,771
 Contract/Grant: NA

Project Title: High Resolution Diffusion Tensor Imaging of Cortical-Subcortical White Matter Tracts in TBI
 Funding Agency: U.S. Department of Defense
 Role: PI
 Project Period: 2008-2011
 Total Cost: \$444,640
 Contract/Grant: W81XWH-08-1-0732

Project Title: Scaling and sequencing motor output in humans: an fMRI and DTI study
 Funding Agency: National Institute of Neurologic Disorders and Stroke
 Role: Co-Investigator
 Project Period: 2009-2011
 Total Cost: \$1,571,854
 Contract/Grant: 2 R01 NS052318-05A109

Project Title: Neural Circuitry Mechanisms in Pediatric Bipolar Disorder and Attention Deficit Hyperactivity
 Funding Agency: National Institute on Mental Health
 Role: Co-I
 Project Period: 2009-2011
 Total Cost: \$822,190
 Contract/Grant: 1 RC1 MH088462-0110

Project Title: Comparative Effectiveness of Brain Imaging and Blood Biomarkers in Alzheimer's Disease
 Funding Agency: National Institute on Aging
 Role: Co-PI
 Project Period: 2009-2011
 Total Cost: \$819,180
 Contract/Grant: 1 RC1 AG036208-0110

Project Title: Anatomical correlates of executive function decline in normal aging
 Funding Agency: National Institute on Aging
 Role: PI
 Project Period: 2007-2009
 Total Cost: \$429,000
 Contract/Grant: R21 AG028662

Project Title: High Resolution Diffusion Tensor Imaging of White Matter Integrity in Mild TBI
 Funding Agency: CINN Foundation
 Role: PI
 Project Period: 2007-2009
 Total Cost: \$50,000
 Contract/Grant: NA

Project Title: The role of feedback to facilitate category learning
Funding Agency: National Institute on Aging
Role: PI
Project Period: 2005-2007
Total Cost: \$78,000
Contract/Grant: R03 MH075791-01

Project Title: Research Associate Investigator Award
Funding Agency: Department of Veterans Affairs
Role: PI
Project Period: 2001-2002
Total Cost: \$70,000
Contract/Grant: NA

B. National Scientific Participation:

1. Journal editorial boards, journal review

a. National

Extramural Service: Reports to Congress

Content Matter Expert (Neuroimaging, TBI) for the US Army Medical Research and Material Command, Telemedicine and Advanced Technology Research Center, and Defense Centers of Excellence in Response to Congressional Request for “Comparative Effectiveness of Neuroimaging Modalities for the Detection of Traumatic Brain Injury”

Extramural Service: Ad Hoc Reviewer (last 5 years)

American Journal of Psychiatry

Annals of Neurology

Biological Psychiatry

Brain Imaging and Behavior

Brain Structure and Function

Cerebral Cortex

Cognitive and Behavioral Neurology

Cortex

Human Brain Mapping

International Journal of Computer Assisted Radiology and Surgery

Journal of Experimental Psychology: Learning, Memory, & Cognition

Journal of Magnetic Resonance Imaging

Journal of Neuropsychiatry and Clinical Neurosciences

Journal of Neurotrauma

Journal of the American Academy of Child and Adolescent Psychiatry

Journal of the International Neuropsychological Society

Nature

Neurobiology of Aging

Neuroimage

Neuroimage: Clinical

Neurology

Neuroradiology
Neuroscience and Biobehavioral Reviews
Neurosurgery
The Journal of Neuroscience
The Physician and Sports Medicine

b. International

Extramural Service: Ad Hoc Reviewer

Aging, Neuropsychology, and Cognition
BMC Medical Imaging
BMC Medicine
Brain
Brain Research Bulletin
Experimental Brain Research
Journal of Aging Research
Journal of the International Neuropsychological Society
Neurocase
Neurocomputing
Neuropsychologia
Neuroscience Letters
Science: Translational Medicine

2. Review panels

a. National

Ad Hoc Reviewer, NIH Center for Scientific Review, Neurological, Aging, and Musculoskeletal Epidemiology (NAME) Study Section, 2008
Ad Hoc Reviewer, Department of Defense Traumatic Brain Injury Research Program, 2008
Reviewer, Department of Defense Intramural War Supplemental Program, 2008
Reviewer, Department of Defense Medically Directed Research Program, Investigator Initiated Awards Program, November-December 2008
Reviewer, Department of Defense Medically Directed Research Program, New-Investigator, 2008
Reviewer, Department of Defense Deployment Related Medical Research Program, 2008
Ad Hoc Reviewer, American Institute of Biological Sciences Scientific for the Department of the Army Broad Agency Announcement, 2009
Ad Hoc Reviewer, Defense Related Medical Development Program, 2010 (two panels)
Ad Hoc Reviewer, American Institute of Biological Sciences Scientific for the Department of the Army Broad Agency Announcement, 2010
Ad Hoc Reviewer, National Aeronautics and Space Administration, 2011
Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2011
Ad Hoc Reviewer, American Institute of Biological Sciences Scientific for the Department of the Army Broad Agency Announcement, 2011
Ad Hoc Reviewer, Center for Neuroscience and Regenerative Medicine, Uniformed Services University of the Health Sciences, 2012
Reviewer, Congressionally Directed Medical Research Program, Section on Traumatic Brain Injury and Psychological Health, 2012
Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2012 (2 cycles)
Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2013 (2 cycles)
Ad Hoc Reviewer, Department of Veterans Affairs RRD, 2013 (two cycles)

