

CURRICULUM VITAE

DATE PREPARED: October 1, 2011

PART I: General Information

Name: BRADFORD CLARK DICKERSON

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Education:

05/1990 B.S. (Biomedical Engineering), Southern Methodist University
05/1999 M.D., U. OF ILLINOIS COL. OF MEDICINE
06/2005 M.M.SC. (Clinical Investigation), Harvard Medical School/Massachusetts Institute of Technology

Postdoctoral Training:

01/99-12/00 Intern in Medicine, Medicine, Brigham and Women's Hospital
07/00-06/02 Resident in Neurology, Neurology, Partners (MGH and BWH)
07/02-06/03 Chief Resident in Neurology, Neurology, Partners (MGH and BWH)
09/02-09/03 Research Fellow, Gerontology Research Unit & Martinos Imaging Center, Neuroimaging, Massachusetts General Hospital
07/03-06/05 Fellow in Cognitive and Behavioral Neurology, Cognitive and Behavioral Neurology, Brigham and Women's Hospital

Licensure and Certification:

2002 Diplomate of National Board of Medical Examiners
2003 Massachusetts Board of Registration
2005 Diplomate of American Board of Psychiatry and Neurology

Academic Appointments:

1999-2001 Clinical Fellow in Medicine, Harvard Medical School, Boston, MA
2000-2003 Clinical Fellow in Neurology, Harvard Medical School, Boston, MA
2003-2006 Instructor in Neurology, Harvard Medical School, Boston, MA
2006-2008 Assistant Professor of Neurology, Harvard Medical School, Boston, MA
2008- Associate Professor of Neurology, Harvard Medical School, Boston, MA

Hospital or Affiliated Institution Appointments:

06/99-06/00 Intern in Medicine, Brigham and Women's Hospital, Boston, MA
07/00-06/03 Resident in Neurology, Partners Neurology (Massachusetts General Hospital & Brigham & Women's Hospital), Boston, MA
07/02-06/03 Chief Resident in Neurology, Partners Neurology (Massachusetts General Hospital & Brigham & Women's Hospital), Boston, MA
07/03- Associate Neurologist, Brigham and Women's Hospital, Boston, MA
09/03- Assistant in Neurology, Massachusetts General Hospital, Boston, MA

Hospital and Health Care Organization Clinical Service Responsibilities:

2003- Attending Physician in Neurology, Brigham and Women's Hospital
2004- Attending Physician in Neurology, Massachusetts General Hospital

Major Administrative Responsibilities:

2005- Director of Clinical Applications, MGH Morphometry Analysis Center, Massachusetts General Hospital
2005- Co-Director, Neuroimaging Group, Gerontology Research Unit, Massachusetts General Hospital

2008- Director, Frontotemporal Dementia Unit, Massachusetts General Hospital
2010- Co-Director, Center for Neural Systems Investigation, Massachusetts General Hospital

Major Committee Assignments:

Affiliated Inst

1996-1999 James Scholar Program for Independent Study Advisory Committee, University of Illinois College of Medicine
2001-2007 BWH Department of Internal Medicine Resident Selection Committee, Brigham and Women's Hospital
2005-2007 Core data committee [Chairperson], Brigham and Women's Hospital (Memory Disorders Unit)
2006- Clinical Research Steering Subcommittee, Alzheimer's Disease Research Center, Massachusetts General Hospital
2007- Partners Brain Imaging Guidelines Committee, Partners Healthcare System
2009- Harvard FAS Interdisciplinary Mind/Brain/Behavior standing committee; Co-Director, Harvard MBB Chalk Talk Series

Regional

2004- Medical and Scientific Advisory Committee, Alzheimer's Association, Greater Massachusetts Chapter
2005- Organizing committee [Founding Chairperson], Charles River Association for Memory biannual meeting

National

2004 Grant review committee, Fidelity Research Foundation
2004 Grant review committee, Retirement Research Foundation
2005 Grant review committee, National Science Foundation
2006- Grant Review Committee, Alzheimer's Association (annual grant reviews)
2006 External grant review committee, Rush University, Chicago, IL
2008 NIH Neurological, Aging and Musculoskeletal Epidemiology study section, National Institutes of Health
2008 NIH Special Emphasis Panel, National Institutes of Health
2009 NIH Challenge Grant Review Panel #10 ZRG1 BDA-A (telephone study section)
2009-10 Topic Chair, Behavioral Neurology Section, American Academy of Neurology annual meeting
2010 NIH Neurological, Aging and Musculoskeletal Epidemiology study section, National Institutes of Health (mail reviewer)
2010 National Medical and Scientific Advisory Board, Association for Frontotemporal Degeneration
2010-11 Topic Chair, Behavioral Neurology Section, American Academy of Neurology annual meeting
2011-12 Topic Chair, Behavioral Neurology Section, American Academy of Neurology annual meeting

