

Curriculum Vitae

Michael A. Yassa, M.A.

Center for Neurobiology of Learning and Memory
211 Qureshey Research Laboratory
University of California, Irvine
Irvine, CA 92697-3800

Tel: (949) 824-4230 Fax: (949) 824- 2447

Email: myassa@uci.edu Web: <http://tinyurl.com/yassa>

EDUCATION

- 2005 - Ph.D. in Neurobiology and Behavior** (Advisor: Craig Stark, PhD)
Center for Neurobiology of Learning and Memory
Neurobiology and Behavior, University of California, Irvine, CA
- 2005 - 2007 M.A. in Cognitive Psychology** (Advisor: Craig Stark, PhD)
Psychological and Brain Sciences, Johns Hopkins University, Baltimore MD
- 1998 - 2002 B.A. in Neuroscience** (General and Departmental Honors)
Johns Hopkins University School of Arts and Sciences, Baltimore MD

ACADEMIC POSITIONS

- 2008 - Adjunct Professor**
School of Social and Behavioral Sciences, Irvine Valley College, Irvine, CA.
Develop and teach college-level courses in psychology and neuroscience.
Provide academic guidance and mentorship to college students.
- 2005 - Graduate Research Fellow** (Advisor: C.E.L. Stark, PhD)
Psychology, Johns Hopkins University, Baltimore, MD (2005-2007);
Neurobiology and Behavior, University of California, Irvine, CA (2008 -).
fMRI of the human hippocampus in aging and dementia.
Localization of function and dynamic interactions in hippocampal networks.
Hippocampal connectivity in aging and dementia using MRI and DTI.
fMRI of the neural basis of fear and anxiety in generalized anxiety disorder.
Methods development for MRI, fMRI and diffusion tensor imaging (DTI).
- 2003 - Research and Development Consultant**
Psychiatry, Johns Hopkins University, Baltimore, MD.
fMRI experimental design, research, development, and quality control.
Development of analytical approaches of fMRI data of psychiatric patients.
Development of pharmacological fMRI methods.
- 2004 - 2005 Senior Research Technologist**
Psychiatry, Johns Hopkins University, Baltimore, MD (S. Bassett, Ph.D.)
fMRI of verbal memory in individuals at familial risk for AD.
Pharmacological fMRI of verbal memory in geriatric depressed individuals.
fMRI and DTI of white matter atrophy in Huntington's disease patients.

Development of new techniques for fMRI and DTI data analysis.
Project management, training and supervision of junior staff.

2002 - 2004 Psychology Research Technician

Psychiatry, Johns Hopkins University, Baltimore, MD (G. Pearlson, M.D.)
Formal thought disorder and semantic recall in schizophrenia patients.
Age-related changes in cognition and structural MRI correlates.

1999 - 2002 Research Assistant

Psychiatry, Johns Hopkins University, Baltimore, MD (G. Pearlson, M.D.)
Neuroanatomical measurements on structural MRI scans.
Structural MRI correlates of schizotypy in a community sample.
Training on functional and structural MRI methods.

AWARDS AND HONORS

National Science Foundation Graduate Research Fellowship Award (2007-2010)
National Science Foundation Graduate Research Honorable Mention (2006)
JHU Student Excellent Award for Leadership and Service (2003)
National Biological Honor Society (elected 2001)
National Honor Society in Psychology (elected 2001)
National Honor Society for Neuroscience (elected 2001, Johns Hopkins University Chapter President 2002-03, University of California, Irvine Organizing Committee Chair 2009)

PROFESSIONAL ACTIVITIES AND MEMBERSHIPS

Ad hoc reviewer for *NeuroImage*, *Hippocampus*.
Ad hoc reviewer on behalf of Craig Stark for *The Journal of Neuroscience*, *PNAS*, *Neuron*.
Member: American Psychological Association (since 2000), American Public Health Association (since 2001), Society for Neuroscience (since 2005), Cognitive Neuroscience Society (since 2005), Faculty for Undergraduate Neuroscience (since 2005).