Ad Hoc Reviewer, Congressionally Directed Medical Research Program, Psychological Health and Traumatic Brain Injury, 2013

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development Career Development Panel, 2013

Ad Hoc Reviewer, TATRC, Militarily Relevant Peer Reviewed Convergence Science Research Award Program, 2013

Ad Hoc Reviewer, TATRC, Militarily Relevant Peer Reviewed Alzheimer's Disease Research Program, 2013

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2013

Ad Hoc Reviewer, TATRC, Militarily Relevant Peer Reviewed Convergence Science Research Award Program and Militarily Relevant Peer Reviewed Alzheimer's Disease Research Program, 2013

Ad Hoc Reviewer, Department of Veterans Affairs RRD, 2014 (2 cycles)

Ad Hoc Reviewer, Department of Veterans Affairs RRDS R - SPiRE, 2014

Ad Hoc Reviewer (Member Conflict SEP), National Institutes of Health; ZRG BDCN-K (02) Neural Trauma, Stroke, and Epilepsy Review, 2014

Ad Hoc Reviewer, Department of Defense, Joint Warfighter Medical Research Program, Combat Casualty Care, 2014

Ad Hoc Reviewer, Department of Veterans Affairs RRD, 2014 (2 panels)

Ad Hoc Reviewer, Center for Neuroscience and Regenerative Medicine, Uniformed Services University of the Health Sciences, 2014

Chair (Member Conflict SEP), National Institutes of Health; ZRG BDCN-K (02) Neural Trauma, Stroke, and Epilepsy Review, 2014

Ad Hoc Reviewer, Congressionally Directed Medical Research Program, 2014

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2015

Chair, Congressionally Directed Medical Research Program, 2015

Ad Hoc Reviewer, Chronic Traumatic Encephalopathy Special Emphasis Panel, 2015

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development Small Projects in Rehabilitation Research (SPiRE), 2015

Ad Hoc Reviewer, Department of Veterans Affairs RRD, 2015

Ad Hoc Reviewer (Member Conflict), Neurologic Disorders, 2015

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2016

Ad Hoc Reviewer (Member Conflict), Neurologic Disorders, 2016

Ad Hoc Reviewer, National Institutes of Health, Special Emphasis Panel: Brain Injury and Recovery, 2016

Ad Hoc Reviewer, National Institutes of Health, Special Emphasis Panel (R21, R03): Neurological, Aging, and Musculoskeletal (NAME), 2016

Ad Hoc Reviewer, Kansas University Medical Center (KUMC) Kansas IDeA Network of Biomedical Research Excellence (K-INBRE) Bridging Grant Program, 2016 (December)

Chair, Congressionally Directed Medical Research Program, 2016 (December)

Ad Hoc Reviewer, Center for Neuroscience and Regenerative Medicine, Uniformed Services University of the Health Sciences, 2017

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2017

Ad Hoc Reviewer, National Institutes of Health, Member Conflict, Neural Trauma and Stroke Study Section, ZRG1 BDCN-K (02), Brain Disorders and Clinical Neuroscience (BDCN), 2017

Ad Hoc Reviewer, Uniformed Services University of the Health Sciences, MRMC, 2017

Ad Hoc Reviewer, National Institutes of Health, Adult Psychopathology and Disorders of Aging Study Section (APDA); Biobehavioral and Behavioral Processes IRG (BBBP), 2017

Ad Hoc Reviewer, Defense and Veterans Brain Injury Research Center, 2018

Ad Hoc Reviewer, Department of Veterans Affairs Rehabilitation Research and Development, 2017

Chair, National Institutes of Health, Member Conflict, Neural Trauma and Stroke Study Section, 2018

Ad Hoc Reviewer, Uniformed Services University of the Health Sciences, MRMC, 2018

b. International

- Ad Hoc Reviewer, The Netherlands Research Council, 2006-2008
- Ad Hoc Reviewer, Neurological Foundation of New Zealand, 2006-2009
- Reviewer, Ontario Neurotrauma Foundation, 2009
- Ad Hoc Reviewer, PSI Foundation, 2013-2014
- Reviewer, Ministry of Health (Italy), General Direction for Scientific Research and Health Innovation, 2014
- Reviewer, Agence Nationale De La Recherche, 2015
- Reviewer, Health Research Board (Ireland), Health Research Board Research Training Fellowship for Healthcare Professionals, 2016