International

2005-2006 Neuroplasticity in Recovery of Brain Function: Insights From Animals and Humans, Winter Conference on Neural Plasticity (invited session chair)
2007 Grant Review Committee, Wellcome Trust for Biomedical Research

2008 Grant review committee, Dutch Research Council
2008 Grant review committee, Canadian National Medical Research Council
2008 Grant review committee, Health Research Board, Ireland
2008 Grant review committee, Alzheimer's Society of the United Kingdom
2010 Italian Ministry of Health, Member of External Grant Review Committee

Professional Societies:

1990- American Medical Writers Association, Member
1995- American Medical Association, Member
1996- Society for Neuroscience, Member
1997- American Association for the Advancement of Science, Member
1999- Massachusetts Medical Society, Member
2002- American Academy of Neurology, Member
2003- Organization for Human Brain Mapping, Member
2004- Cognitive Neuroscience Society, Member
2004- Behavioral Neurology Section, American Academy of Neurology, Member
2004- Society for Behavioral and Cognitive Neurology, Member
2005- Charles River Association for Memory, Founding Co-Chairperson

Editorial Boards:

2004- Ad-Hoc Reviewer, Hippocampus
2004- Ad-Hoc Reviewer, Medical Physics
2004- Ad-Hoc Reviewer, Brain
2004- Ad-Hoc Reviewer, Neurobiology of Aging
2005- Ad-Hoc Reviewer, Neuroimage
2005- Ad-Hoc Reviewer, Archives of Psychiatry
2005- Ad-Hoc Reviewer, Journal of Neuroimaging
2005- Ad-Hoc Reviewer, Neurology
2005- Ad-Hoc Reviewer, Journal of Neuroscience
2005- Ad-Hoc Reviewer, Archives of Neurology
2005- Ad-Hoc Reviewer, Human Brain Mapping
2006- Ad-Hoc Reviewer, The Lancet
2006- Ad-Hoc Reviewer, Annals of Neurology
2006- Ad-Hoc Reviewer, Cerebral Cortex
2006- Ad-Hoc Reviewer, Alzheimer's Disease and Associated Disorders
2006- Ad-Hoc Reviewer, Journal of the International Neuropsychological Society
2006- Ad-Hoc Reviewer, Learning and Memory
2006- Ad-Hoc Reviewer, Psychiatry Research: Neuroimaging
2006- Ad-Hoc Reviewer, Brain Imaging and Behavior
2006- Ad-Hoc Reviewer, Lancet Neurology
2007- Ad-Hoc Reviewer, Journal of Neuroimaging
2007- Ad-Hoc Reviewer, Journal of Neurology
2007- Ad-Hoc Reviewer, Neuropsychologia
2007- Co-Editor, Frontiers in Neuroscience
2008- Ad-Hoc Reviewer, Brain Imaging and Behavior
2008- Ad-Hoc Reviewer, Brain and Cognition
2008- Ad-Hoc Reviewer, CNS Spectrums
2008- Co-Editor, Open Neurology Journal
2008- Ad-Hoc Reviewer, Radiology

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| 2008- | Ad-Hoc Reviewer, Brain Research |
| 2008- | Ad-Hoc Reviewer, Cortex |
| 2008- | Editorial board, Hippocampus |
| 2009- | Ad-Hoc Reviewer, Neurorehabilitation & Neural Repair |
| 2010- | Ad-Hoc Reviewer, Biological Psychiatry |
| 2011- | Ad-Hoc Reviewer, New England Journal of Medicine |
| 2011- | Ad-Hoc Reviewer, Archives of Gerontology and Geriatrics |
| 2011- | Ad-Hoc Reviewer, Science Translational Medicine |
| 2011- | Ad-Hoc Reviewer, Neuron |
| 2011- | Ad-Hoc Reviewer, Proceedings of the National Academy of Sciences |

Awards and Honors:

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| 1995-1999 | James Scholar Program for Independent Study (research conducted in Morrell lab, Rush University), U. Of Illinois Col. Of Medicine |
| 1995 | Walter Rice Craig Summer Research Fellowship (conducted in lab of W.T. Greenough), U. Of Illinois Col. Of Medicine |
| 1996 | Honorable Mention, Student Research Day, U. Of Illinois Col. Of Medicine |
| 1996-1997 | Rush University Scholars Fellowship (Rush University Scholar Fellowship (F & L Morrell lab) , Rush University, Chicago IL |
| 1997 | Second place in Sigma Xi session of research forum, Rush University |
| 1998 | Alpha Omega Alpha, U. Of Illinois Col. Of Medicine |
| 1999 | David M. Olkon Honors Scholarship, U. Of Illinois Col. Of Medicine |
| 2001 | Outstanding Resident Teacher in Neurology, Harvard Medical School |
| 2003 | Partners in Excellence Award (Chief Residents), Harvard/Partners Neurology Program |
| 2003-2005 | Clinical Investigator Training Program, Harvard Medical School |
| 2005 | Mentor of the Year Award, Harvard/Partners Neurology Residency Training Program |
| 2007 | MGH Scientific Advisory Committee Poster of Distinction Award, Massachusetts General Hospital |

Part II: Research, Teaching, and Clinical Contributions

A. Narrative report of Research, Teaching, and Clinical Contributions

My research seeks to understand the neuroanatomic and neurophysiologic substrates of memory, language, emotion, social cognition, and other behavior in health, aging, and disease. I use structural and functional neuroimaging tools, as well as quantitative behavioral instruments, to study healthy younger and older individuals and those with cognitive impairment, including Alzheimer's disease, progressive aphasia, and frontotemporal dementias. An important line of this research has involved technical advances and development of reliable methods for anatomic and physiologic neuroimaging measurements, as well as pushing the limits of high resolution and high field MRI technology and computational neuroanatomy. I have identified in vivo anatomic and physiologic correlates of memory function, and have begun to translate some of these measures into potential biomarkers of Alzheimer's disease. In particular, I was the first to report the observation that some individuals with mild cognitive impairment, the first symptomatic phase of Alzheimer's disease prior to dementia, demonstrate hyperactivation of memory-related brain regions, which may be an indication of attempted physiologic compensation for pathologic change. I hope that these markers will be useful for identifying individuals who would be candidates for clinical trials of novel therapies for Alzheimer's disease and related neurodegenerative disorders. In 2007 I began a series of clinical research studies investigating the brain-behavioral basis of frontotemporal dementias, one aim of which will be to translate these cognitive-behavioral and imaging measures into biomarkers. In parallel with this work, I founded the MGH Frontotemporal Dementia Unit, which is a clinical-research unit that includes as its mission the provision of comprehensive multidisciplinary clinical care with the ultimate goal of translating research findings into methods for improved diagnosis and treatment. In recognition of this

work, I have been invited to participate in national and international collaborative consortia performing clinical research in FTD and related disorders. In my weekly clinic, I see patients with disorders of behavior and cognition (including many patients with neurodegenerative dementias). I seek to identify clinical problems that I can pursue through my research, and attempt to use the insights I gain through research to provide better clinical care. I take care of patients and supervise residents through a month of hospital service each year. I teach at a local and national level on the topics of behavioral neurology, memory function, Alzheimer's disease, frontotemporal dementias, and magnetic resonance imaging. I mentor students, research assistants, neurology and psychiatry residents and fellows, and neurology, psychiatry, and radiology junior faculty on research methods and career development, and run a "Summer Brain Camp" program for students at all levels to obtain exposure to neuroscience research. Finally, in 2005, I founded the Charles River Association for Memory and have chaired our organizing committee with Drs. Dan Schacter, John Gabrieli, and Howard Eichenbaum which has conducted successful meetings bringing together the diverse array of ~85 memory investigators and trainees in the greater Boston area for twice yearly meetings since then.