ACADEMIC SERVICE

- 2009 Annual Conference Session Chair**
Center for Neurobiology of Learning and Memory, Irvine, CA.
- 2008 - Graduate Seminar Coordinator**
University of California, Irvine - Neurobiology and Behavior.
- 2008 - Medial Temporal Lobe Journal Club Founder and Coordinator**
University of California, Irvine - Neurobiology and Behavior.
- 2008 Annual Conference Discussion Panel Moderator**
Center for Neurobiology of Learning and Memory, Irvine, CA.
- 2006 - 2007 Colloquium Committee Representative**
Johns Hopkins University - Psychological and Brain Sciences.

2006 - 2007 fMRI Journal Club Coordinator

Johns Hopkins University - Psychological and Brain Sciences.

TEACHING ACTIVITIES

Neuroscience, Psychology and Related Courses

Instructor, Physiological Psychology, Irvine Valley College, Irvine, CA.

Fall 2008, Spring 2009, Summer 2009, Fall 2009

This is an advanced psychology course covering the anatomy of the nervous system, neural communication, systems neuroscience, neuropsychopharmacology, learning and memory, emotion, language, biological rhythms and mental disorders. It is taught as an interactive lecture course. *Course evaluations available.*

Instructor, Research Methods, Irvine Valley College, Irvine, CA.

Spring 2009

This is a rigorous psychology course that covers aspects of research design, statistical analyses, experimental psychology, hypothesis testing, scientific writing and oral communication and APA style. The course is taught as a seminar/small lecture course with active participation from students. *Course evaluations available.*

Instructor, Introduction to Psychology, Irvine Valley College, Irvine, CA.

Summer 2009

This interactive multimedia-rich lecture course introduces students to all aspects of psychology, with an emphasis on biological psychology. Topics ranging from history of psychology to cognitive neuroscience to social psychology are covered.

Instructor, Neuroepidemiology, Johns Hopkins Public Health, Baltimore MD.

Spring 2002

This semester-long course was conducted as a series of lectures and discussions of readings on topics in epidemiology and neuroscience. A dataset of lead factory workers with neurological deficits due to occupational exposure to lead was used as a basis for discussion.

Teaching Assistant in Psychology, Johns Hopkins University, Baltimore, MD.

Fall 2005 – Fall 2007

Human Sexuality (Fall '07), Introduction to Psychology (Spring '07), Behavioral Medicine (Fall '06), Foundations of Mind (Spring '06), Cognitive Neuroscience of Memory (Fall '05).

Responsibilities included teaching weekly discussion sections, lecturing, formulating and grading exams, and holding weekly office hours and review sessions.

Methods Courses

Course Director, Introduction to MRI, Johns Hopkins University, Baltimore, MD.

Summer 2003

This 1-day course was aimed at undergraduate students and junior staff at the Division of Psychiatric Neuroimaging. It covered MR physics, BOLD signal, magnetic susceptibility and other topics of relevance to MRI. The course emphasized structural MRI, although an overview of fMRI theory was included.

Course Director, Statistical Parametric Mapping, Johns Hopkins University, Baltimore, MD.
Summer 2004

This 1-day course was aimed at staff and students at the Division of Psychiatric Neuroimaging. It was taught in lecture format combined with a practical session, where students conducted SPM preprocessing and analysis on demo datasets.

Course Director, MRI/fMRI Physics, Johns Hopkins University, Baltimore, MD.
Summer 2005

This was a 3-day introductory course that addressed basic topics such as MR physics, BOLD signal components, basic experimental design and setting up an fMRI experiment, pulse sequences, and MR artifacts.

Course Director, Advanced topics in MRI/fMRI, Johns Hopkins University, Baltimore, MD
Summer 2006

This was a 5-day advanced-level course that addressed topics that ranged from computational neuroanatomy to complex mixed block and event-related fMRI experimental designs. Attendees for both included full-time clinical faculty, staff, post-doctoral fellows and graduate students.