3. Research Collaboratives

a. Regional

- State of Illinois Working Group Member
 - Telemedicine; 2009-2010
 - Pediatric Brain Injury, 2007-2011
- Illinois GI Bill Re-integration Chair and Course Coordinator; 2010-2011
- Mental Health Care and Coverage for Veterans (Working Group Member); 2014-2015

b. National

- National Advisory Board, Sara Jane Brain Foundation; 2008-2012
- National Lead, Telemedicine, Sara Jane Brain Foundation 2009-2012

c. International

- Scientific Advisory Board, International Pediatric Brain Injury Association; 2009-2011; Ontario Canada
- Advisory Board, Pediatric Acquired Brain Injury Community Outreach Program; 2007-2011; Ontario Canada

4. Professional societies

- American Psychological Association; 2011-2015
- Society for Neuroscience; 2002-present
- International Society for Magnetic Resonance in Medicine; 2003-2010
- Sigma Xi (1996-2007); Fellow; 2007-present
- National Neurotrauma Society; 2009-present
- American Congress on Rehabilitation Medicine; 2011-present

5. Invited lectures, presentations, research seminars: National, International

a. Invited lectures, presentations, research seminars

- Role of the Caregiver in a Level I Trauma Service*; Temple TX May 2016
- Imaging Neurodegeneration*; Loyola Medical Center; Chicago IL November 2015
- Mysteries and Truths about the Chronic Effects of TBI*; University of Texas Southwestern, Dallas TX October 2015
- Gaps in Mental Health Care in the Veteran Community*; Meadows Foundation; Dallas TX, September 2015
- Repeated Head Trauma as a Risk Factor for Dementia*; Texas A&M University Temple TX, Neuroscience GR March 2015
- Challenges and Opportunities for High Field Imaging of Neurodegeneration*; Siemens Corporate Research; October 2014
- Topics in Militarily Relevant Neurodegenerative Disease*; ACR; Reston VA September 2013

Military Concussion: Definitions, Concepts, Concerns; Advocate Christ Medical Center Medical Grand Rounds; Chicago IL September 2012

Chronic Effects of Multiple Concussive Events; Auburn University Invited Lectureship, Auburn AL March 2012

Is mild TBI really "mild" in severity in Blast+ TBI? Center for Brain Health, Dallas TX, December 2011

Diffusion Tensor Imaging Biomarkers of TBI; Federal Interagency Conference on Traumatic Brain Injury, Washington DC, 2011

Blast+ TBI and Non-Blast TBI: Same animal or different species? 8th Annual World Congress of IBMISPS on Brain, Spinal Cord Mapping and Image Guided Therapy, Mission Bay Conference Center, San Francisco CA, June 2011

Seeing the Invisible: The past, present, and future of imaging in mild TBI; Keynote Lecture; 18th Annual Conference on Neurobehavioural Rehabilitation in Acquired Brain Injury: Mild Traumatic Brain Injury current Directions in Diagnosis and Treatment; Hamilton, Ontario; April 2011

The search for a biomarker of mild TBI: Can we see and measure the invisible? Texas A&M College of Medicine, Scott & White Hospital, Department of Psychiatry, Grand Rounds, Temple TX; March 2011

Hidden in Plain Sight: Chronic Effects of TBI on Cerebral Integrity and Neurobehavioral Function. Department of Physical Medicine and Rehabilitation, Rush University, Chicago IL; March 2011

The new frontier of mild TBI: the search for a central mechanism of impairment via neuroimaging. University of California, Irvine, Irvine CA; March 2011

Mild TBI: Definitions, concerns and considerations in chronic patients. Long Beach Veterans Affairs Medical Center, Long Beach CA; March 2011

Mild Traumatic Brain Injury: Chronic effects and intervention options. Anixter Center, Chicago IL; February 2011

A New "Look" into Mild Traumatic Brain Injury using High Resolution Diffusion Tensor Imaging. Portland VA Medical Center, Portland OR; February 2011

High resolution diffusion tensor imaging of cortical-subcortical white matter tracts in TBI; Department of Defense Traumatic Brain Injury In Progress Review; January 2011

The role of Cognitive Rehabilitation in mild and complex Mild TBI; University of Illinois Medical Center, Department of Rehabilitation Services; January 2011

The Role of Diffusion Tensor Imaging in Diagnosis of Mild TBI: Diagnostic Tool or Just Another Pretty Picture? Neuroscience of Brain Injury: Research Informing Medical and Legal Practice, California Brain Injury Association, Napa CA November 2010

Hidden in Plain Sight: Injury and Damage Characterization following Concussion. Claremont-Mudd-Scripps Neuroscience Lecture Series, Claremont CA; November 2010

High Resolution Diffusion Imaging of Mild TBI; University of Illinois Behavioral Neurosciences Seminar Series, Chicago IL; October 2010

Neuroimaging and Neurophysiology of Mild Traumatic Brain Injury; Grand Rounds, North Chicago Veterans Affairs Medical Center, North Chicago, IL; July 2010