B. Funding Information

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| 2002-2007 | Investigator, N.I.H., P01 AG04953, Neuroimaging And Neuropsychological Studies Of Patients With Memory Problems |
| 2003-2005 | P.I., Company (Janssen), 210109, Psychophysical and fMRI studies of the effect of the cholinesterase inhibitor galanthamine on visual perceptual learning |
| 2003-2008 | P.I., N.I.H., K23AG22509, Structural-functional MRI Studies of Memory in MCI & AD |
| 2004-2006 | P.I., Company (Pfizer), A9001128, Development and analysis of automated region of interest identification for MRI: An MRI reliability and validity study |
| 2005-2008 | P.I., Company (Pfizer), 219340, Longitudinal MRI Morphometric Methods Analysis |
| 2006-2011 | Investigator, N.I.H., R01-AG027435, Evolution of memory-related fMRI activation over the course of MCI and AD |
| 2006-2007 | P.I., N.I.H., High-resolution MRI of brain function & structure in aging & MCI: A pilot study |
| 2007-2009 | P.I., Foundation, NIRG-07-58852 , Ultra-high resolution MRI of medial temporal lobe in MCI: A pilot study |
| 2006-2011 | Co-Investigator, N.I.H., R01 AG027435, Evolution of memory related fMRI over the course of MCI and AD |
| 2007-2012 | P.I., N.I.H., R01 AG029411, Medial temporal lobe subregions in aging, MCI and AD:Structural and functional MRI |
| 2008-2010 | P.I., N.I.H., R21AG029840, Ultrahigh-resolution MRI in vivo and ex vivo MRI of human medial temporal lobe |
| 2008-2013 | Co-Investigator, N.I.H., R01 NS062028, Small vessel disease and beta-amyloid deposition in mildly impaired cognition |
| 2009-2012 | P.I., Foundation, Alzheimer's Association, Biomarkers for Neurodegenerative Dementias |
| 2009-2014 | Co-Investigator, NIH P01 AG005134, Massachusetts Alzheimer's Disease Research Center |
| 2010-2015 | Co-Investigator, NIH R01 AG036694, Impact of amyloid on the aging brain |
| 2010-2014 | Co-Investigator, NIH R01 AG0323065, Neuroimaging in Frontotemporal Degeneration |
| Pending | P.I., N.I.H., R21, Development of socioaffective testing battery for FTD |
| Pending | P.I., NIH R01, Affective salience and memory in normal aging |

C. Report of Other (Non-Funded) Activities

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| P.I. | Brain-behavioral relationships in progressive aphasia and other frontotemporal dementias: Detailed language and MRI assessments |
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D. Report of Teaching

1. Local contributions

b. Graduate Medical Courses

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|-----------|--|--|-----------------------------------|----------------------------------|
| 2003- | <u>MGH Psychology Post-doctoral Seminar Series</u> | | <i>contact time</i> | <i>prep time</i> |
| | Lecturer | 6 Post-doc Students | 1 hours/year for 1 year(s) | 5 hours/year for 1 year(s) |
| 2004- | <u>Behavioral Neurology Elective</u> | | <i>contact time</i> | <i>prep time</i> |
| | Attending | 10 Medical Students 12 Residents | 10 hours/month for 12 month(s) | 1 hours/month for 12 month(s) |
| 2004-2009 | <u>Neurologic Neuroimaging Elective</u> | | <i>contact time</i> | <i>prep time</i> |
| | Attending | 2 Residents | 30 hours/year for 1 year(s) | 5 hours/year for 1 year(s) |
| 2005- | <u>Ward attending</u> | | <i>contact time</i> | <i>prep time</i> |
| | Attending | 4 Medical Students 4 Residents | 75 hours/month for 1 month(s) | 30 hours/month for 1 month(s) |

c. Local Invited Presentations

Grand Rounds

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| 2004 | Alzheimer_s Disease: Clinical and Research Update, Spaulding Rehabilitation Hospital |
| 2005 | Alzheimer_s Disease: Research Update, Map Through the Maze Regional Alzheimer's Conference Lecturer: 50 participants, 1.5 hours contact time per year, 20 hours prep time per year |
| 2005 | Early diagnosis of Alzheimer's disease: A missed opportunity, Winchester Hospital Lecturer: 65 participants, 1 hour contact time per year, 20 hours prep time per year |
| 2006 | Grand Rounds: Early detection of Alzheimer's disease: New opportunities, Youville Hospital Lecturer: 30 participants, 1 hour contact time per day, 20 hours prep time per day |
| 2006 | Advances in Alzheimer's Research and Treatment, North Shore Medical Center |

(Union Hospital), Lynn, MA
Lecturer: 10 participants, 1 hour contact time per year,
20 hours prep time per year