UNDERGRADUATE RESEARCH ADVOCACY

Co-Founder and Editor of the **Hopkins Undergraduate Research Journal**

The annual publication was founded at the Johns Hopkins University in 2002 to support and foster undergraduate research and build a stronger foundation in peer-reviewed research among undergraduates. The journal is an independent, financially viable organization that collects revenue from advertising.

Co-Founder of the **Undergraduate Research Symposium**

The symposium was founded at the Johns Hopkins University in 2001 to give undergraduates conducting their own research projects the opportunity to share and be recognized for their work. The symposium is a 1-2 day event and culminates in an awards ceremony for the best talk, as well as a keynote speech by a well-known scientist. The symposium was awarded the Student Excellent Award for Leadership and Service in 2003.

Chairman of the Organizing Committee for the UCI chapter of the **National Honor Society for Neuroscience, Nu Rho Psi**

The chapter of the society established at the University of California, Irvine (*Beta* in California) focuses mainly on encouraging undergraduate neuroscience majors to get involved in research, share their research interests, communicate with their peers in a scientific manner through posters, meetings, and presentations.

PEER-REVIEWED PUBLICATIONS (in chronological order)

1. Assaf, M., Rivkin, P., Kuzu, C., Calhoun, V., Kraut, M., Groth, K., **Yassa, M.A.**, Hart, J., Pearlson, G. (2005) Abnormal Object-Recall and Anterior Cingulate Over-activation Correlate with Formal Thought Disorder in Schizophrenia. *Biological Psychiatry* 59: 452-459.

2. Bassett, S., Kusevic, I., Cristinzio, C., **Yassa, M.A.**, Avramopoulos, D., Yousem, D., Fallin, M. (2005) Brain activation in offspring of AD cases corresponds to 10q linkage. *Annals of Neurology* 58: 142-146.
3. Reading, S., **Yassa, M.A.**, Dziorny, A., Gourley, L., Yallapragada, V., Rosenblatt, A., Margolis, R., Aylward, E., Brandt, J., Mori, S., van Zijl, P., Bassett, S., Ross, C. (2005) Regional white matter change in pre-symptomatic Huntington's disease: a diffusion tensor imaging study. *Psychiatry Research: Neuroimaging* 140(1): 55-62.
4. Bassett, S., Yousem, D., Cristinzio, C., Kusevic, I., **Yassa, M.A.**, Caffo, B., Zeger, S. (2006) Familial risk for Alzheimer's disease alters fMRI activation patterns. *Brain* 129: 1229-1239.
5. Bazin, P.L., Cuzzocreo, J.L., **Yassa, M.A.**, Gandler, W., McAuliffe, M.J., Bassett, S.S., Pham, D.L. (2007) Volumetric neuroimage analysis extensions for the MIPAV software package. *Journal of Neuroscience Methods* 165(1):111-21.
6. **Yassa, M.A.**, Verduzco, G., Cristinzio C., Bassett, S. (2008) Altered fMRI activation during mental rotation in those at genetic risk for Alzheimer's disease. *Neurology* 70(20):1898-904.
7. **Yassa, M.A.**, Stark, C.E.L. (2008) Multiple Recognition-related signals in the medial temporal lobe. *Hippocampus* 18(9): 945-954.
8. **Yassa, M.A.**, Stark, C.E.L. (2009) A quantitative evaluation of cross-participant alignment techniques for MRI studies of the medial temporal lobe. *Neuroimage* 44(2):319-327.
9. Cuzzocreo, J., **Yassa, M.A.**, Verduzco, G., Honeycutt, N., Scott, D., Bassett, S. (2009) Effect of handedness on a verbal auditory memory fMRI task. *Human Brain Mapping* 30(4):1271-8.
10. Yousem, D.M., **Yassa, M.A.**, Cristinzio, C., Kusevic, I., Mohamed, M., Caffo, B.S., Bassett, S.S. (2009) Intelligence and medial temporal lobe function in older adults: A Functional MR Imaging-based investigation. *American Journal of Neuroradiology* 30(8):1477-81.