Magnetic Resonance Diffusion Tensor Imaging for the Assessment of Diffuse Axonal Injury in TBI. 7th Annual World Congress of IBMISPS on Brain, Spinal Cord Mapping and Image Guided Therapy, Uniformed Services University of Health Sciences, Bethesda MD; May 2010

Sensitivity of Neuropsychological Assessment in Mild TBI; Department of Psychology, University of Oregon; May 2010

Imaging Mild TBI: What's the point? Teaching Research Institute of Oregon; Eugene OR; May 2010

Imaging in TBI: The Search for a Central Mechanism of Injury; Presidential Symposium on Traumatic Brain Injury, Chicago Chapter, Society for Neuroscience Annual Meeting; March 2010

Central Mechanisms of Injury in Mild Traumatic Brain Injury; Medical Grand Rounds, Rosalind Franklin University; February 2010

Neuroimaging Mild Traumatic Brain Injury; Thorek Hospital Grand Rounds; Chicago, IL; January 2010

Neurophysiology of Traumatic Brain Injury; University of Illinois Department of Ophthalmology and Visual Sciences Visual Neuroscience Grand Rounds; November 2009

Telehealth: Using Technology to Deliver Medical and Community Based Services; North American Brain Injury Association, Austin, TX; October 2009

Magnetic Resonance Spectroscopy: Basic Physics, Measures, and Indications in Neuro-Ophthalmology. Neuro-Ophthalmology Symposium: Management of Difficult and Complicated Cases in Neuro-Ophthalmology. University of Illinois Eye and Ear Infirmary; September 2009

Thalamic Projection Fibers and Cognitive Impairment Following Traumatic Brain Injury; Congressionally Directed Medical Research Conference, Kansas City, MO; August 2009

Functional Relevance of Age-Related Changes in Cerebral White Matter; University of Illinois Behavioral Neurosciences Seminar, Chicago, IL February 2008

Advanced Clinical Magnetic Resonance Imaging of the Human Brain: fMRI and DTI; Department of Otolaryngology Grand Rounds, University of Illinois College of Medicine; Chicago IL; December 2007

White Matter burden on Executive Function in Healthy Aging: A multimodal MRI Investigation; Volen National Center for Complex Systems Brain-Imaging and Memory Research Group Brandeis University; Waltham, MA November 2007

Contributions of Traumatic Brain Injury to Defects in White Matter Microstructure; Volen National Center for Complex Systems Brain-Imaging and Memory Research Group; Brandeis University; Waltham, MA; November 2007

Use of MRI in Political Science Research; American Political Science Association, Political Communications Section, Machine Politics/Politics of the Machine: New Technology in Political Communication Research and Teaching; August 2007

High Resolution Diffusion Imaging in chronic mild head injury. Chicago Institute of Neurosurgery and Neuroresearch, Chicago, IL; June 2007

The effects of decreased white matter integrity on networks which underlie working memory. Center for BrainHealth, University of Texas at Dallas, Dallas, TX; June 2007

Functional outcomes of gray and white matter declines in super-healthy aging. Department of Neurology, University of Chicago, Chicago, IL; March 2007

Does white matter matter in Normal Aging? Department of Psychology, Washington University, St. Louis, MO November 2006

Anatomical Correlates of Executive Function Decline in Normal Aging; Department of Human Nutrition and Movement Sciences, University of Illinois, Chicago IL; October, 2006

Principles and Applications for Clinical fMRI; Department of Neurology, Children's Memorial Hospital, Chicago IL October 2006

White and gray matter contributions to executive functions in normal aging. Department of Psychology, Behavioral Neuroscience, University of Illinois, Chicago IL September, 2006

Executive function declines in Normal Aging. Department of Psychiatry Grand Rounds, University of Illinois, Chicago IL September, 2006

Imaging Language Development; Midwest Neuropsychological Group Annual Meeting May 2006

Neuroimaging of Prototype-Distortion Learning. Dalhousie University, Nova Scotia April 2006

fMRI investigation of category learning. University of Illinois Behavioral Neurosciences Seminar, Chicago, IL; March 2006

Functional imaging of human cognitive processes. Department of Anatomy and Cell Biology, Plasticity and Regeneration; April 2005

Neural correlates of human category learning Department of Psychology, Ettengberg Lecture, Chicago, IL; April 2005

fMRI: A window to the workings of the brain? Department of Neurology, Grand Rounds, Chicago, IL; February 2005

Dynamic changes in the brain during learning. Decoding the Human Brain, Chicago, IL; September 2004

The effects of learning on brain activity via functional MR imaging. University of Illinois Behavioral Neurosciences Seminar, Chicago, IL; February 2004

Learning as a model of plasticity in the healthy brain and in stroke. Department of Neurology, Grand Rounds, Chicago, IL; May 2003

The progression of dynamic changes in activation patterns during learning. Chicagoland Symposium: Functional MRI of the brain in Health and Disease, Chicago, IL; April 2003