- 2007 Cortical structure and function in aging and Alzheimer's disease, Brigham and Women's Hospital Behavioral Neuroscience Rounds
Lecturer: 25 participants, 1 hour contact time per year,
20 hours prep time per year
- 2007 Cortical structure and function in aging and Alzheimer's disease, Massachusetts General Hospital Department of Neurology
Lecturer: 35 participants, 1 hour contact time per year,
20 hours prep time per year
- 2008 Where does Alzheimer's Disease begin in the brain: a paradigm shift. New insights from novel in vivo imaging and postmortem data, 963rd meeting of the Boston Society of Neurology and Psychiatry
Lecturer: 80 participants, 2 hours contact time per day,
10 hours prep time per day

Other

- 2006 Advances in High-resolution MRI imaging: Clinical applications, Massachusetts General Hospital: Martinos Center Siemens Collaborative Roundtable
Lecturer: 40 participants, no contact time reported, 20 hours prep time per year

Seminar

- 2004 Visual Memory and Alzheimer's Disease, Massachusetts Institute of Technology Brain & Cognitive Sciences seminar series
Lecturer: 7 participants, 2 hours contact time per year,
10 hours prep time per year
- 2005 Memory-related medial temporal lobe activity in mild cognitive impairment: Testing the compensatory hypothesis, Boston University Center for Memory and Brain seminar series
Attending: 20 participants, 1.5 hours contact time per year,
20 hours prep time per year
- 2005 Anatomy and Physiology of Memory in Mild Cognitive Impairment, Boston University Alzheimer's Disease Research Center seminar series
Lecturer: 38 participants, 1 hour contact time per year,
15 hours prep time per year
- 2005 Neural correlates of free recall: An event-related fMRI study, Harvard University Cognitive Psychology seminar series
Attending: 25 participants, 1.5 hours contact time per year,
20 hours prep time per year
- 2006 Medial temporal lobe function and structure: Aging, MCI, and Alzheimer's disease, Massachusetts Institute of Technology: Brain & Cognitive Sciences

- Corkin lab meeting
Lecturer: 9 participants, 2 hours contact time per year,
5 hours prep time per year
- 2006 Brain structure and function in very early Alzheimer's disease: Insights from MRI of living humans, Boston University Alzheimer's Disease Research Center Seminar Series
Lecturer: 35 participants, 1 hour contact time per year,
20 hours prep time per year
- 2006 The cortical signature of Alzheimer's disease: Reliability and applications, Massachusetts General Hospital Gerontology Research Unit seminar series
Lecturer: 29 participants, 1 hour contact time per year,
20 hours prep time per year
- 2007 Cortical structure and function in aging and Alzheimer's disease, Massachusetts General Hospital Martinos Center Brain Mapping Seminar
Lecturer: 24 participants, 1 hour contact time per year,
20 hours prep time per year
- 2007 Clinical prediction of cognitive decline: Use of CDR-SB and neuropsychological testing, Massachusetts General Hospital
Lecturer: 40 participants, 1 hour contact time per day,
10 hours prep time per day

Seminar (CSAIL seminar series)

- 2006 Computational challenges in measuring brain structure and function in aging, MCI, and AD, Massachusetts Institute of Technology
Lecturer: 12 participants, 2 hours contact time per day,
15 hours prep time per day

d. Continuing Medical Education Courses

- 2006 Harvard Annual Psychiatric Neuroscience Course: A Primer for Clinicians-- Neuroimaging and the Neurobiology of AD
Lecturer: 40 participants, 2 hours contact time per day,
30 hours prep time per day
- 2007 Dementia: A Comprehensive Update
Lecturer on Neuroimaging in Dementia: 200 participants,
1 hour contact time per year, 50 hours prep time per year
- 2007 Dementia: A Comprehensive Update
Lecturer on Frontotemporal Dementia: 200 participants,
1 hour contact time per year, 50 hours prep time per year
- 2007 Harvard/MIT/MGH Short course on multimodal neuroimaging
Lecturer: 57 participants, 1 hour contact time per day,
10 hours prep time per day
- 2008 Dementia: A Comprehensive Update
Lecturer on Neuroimaging in Dementia: 200 participants,