MANUSCRIPTS UNDER REVIEW

1. **Yassa, M.A.**, Muftuler, L.T., Stark, C.E.L. Ultrahigh-resolution microstructural diffusion tensor imaging (msDTI) elucidates perforant path degradation in aged humans in vivo.
2. **Yassa, M.A.**, Stark, S.M., Bakker, A., Albert, M.S., Gallagher, M., Stark, C.E.L. High-resolution functional MRI of hippocampal CA3 and dentate gyrus in patients with amnesic mild cognitive impairment.
3. **Yassa, M.A.**, Wu, J., Stark, S.M., Albert, M.S., Gallagher, M., Stark, C.E.L. Pattern separation deficits associated with increased hippocampal CA3 and dentate gyrus activity in nondemented older adults.
4. Gallagher, M., Bakker, A., **Yassa, M.A.**, Stark, C.E.L. Bridging neurocognitive aging and disease modification: targeting functional mechanisms of impairment.
5. Hoehn-Saric, R., **Yassa, M.A.**, Hazlett, R., Stark, C.E.L. Functional MRI of the amygdala and the BNST during cued and generalized anxiety in GAD patients and controls.
6. Reading, S., **Yassa, M.A.**, Bakker, A., Cuzzocreo, J., Bazin, P.L., Pham, D.L., Caffo, B., Dziorny, A., Mori, S., van Zijl, P., Bassett, S.S., Ross, C. White matter disorganization precedes degeneration in presymptomatic Huntington's disease.
7. Bonekamp, D., **Yassa, M.A.**, Munro, C. Geckle, R., Brandt, J., Yousem, D., Horska, A. Neuropsychological functioning and gray matter volume in amnesic mild cognitive impairment.
8. Little, J., **Yassa, M.A.**, Gerstenhaber, M., Yeager, S., Kweku, J., Yousem, D., Bassett, S. Regional Brain Activation in Geriatric Depression.