Resource limitations at encoding as an account of adult age differences in memory for discourse. Brigham & Women's Behavioral Neuroscience Seminar Series, Boston, MA; April 2001

b. Invited Workshops/Consensus Conference Presentations

Neuroimaging Neurodegenerative Disease; Alzheimer's Association and Department of Defense Workshop on Progression to Neurodegeneration, Arlington VA, May 2012

Advanced Imaging and Neurotrauma; Review and Analysis Workshop: Methods and Metrics for the Biological Assessment of Brain Dysfunction (Sponsored by TATRC, DVBIC, SURVIAC); Washington, DC; May 2011

In-vivo Imaging Based Assessments of Neuropathology in Blast-type TBI; Blast-Related Brain Injury: Imaging for Clinical and Research Applications, Mallinckrodt Institute of Radiology, St Louis, MO; October, 2008

From Chronic to Acute and Civilian to Military – Use of Imaging Biomarkers of Mild Injury to Identify Behavioral Assessment Measures. mTBI Diagnostics Workshop, St. Pete FL August 2010

C. Publications

1. Full Papers

a. Published in Peer Review Journals

Rubin LH, Wu M, Sundermann EE, Meyer VJ, Smith R, Weber KM, Cohen MH, Little DM, Maki PM. Elevated stress is associated with prefrontal cortex dysfunction during a verbal memory task in women with HIV. *Journal of NeuroVirology*. 2016 Apr 19. (PMID: 27094924)

Little DM, Cook AJ, Morissette SB, Klocek JW. Considerations for return to work following traumatic brain injury. *Handbook of Clinical Neurology*. 2015;131:465-79. (PMID: 26563804)

Smith-Ray R, Hughes S, Prohaska T, Little DM, Jurivich D, Hedeker D. Impact of cognitive training on gait and balance in older adults. *Journal of Gerontology: Psychological Sciences*. 2015;70(3):357-66. (PMID: 24192586)

Rubin LH, Meyer VJ, J Conant R, Sundermann EE, Wu M, Weber KM, Cohen MH, Little DM, Maki PM. Prefrontal cortical volume loss is associated with stress-related deficits in verbal learning and memory in HIV-infected women. *Neurobiology of Disease*. 2015; S0969-9961(15)30056-5. (PMID: 26408051)

Bruce ED, Konda S, Dean DD, Wang EW, Huang JH, Little DM. Neuroimaging and traumatic brain injury: state of the field and voids in translational knowledge. *Molecular and Cellular Neuroscience*. 2015 66: 103-113. (PMID: 25827094)

Sundermann EE, Bishop JR, Rubin LH, Little DM, Meyer VJ, Martin E, Weber K, Cohen M, Maki PM. Genetic predictor of working memory and prefrontal function in women with HIV. *Journal of NeuroVirology*. 2015 21(1): 81-91. (PMID: 25515329)

Little DM, Geary EK, Moynihan M, Alexander A, Pennington ML, Glang P, Schulze ET, Dretsch M, Pacifico A, Davis ML, Stevens A, Huang JH. Imaging Chronic Traumatic Brain Injury as a Risk Factor for Neurodegeneration. *Alzheimers Dementia*. 2014; 10(3 Suppl):S188-95. (PMID: 24924670)

Meyer V, Little DM, Fitzgerald DA, Sunderman EE, Rubin LH, Martin EM, Weber KM, Cohen MH, Maki PM. Crack cocaine use impairs anterior cingulate and prefrontal cortex function in women with HIV infection. *Journal of NeuroVirology*, 2014 20(4): 352-361. (PMID: 24760360)

Lamar M, Zhou XJ, Charlton R, Dean D, Little DM, Deoni SC. In vivo quantification of white matter microstructure for use in aging: a focus on two emerging techniques. *American Journal of Geriatric Psychiatry*, 2014; 22(2): 111-121. (PMID: 24080382)

Weiner MW, Friedl KE, Pacifico A, Chapman J, Jaffee MS, Little DM, Manley GT, McKee A, Petersen RC, Pitman RK, Yaffe K, Zetterberg H, Obana R, Bain LJ, Carrillo M. Military risk factors for Alzheimer's Disease. *Alzheimer's and Dementia*. 2013; 9(4):445-51. (PMID: 23809365)