- 2008 1 hour contact time per day, 20 hours prep time per day
Harvard/MIT/MGH Short course on multimodal neuroimaging
 Lecturer: 57 participants, 1 hour contact time per day,
 10 hours prep time per day
- 2009 Dementia: A Comprehensive Update
 Lecturer on Neuroimaging in Dementia: 300 participants,
 1 hour contact time per day, 20 hours prep time per day
- 2009 Harvard/MIT/MGH Short course on multimodal neuroimaging
 Lecturer: 57 participants, 1 hour contact time per day,
 10 hours prep time per day
- 2010 Dementia: A Comprehensive Update
 Lecturer on Neuroimaging in Dementia: 300 participants,
 1 hour contact time per day, 20 hours prep time per day
- 2010 Harvard/MIT/MGH Short course on multimodal neuroimaging
 Lecturer: 57 participants, 1 hour contact time per day,
 10 hours prep time per day
- 2011 Dementia: A Comprehensive Update
 Co-Director: 300 participants, 1 hour contact time per day,
 20 hours prep time per day

e. Advisory and Supervisory Responsibilities in Clinical or Laboratory Setting

- 2004- 3 Residents for 100 hrs/year, Precepting in lab, Harvard Medical School
 2009- Precept/supervise clinical evaluations performed by 1-2 behavioral neurology
 fellows with every other week clinics in MGH FTD Unit

f. Leadership Roles

- 2003 Preceptor, Harvard Behavioral Neurology Elective, Harvard Medical School
Responsibility: Supervise the elective experience of Harvard Medical Students
 with special interest in behavioral neurology
Special Accomplishments: I supervised Alice Chen-Plotkin in designing and
 executing this elective which received credit as an elective.
- 2004- Invited Lecturer, HST 583: Functional Magnetic Resonance Imaging: Data
 Acquisition and Analysis, Harvard Medical School
Responsibility: Have given 5 lectures in this HST course in 2004, 2006, 2008,
 2010 (planned) and plan to do so again every other year.
- 2010 Invited Lecturer, HST 563: Imaging Biophysics and Clinical Applications
 Responsibility: Gave one lecture in this course on MRI/PET imaging
 applications to neurologic disorders
- 2010 Invited Lecturer, HMS Neurobiology 200
 Responsibility: Invited to give one lecture in this course on Memory Disorders

g. Advisees/Trainees

| <i>Training Duration</i> | <i>Name</i> | <i>Current Position</i> |
|--------------------------|--------------------|--|
| 2004-2006 | Rahul Desikan | BU MD, PhD student (external advisor on dissertation work); now radiology resident at UCSD |
| 2005-2007 | Rebecca Melrose | BU psychology graduate student (external advisor on dissertation committee); now post-doctoral psychology fellow, |

| | | UCLA |
|-----------|----------------------------|---|
| 2005-2007 | Keith Vossel | Neurology Resident (extended research mentoring): now post-doctoral research/behavioral neurology Fellow, UCSF |
| 2005-2007 | Richard King | Neurology Resident (extended research mentoring): Assistant Professor of Neurology, Univ of Utah |
| 2006-2007 | Lindsay Barker | Suffolk University graduate student in psychology (mentor on dissertation research project): Now post-doctoral psychology fellow, Brigham & Women's/MGH |
| 2006 | David Koh | High school student, participant in Dickerson Lab Summer Brain Camp: Now undergraduate MIT student |
| 2006-2007 | Frida Polli | Suffolk University graduate student in psychology (mentor on dissertation research project): Now post-doctoral research fellow, MIT |
| 2007 | Min Deng | AFAR Summer Medical Student research award (primary mentor): Now medical student |
| 2007 | Christine Lai | High school student, participant in Summer Brain Camp: Now undergraduate student |
| 2007-2008 | Daisy Sapolsky | Clinical fellow in speech pathology: Now staff Speech Pathologist, MGH |
| 2008- | Liang Wang, M.D. | Radiologist, Current post-doctoral research fellow |
| 2008 | Aaron Shmookler | AFAR Summer Medical Student research award: Now medical student, U of Toledo OH |
| 2008 | Dina Gozman | Medical student, participant in Summer Brain Camp, Ohio State University Coll Medicine |
| 2008-2009 | Ugwechi Amadi | Undergraduate Student participant in Summer Brain Camp, MIT |
| 2008- | Kimiko Domoto-Reilly, M.D. | Current behavioral Neurology fellow, MGH/BWH (I am her primary clinical research mentor): Imaging biomarkers of Frontotemporal dementia |
| 2008- | Scott McGinnis, M.D. | Instructor in Neurology, HMS (faculty mentor on Pilot ADRC Grant and ongoing research): Anatomy of the insula in Frontotemporal dementia |
| 2008-2010 | Stephane Poulin, M.D. | Post-doctoral neuropsychiatry fellow, now with faculty position in Quebec: Anatomic correlates of neuropsychiatric symptoms in dementia |
| 2008-2009 | Lucille Pellerin, M.D. | Post-doctoral internist fellow, now with faculty position in Paris: Face processing in dementia; Caregiver burden in dementia |
| 2009- | Belen Pascual, Ph.D. | Psychologist, Current post-doctoral research fellow: Large-scale brain networks for social cognition in health and dementia |
| 2009- | Yakeel Quiroz, M.S. | Boston University PhD student dissertation advisor (on committee): Cortical thinning in individuals at genetic risk for Alzheimer's disease |
| 2010- | Kristen Lindquist, Ph.D. | Post-doctoral psychology research fellow (awarded Harvard MBB fellowship with my mentorship): Emotional processing abnormalities in Frontotemporal Dementia |
| 2010-2011 | Priya Doerga, B.S. | Holland medical student research master's thesis project, VU University, Amsterdam: A method for segmenting amygdala subnuclei |
| 2010-2011 | Pascal Lie, B.S. | Holland medical student research master's thesis project, VU University, Amsterdam: A method for segmenting hippocampal subfields |