PUBLISHED ABSTRACTS, PAPER, AND POSTER PRESENTATIONS

1. Assaf, M., **Yassa, M.A.**, Pearlson, G., Schretlen, D. (2003) Demographic and Cognitive Correlates of Performance in the Iowa Gambling Task in a Community Sample of Adults. *Eastern Psychological Association (EPA)* 74, 28.
2. Scott, D., **Yassa, M.A.**, Honeycutt, N., Pearlson, G., Schretlen, D. (2003) A Voxel-Based Morphometric Analysis for Normal Adult Age- and Sex- Differences in Neuroanatomy. *Eastern Psychological Association (EPA)* 74, 28.
3. **Yassa, M.A.**, Kweku J., Scott, D., Honeycutt, N., Rivkin, P., Pearlson G., Schretlen, D. (2003) Cognitive and Neuroanatomic Correlates of Schizoid Personality Traits in an Adult Community Sample. *Eastern Psychological Association (EPA)* 74, 28.
4. Kuzu, C., Rivkin, P., Pearlson, G., Hart, J., Calhoun, V., Kraut, M., **Yassa, M.A.**, Assaf, M. (2004) fMRI Activation during a Feature-Binding Semantic Task in Schizophrenia. *American Psychiatric Association (APA)*.
5. Mohamed, M., Yousem, D., Kusevic, I., Cristinzio, C., Honeycutt, N., El-Deib, A., **Yassa, M.**, Caffo, B., Bassett, S. (2004) Lack of Education and Intelligent Quotient Effects on Hippocampal Activity in a Functional MRI Experiment. *American Society for Neuroradiology (ASNR)*.
6. Assaf, M., Kuzu, C., Rivkin, P., Calhoun, V., Hart, J., Kraut, M., **Yassa, M.A.**, Pearlson, G. (2004) fMRI Evidence for Abnormal Semantic Processing in Schizophrenia. *Biological Psychiatry* 55 (8S); 18.
7. Rivkin, P., **Yassa, M.A.**, Kraut, M., Kanaan, R., Reading, S., Calhoun, V., Hart, J., Pearlson, G. (2004) Absence of anterior cingulate activation in schizophrenic individuals during a semantic feature-binding task. *Biological Psychiatry* 55 (8S); 124.
8. Cristinzio, C., **Yassa, M.A.**, Kusevic, I., Honeycutt, N., Baird, S., Caffo, B., Yousem, D., Bassett, S. (2004). Limbic structural changes associated with increased neuroticism in an adult sample. *Biological Psychiatry* 55 (8S); 185.
9. Bassett, S., Kusevic, I., Cristinzio, C., **Yassa, M.A.**, Avramopoulos, D., Yousem, D., Fallin, D. (2004) Differential fMRI Activation Patterns in Offspring of Late-Onset AD Cases Corresponds to Previously Identified Linkage Heterogeneity According to Parental Affection Status. *XIIth World Congress on Psychiatric Genetics*.
10. **Yassa, M.A.**, Honeycutt, N., Bassett, S., Scott, D., Schretlen, D., Pearlson, G. (2004) Focal Gray Matter Density Reduction in Individuals with Schizoid Personality Traits. *Biological Psychiatry* 55 (8S); 38.
11. Little, J., **Yassa, M.A.**, Gerstenhaber, M., Yeager, S., Kweku, J., Yousem, D., Bassett, S. (2005) Regional Brain Activation in Geriatric Depression. *American Association of Geriatric Psychiatry (AAGP)*.
12. Bonekamp, D., **Yassa, M.A.**, Munro, C. Geckle, R., Brandt, J., Yousem, D., Horska, A. (2005) Reduced temporal gray matter volume in MCI as detected by voxel based morphometry. *International Society for Magnetic Resonance in Medicine (ISMRM)*.
13. Bassett, S., Kusevic, I., Cristinzio, C., **Yassa, M.A.**, Yousem, D. (2005) APOE e4 allele and fMRI activation patterns. *XIIIth World Congress on Psychiatric Genetics*.
14. **Yassa, M.A.**, Stark, C.E.L. (2007). Neural correlates of encoding and retrieval processes in the medial temporal lobe during multiple recognition. *Cognitive Neuroscience Society (CNS)*.
15. **Yassa, M.A.**, Stark, C.E.L. (2008). fMRI of hippocampal pattern separation in healthy aging and mild cognitive impairment. *Center for Neurobiology of Learning and memory (CNLM) Spring Meeting*.

16. **Yassa, M.A.**, Albert, M.S., Gallagher, M., Stark, C.E.L. (2008) Functional MRI of hippocampal subfields in healthy aging and mild cognitive impairment. *International Conference on Alzheimer's Disease (ICAD) and the Alzheimer's Disease Imaging Consortium*.
17. **Yassa, M.A.**, Albert, M.S., Gallagher, M., Stark, C.E.L (2008) Neurocognitive aging and pattern separation in hippocampal CA3 and dentate gyrus. *Society for Neuroscience Annual Meeting*.
18. Stark, C.E.L., **Yassa, M.A.** (2008). A Quantitative evaluation of cross-participant registration techniques for MRI Studies of the medial temporal lobe. *Society for Neuroscience Annual Meeting*.
19. Stark, S.M., **Yassa, M.A.**, Stark, C.E.L. (2009) Spatial memory performance in memory impaired and memory intact healthy older adults. *Society for Neuroscience Annual Meeting*.
20. **Yassa, M.A.**, Muftuler, L.T., Stark, C.E.L. (2009) Ultrahigh resolution microstructural diffusion tensor imaging of human hippocampal subfields. *Society for Neuroscience Annual Meeting*.
21. Wu, J., **Yassa, M.A.**, Stark, S.M., Stark, C.E.L. (2009) Evidence for pattern separation signals in the human medial temporal lobe that vary with mnemonic similarity. *Society for Neuroscience Annual Meeting*.