- Little DM, Foxely S, Lazarov O. A preliminary study Targeting neuronal pathways activated following environmental enrichment by resting state functional magnetic resonance imaging. *Journal of Alzheimer's Disease*. 2012; 32 (1): 101-7. (PMID: 22766734)
- Planetta M, Schulze ET, Little DM, Vaillancourt DE. Thalamic projection fiber integrity in de novo Parkinson's disease. *American Journal of Neuroradiology*. 2013; 34(1); 74-79. (PMID: 22766668)
- Vaillancourt DE, Spraker MB, Prodoehl J, Zhou XJ, Little DM. Effects of aging on the ventral and dorsal substantia nigra using high resolution diffusion tensor imaging. *Neurobiology of Aging*. 2012; 33(1): 35-42. (PMID: 2908724)
- Schulze ET, Geary EK, Susmaras TM, Paliga JT, Maki PM, Little DM. Anatomical correlates of age-related working memory declines. *Journal of Aging Research*. 2011; 606871. (PMID: 22175019)
- Hartley A, Little DM, Speer N, Jonides J. Input, Retention, and Output Factors Affecting Adult Age Differences in Visuospatial Short-Term Memory. *Journal of Gerontology: Psychological Sciences*. 2011; 66(4); 435-443. (PMID: 21498844)
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- Little DM, McGrath LM, Prentice KJ, Wingfield A. Semantic encoding of spoken sentences: Adult aging and the preservation of conceptual short term memory. *Applied Psycholinguistics* 2006; 27: 487-511.
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- Laatsch L, Little DM, Thulborn KR. Changes in fMRI following cognitive rehabilitation therapy in severe traumatic brain injury: A case study. *Rehabilitation Psychology* 2004; 49: 262-267.
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2. Abstracts (last 3 years, from among more than 70 published abstracts)

- Coombs LP, Odry B, Little DM. Medical imaging software framework for traumatic brain injury enabling rapid development and clinical interoperability. 4th Annual Traumatic Brain Injury Conference; Washington DC; April 2014.
- Little DM, Glang P, Pennington M, Gillett J. Cerebellar White Matter Integrity and Depression in Chronic Brain Injury. International Brain Injury Association, World Congress on Brain Injury, 2014.
- Meyer VJ, Little DM, Fitzgerald DA, Sundermann EE, Rubin LH, Weber K, Cohen M. Crack cocaine use is associated with less prefrontal cortex activation in women with HIV. Program No. 157.03.2013. Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
- Rubin LH, Jamadar R, Little DM, Sunderman EE, Meyer VJ, Weber KM, Cohen MH, Maki PM. (2013) Hippocampal dysfunction may explain the negative impact of stress on verbal memory in HIV-infected women. What a Difference an X Makes: 4th Annual State of Women's Health Research Conference (SWHR, Office of Research on Women's Health, National Institutes of Health)
- Grauzas VM, Sundermann E, Little DM, Weber K, Cohen M, Maki PM. (10/14/2012). *Alterations in hippocampal function in HIV-infected women*. Society for Neuroscience Annual Meeting, New Orleans LA.
- Grauzas V, Little DM, Rubin L, Jamadar R, Soong L, Sundermann E, Weber K, Cohen M, Maki PM. Decreased white matter integrity in women with HIV is associated with crack cocaine use and impaired verbal memory. *Human Brain Mapping*, 2013.
- Planetta PJ, Schulze ET, Geary EK, Goldman JG, Corcos DM, Little DM, Vaillancourt DE. Thalamic projection fiber integrity in de novo Parkinson's disease. Movement Disorders Society. Dublin Ireland, 2012.
- Griffin JL, Little DM. Integrity of the hypothalamus in closed head traumatic brain injury. 14th Annual Rehabilitation Psychology Conference, Ft. Worth, TX, 2012.

4. Books

a. Book Chapters

- Little DM, Cook AJ, Morissette SB, Klocek JW. Considerations for return to work following traumatic brain injury. Chapter 26, Lotti M, Bleeker ML (eds): Occupational Neurology (Vol. 131) in Aminoff MJ, Boller F Swaab DF (series eds) Handbook of Clinical Neurology Series. Elsevier, 2015, pp. 465-480.
- Hotz G, Little DM. Psychological and behavioral complications of trauma. In Cohn SM, Dolich MO: Complications in Surgery and Trauma, Second Edition. CRC Press, 2014, pp. 427-438.
- Little DM, Arciniegas DB, Hart J. Advanced neuroimaging. In Arciniegas DB, Anderson CA, Filley CM (eds): Behavioral Neurology & Neuropsychiatry, Cambridge University Press, 2013, pp. 430-441.
- Little DM, Schulze E*, Shah N*, McGowan S*. Imaging effects of hypertension on the brain: a focus on new imaging modalities and options. Aiyagari V, Gorelick PB (eds): Hypertension and Stroke: Pathophysiology and Management. Springer, 2011, pp. 237-258.
- Wingfield A, Prentice K, Koh CK, Little DM. Neural change, cognitive reserve and behavioral compensation in rapid encoding and memory for spoken language in adult aging. In Connor LT, Obler LK (eds): Neurobehavior of Language and Cognition: Studies of Normal Aging and Brain Damage. Springer, 2002, pp. 3-20.