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| 2010- | Jessica Pan | Brown University senior undergraduate student honor's thesis project: A method for parcellating the orbitofrontal cortex |
| 2010- | Kevin Bickart, B.S. | Boston University MD, PhD student dissertation co-advisor (on committee): The amygdala and its networks in social cognition |
| 2010- | Sarah George, B.S. | Rush University, PhD student dissertation co-advisor (on committee): The substantia innominata in aging and Alzheimer's disease |
| 2011- | Marie-Christine Nizzi, PhD | Post-doctoral philosophy fellow, Harvard Department of Philosophy: Face recognition and identity in dementias |

2. Regional, national, or international contributions

a. Invited Presentations

Regional

| | |
|------|--|
| 2006 | Grand Rounds: Memory-related brain function and structure in aging, MCI, and AD, Brown University Department of Neurology <i>[Invited Lecture]</i> |
| 2007 | |
| 2008 | Brain networks and memory dysfunction, Charles River Association for Memory Biannual Meeting plenary talk <i>[Invited Lecture]</i> |
| 2009 | The cortical signatures of neurodegenerative dementias, Bedford VA GRECC Grand Rounds <i>[Invited Lecture]</i> |

National

| | |
|------|---|
| 2004 | Visual encoding in questionable Alzheimer's disease, Cognitive Neuroscience Grand Rounds, Johns Hopkins Hospital <i>[Invited Lecture]</i> |
| 2005 | Medial temporal lobe function and structure: Health, cognitive impairment, and Alzheimer's disease, Washington University Alzheimer's Disease Research Center <i>[Visiting Professorship]</i> |
| 2007 | The cortical signature of Alzheimer's disease, University of Pittsburgh Alzheimer Center <i>[Invited Lecture]</i> |
| 2007 | The cortical signature of Alzheimer's disease: Abnormalities in the anatomy and activity of the cerebral cortex, Emory University Alzheimer Center <i>[Invited Lecture]</i> |
| 2008 | Advances in the early diagnosis of Alzheimer's disease: Imaging biomarkers, Christ Hospital, Chicago, IL <i>[Invited Lecture: Psychiatry Grand Rounds]</i> |
| 2008 | Network dysfunction in Alzheimer's disease, NIH Workshop on Epilepsy and Dementia (Invited lecture) |
| 2010 | Quantitative Imaging as a Marker of Diagnosis and Progression of Neurodegenerative Diseases (Invited talk in Dr. Walter Koroshetz's Future of Neuroscience conference at American Academy of Neurology meeting, Toronto, ON) |
| 2011 | Alzheimer-signature MRI biomarker predicts likelihood of AD dementia in cognitively normal adults (Invited talk in Dr. Ron Petersen's Future of Neuroscience conference at American Academy of Neurology meeting, Honolulu, HI) |