5. Other works communicating research results to general public

Dissemination of information on brain injury and imaging on PBS Nova Science Now (2008)

Transcript: http://www.pbs.org/wgbh/nova/transcripts/0306_sciencen.html

Interview: <http://www.pbs.org/wgbh/nova/body/brain-trauma.html>

Video Series on Pediatric Brain Injury for Educators (2011)

“In Harm’s Way: Traumatic Brain Injury in Young Children” Brain Injury Awareness for Head Start Providers; Produced by the New Mexico Aging and Long-Term Services Department (2009)

Video Series on Pediatric Brain Injury for Educators (2011)

“In Harm’s Way: Traumatic Brain Injury in Young Children” Brain Injury Awareness for Head Start Providers; Produced by the New Mexico Aging and Long-Term Services Department (2009)

Video Series on Traumatic Brain Injury in Native Americans

“The Critical Link: CHR’s & Brain Awareness for Community Health Representatives” Brain Injury Awareness for Community Health Providers; Produced by the New Mexico Aging and Long-Term Services Department (2009)

Interviews and appearance on WGBH PBS www.teachersdomain.com (2009)

<http://www.teachersdomain.org/resource/oer09.sci.life.stru.braintrauma/>

Interviews and appearance on Brainline (2010)

<http://www.brainline.org/content/2011/02/dr-deborah-little.html>

Interviews on pediatric brain injury and magnetic resonance imaging

Dissemination of information on brain injury and imaging on Brainline (2011)

<http://www.brainline.org/content/2011/04/neuroimages.html>

III. Teaching Information

A. Didactic course work

1. Courses taught at current institution

None

2. Courses taught at other institutions

Neuroanatomy and Neuropathology. Team taught a graduate course in clinical psychology at Baylor University, 2015-2016

Neurodegenerative Disease. Team taught a graduate course on cellular and molecular bases of neurodegenerative disease in the Graduate College at UIC, 2006-2010

Neuroscience II. Team taught a graduate course on Neuroscience in the Psychology department within the College of Arts and Sciences at UIC, 2007-2010

Gross Human Neuroanatomy Laboratory. Team taught one section of the gross anatomy laboratory for first year Medical students in the College of Medicine at the University of Illinois at Chicago; 2005-2008

Functional MR Imaging. Team taught a course with Drs. Keith Thulborn, X. Joe Zhou, and David Vaillancourt on MR physics, paradigm design, and statistical analysis of fMRI data to Biophysics graduate students at the University of Illinois at Chicago, 2006

Tools for fMRI. Team taught a course with Dr. Keith Thulborn in the Department of Physiology and Biophysics, University of Illinois at Chicago, 2003

B. Non-didactic teaching

1. Resident training

Neuroimaging, Texas A&M and Baylor Scott and White; Psychiatry and behavioral Sciences; 4 hours/year.

Human Neuroanatomy; University of Illinois Medical Center; Neurology and Rehabilitation Residency Program; 6 hours/year

Human Neuroanatomy; University of Illinois Medical Center; Psychiatry Residency Program; 2 hours/year

Interpretation of MRI imaging; University of Illinois Medical Center; Neurology and Rehabilitation Residency Program; 4 hours/year

Advanced topics in high field imaging; University of Illinois Medical Center; Neurology and Rehabilitation Residency Program; 2 hours/year

2. Clinical Fellow training

Human Neuroanatomy; University of Illinois Medical Center; Neuropsychology; 4 hours/year

Interpretation of MRI imaging; University of Illinois Medical Center; Neuropsychology; 4 hours/year

3. Research Fellow training

Saju Abraham, MD, 2009-2010

Elizabeth K. Geary, PhD, ABPP-CN, 2009-2011

Melissa Jones, MD, 2016-

4. Graduate Student training

Lisa Sprute, Neuroscience Program, University of Illinois at Chicago. Qualifying examination committee (Spring 2007)

Ben Smith, Anatomy & Cell Biology, University of Illinois at Chicago. Qualifying examination chair (Summer, 2007)

Matthew Spraker, Bioengineering, University of Illinois at Chicago. Qualifying examination committee (Spring 2008), Dissertation committee (Spring 2009)

Matthew Burns, Anatomy & Cell Biology, University of Illinois at Chicago. Qualifying examination committee (Fall 2008)

Renee Smith-Ray, School of Public Health, University of Illinois at Chicago. Qualifying examination committee (Spring 2009), Dissertation committee (Spring 2011)

Teresa Susmaras, Psychology, Suffolk University. Qualifying examination committee (2011)

Vanessa Grauzas, Neuroscience, College of Medicine, University of Illinois at Chicago. Dissertation committee (Spring 2012)

5. Undergraduate and Medical Student training

Sarah Orrin, MD, Medical Student Research Supervisor (Research elective in her 3rd year), 2005
Geeta Bansal, MD, Medical Student Research Supervisor (Summer research elective in her 3rd year), 2005
Jennifer Garcia, MD, Medical Student Research Supervisor (following her M1 Year), 2003
Silvia Shin BS, Research Assistant 2005-2006
Shannon Sisco PhD, Research Assistant 2005-2006
Corey J. Walker, Undergraduate Honors Research Supervisor, 2006-2008
Benjamin Caughlin, MD, Medical Student Research Supervisor (following his M1 Year), 2007
Catherine Jiam, M.D, Craig Fellowship Supervisor and Sponsor (following her M1 Year), 2007
Nilay Shah, MD, Undergraduate Honors Research Supervisor, 2007-2009
Milan Udawatta, Independent Research Supervisor, 2007-2009 (Law School)
J. Thomas Paliga, Kravis Leadership Recipient, 2008-2010
Christopher Ochoa, MD, Craig Fellowship Supervisor and Sponsor, 2008-2009
Josh Joseph, MD Craig Fellowship Supervisor and Sponsor, 2008-2010
Bart Chwalisz, MD, Craig Fellowship Supervisor, 2008-2009
Ravi Kasi, MD, Medical Student Research Supervisor, 2008-2011
Khushbu Shah. Undergraduate Honors Research Supervisor, 2008-2011
Bhavna Balaney, MD Craig Fellowship Supervisor and Sponsor, 2008-2009
Tammy Tamayo, BS MD/PhD Student, 2008-2010
Sara Goel, DO, DO Student, Western University, Claremont CA, 2008-2009
Michael Moynihan, DO, 2008-2011
Aristides Alexander, MD, 2008-2011
Tyler Cohn, MD, Craig Fellowship Supervisor and Sponsor, 2009-2010
Shanele McGowan, MD, 2009-2010
Shama Patel, Undergraduate Honors Research Supervisor, 2009-2010
Sarung Kashyap, Undergraduate Honors Research Supervisor, 2009-2011
Allison Lindsay Crawford, Medical Student Research Supervisor, 2010-2011
Frances Samolowicz, Medical Student Research Supervisor, 2010-2011
Zoe Ravich, Research Supervisor, 2010-2011
Elizabeth Shay, Medical Student Research Supervisor, 2011
Sarah Hartman, Undergraduate Research Supervisor, 2011
Sneha Konda, Medical Student Research Supervisor, 2014-2016
Sadd Sadeddine, Medical Student Research Supervisor, 2014-2016

6. Estimates of kinds of non-didactic teaching expected at BCM

Supervision of Research Graduate Students, Medical Students, Residents, and Postdoctoral Fellows in the Beth K. and Stuart C. Yudofsky Division of Neuropsychiatry. I will provide trainees working in the Division's human subjects-oriented research programs will be provided with supervised research experience in structural and functional neuroimaging methods

and analytic approaches. Upon request, similar experiences will be provided to trainees in the Department and the College.

Postdoctoral Studies in Traumatic Stress Neuropsychiatry. A postdoctoral fellowship for human subjects research-oriented cognitive neuroscientists will be developed within the Traumatic Stress Neuropsychiatry Program within the Beth K. and Stuart C. Yudofsky Division of Neuropsychiatry.

C. Educational Lectures

1. National

GE Masters Series – Functional Magnetic Resonance Imaging
Professional development (CME) series for Radiologists
3 courses per year 2003-2005

Diffusion MRI for Traumatic Brain Injury Roadmap Development Project Workshop
Omni Hotel, Chicago, IL; 2-3 June 2010

Funded by: TATRC, Telemedicine and Advanced Technology Research Center, Department of the Army

D. Visiting professorships

Visiting Professor of Neurology and Rehabilitation, University of Illinois at Chicago (2011-present)

Visiting Professor of Psychiatry and Behavioral Sciences and Neurosurgery; Texas A&M University (2015-present)

IV. Medical & Service Information

A. Patient care responsibilities

Not Applicable

B. Clinical laboratory responsibilities

Not Applicable

C. National education or voluntary health organization participation

None

D. Administrative assignments

1. Departmental administration, committees

Department of Neurology Research Committee; 2005-2011

Department of Neurology Grand Rounds Curriculum Committee; 2008-2011

2. College, School or University administration, committees

Baylor College of Medicine Admissions Committee (AIS); 2018-

Baylor College of Medicine Admissions Interviewing Subcommittee (AIS); 2016-

VISN17 Center of Excellence Education and Training Committee; 2011-2013

VISN17 Center of Excellence Building 93 Activation Committee; Chair, 2012-2013

Colbeth Center Core Fundraising, Pediatric Bipolar Disorder; 2005

Department of Ophthalmology Eye Opener; 2006

University of Illinois Foundation Fundraising; 2006)

Judge, UIC Research Forum; 2007-2010

UIC Internal Grant Reviewer; 2005-2011

College of Medicine Medical Student Research Committee; 2007-2011

College of Medicine Committee on Research; 2007-2011

University of Illinois Research Committee; 2007-2011

Interviewer, College of Medicine; 2008-2011

University of Illinois Medical Center Organ Donation Committee (Outreach); 2009-2011
University of Illinois College of Medicine Student Research Award Judge; 2010-2011
University of Illinois Senate; 2010-2011
University of Illinois Senate Subcommittee on Faculty Affairs; 2010-2011
University of Illinois Senate Subcommittee on Research; 2010-2011
University of Illinois Vice Chancellor for Research Imaging Task Force; 2011
Research Subcommittee, Information Technology Governance Council; 2011