International

- 2004 Functional and Structural MRI in Questionable Alzheimer's Disease: Relationships to Clinical Impairment and Future Decline, 9th International Conference on Alzheimer's Disease and Related Disorders*[Invited Lecture]*
- 2005 Functional MRI in Mild Cognitive Impairment: Relationships to Clinical Status and Risk of Dementia, Winter Conference on Neural Plasticity (Guadeloupe)*[Invited Lecture]*
- 2006 Functional neuroimaging of plasticity in neurological disorders, Winter Conference on Neural Plasticity (Barbados)*[Invited Lecture]*
- 2006 Functional neuroimaging of dementia, French Neurological Society, Centennial Celebration of Professor Alzheimer (Paris)*[Invited Lecture]*
- 2006 The cortical signature of Alzheimer's disease: Quantitative measures of neocortical anatomy in living humans, University College of London, Centre for Neuroimaging Techniques*[Invited Lecture]*
- 2010 Quantitating Severity and Progression of Primary Progressive Aphasia, International Conference on Frontotemporal Dementia, Indianapolis, IN, USA*[Invited Lecture]*

b. Professional Leadership Roles related to Teaching

- 2006 National American Academy of Neurology
MRI of Degenerative Diseases in AAN full-day course on Update on MRI: Techniques and Applications (invited lecture during a national CME course for the American Academy of Neurology).
- 2007 National American Academy of Neurology
Session co-chair, Functional Neuroimaging Scientific Session, AAN 2007 Annual Meeting
- 2008 National American Academy of Neurology
Functional MRI in Neurologic Disorders in AAN full-day course on Update on MRI: Techniques and Applications (invited lecture during a national CME course for the American Academy of Neurology).
- 2008 National American Academy of Neurology
Session Co-Chair, Learning and Memory Scientific Session, AAN 2008 Annual Meeting
- 2009 National American Academy of Neurology
Memory systems of the brain in AAN half-day course on Primer of Cognitive Neurology (invited lecture during a national CME course for the American Academy of Neurology).
- 2010 National American Academy of Neurology
Parietal lobe systems of the brain in AAN half-day course on Primer of Cognitive Neurology (invited lecture during a national CME course for the American Academy of Neurology).
- 2010 National American Academy of Neurology
Course director, AAN half-day course on Primer of Cognitive Neurology (~300 neurologists, affiliated specialists, trainees).

- 2011 National American Academy of Neurology
Course director, AAN half-day course on Primer of Cognitive Neurology (~300 neurologists, affiliated specialists, trainees).
- 2011 National American Academy of Neurology
“Quantitative MRI Biomarkers for Early Detection, Differential Diagnosis, Prognosis and Monitoring in Alzheimer's Disease” in AAN half-day course on Neuroimaging and Other Biomarkers for MCI and Alzheimer's Disease (invited lecture during a national CME course for the American Academy of Neurology).

3. Description of Teaching Award(s) Received

- 2001 Outstanding Resident Teacher in Neurology
Harvard Medical School
- 2002 Partners in Excellence Award (Neurology Chief Residents)
Harvard Partners Neurology Residency Program
- 2005 Mentor of the Year Award
Harvard Partners Neurology Residents

E. Report of Clinical Activities

- 2003-2006 Neurology, Behavioral neurology Brigham and Women's Hospital
Clinical Activity Description: I evaluate and treat patients in the Division of Cognitive and Behavioral Neurology at BWH on a weekly basis. These patients are complex cases with dementia, head injury, or other disorders causing cognitive and behavioral symptoms. Many are referred for high-level consultation.
Patient Load: 5/week; High level of complexity
- 2003- Neurology, Massachusetts General Hospital
Clinical Activity Description: I see patients on the MGH General Neurology Consultation service one month per year. Many of these cases require complex consultative evaluations for diagnostic and therapeutic purposes.
Patient Load: 3/day for one month; Mid to high level complexity
- 2006-2008 Neurology, Memory disorders Massachusetts General Hospital
Clinical Activity Description: I evaluate and treat patients in the Memory Disorders Unit/Alzheimer's Disease Research Center at MGH on a weekly basis. These patients are complex cases with dementia or other disorders causing cognitive and behavioral symptoms. Many are referred for high-level consultation.
Patient Load: 5/week; High level of complexity
- 2008- NeNeurology, Memory disorders Massachusetts General Hospital
Clinical Activity Description: I evaluate and treat patients in the Memory Disorders Unit/Alzheimer's Disease Research Center at MGH on a weekly basis. These patients are complex cases with dementia or other disorders causing cognitive and behavioral symptoms. Many are referred for high-level consultation.
Patient Load: 8/week; High level of complexity

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