INVITED LECTURES AND PRESENTATIONS

1. **Voxel-Based Morphometry Structural Correlates of Schizotypy**. Medical Psychology Seminar, Johns Hopkins School of Medicine, Baltimore, MD, April 2003.
2. **Functional MRI: Mapping Cognition**. Statistics in Imaging Group, Johns Hopkins Public Health, Baltimore, MD, February 2004.
3. **Voxel-Based Morphometry**. Neuroradiology Seminar, Johns Hopkins School of Medicine, Baltimore, MD, June 2004.
4. **Memory Systems in the Brain**. Biological Psychology Proseminar, Johns Hopkins University, Baltimore, MD, April 2006.
5. **Encoding and Retrieval Processes in the Medial Temporal Lobe**. Psychology Seminar Series, Johns Hopkins University, Baltimore, MD, March 2006.
6. **Psychopathic Personality: Insight into the Criminal Mind**. Foundations of Mind course, Johns Hopkins University, Baltimore, MD, May 2006.
7. **Multiple Recognition-related Signals in the Medial Temporal Lobe**. Cognitive Lunch series, Johns Hopkins University, Baltimore, MD, September 2006.
8. **Introduction to Mental Disorders**. Introduction to Psychology course, Johns Hopkins University, Baltimore, MD, April 2007.
9. **Understanding Dementia: Memory Changes Across the Aging Spectrum**. Psychology Seminar Series, Johns Hopkins University, Baltimore, MD, April 2007.
10. **Hippocampal Memory and the Aging Brain**. Cognitive Lunch series, Johns Hopkins University, Baltimore, MD, November 2007.
11. **Regional Approaches to Studying Memory in the Medial Temporal Lobe**. Neurobiology of Memory Seminar, University of California, Irvine, CA, January 2008.
12. **fMRI of Pattern Separation in Healthy Aging and Mild Cognitive Impairment**. Neuroblitz Graduate Seminar Series, University of California, Irvine, CA, February 2008.
13. **Brain Exploration: Your Functioning Nervous System**. Masuda Middle School, Fountain Valley, CA, March 2008.

14. **Noradrenergic Effects on Computations in Hippocampal Subfields.** Neurobiology of Memory Seminar, University of California, Irvine, CA, March 2008.
15. **Human High-Resolution Microstructural Diffusion Tensor Imaging of the Human Hippocampus.** Center for Neurobiology Learning and memory Spring Research Conference, Irvine, CA, April 2009.
16. **Cognitive Neuroscience of Memory in Aging and Dementia.** Irvine Valley College Annual Research Conference Keynote Research Talk, Irvine, CA, May 2009.
17. **Neurocognitive Aging of the Human Hippocampus.** Doctoral Thesis Advancement Presentation. Neurobiology and Behavior, University of California, Irvine, CA, June 2009.
18. **Academic Careers in Biological Psychology.** Careers in Psychology Class, Irvine Valley College, Irvine, CA, November 2009.
19. **The Cognitive Neuroscience of Learning and Memory: From the Laboratory to the Classroom.** National Science Foundation GK-12 Program Workshop, University of California, Irvine, CA, December 2009.

RESEARCH ACTIVITIES

Currently in Progress

“Encoding and retrieval dynamics in the medial temporal lobe”

DGE-0707427 7/1/07 – 6/30/10

NSF (Graduate Research Fellowship awarded to M. Yassa with C. Stark as faculty sponsor)

The goal of this project is to investigate encoding and retrieval-related signals in the medial temporal lobe using fMRI and scene recognition memory.

“High-resolution Structural and Functional Brain Imaging of the Medial Temporal Lobe in Neurocognitive Aging”

R01 RFA-AG-09-010

NIA (PI: C. Stark, Role: Key Personnel)

The overarching goal of the proposed project is to characterize behavioral and neural (structural and functional) profiles of neurocognitive aging in the context of the medial temporal lobe (MTL) memory system. The project is designed to test key predictions from rodent models that suggest that age-related changes in structure, function, and connectivity among structures in the MTL underlie behavioral deficits in memory.

“Functional Imaging of Hippocampal Subfields in Healthy Aging”

R03 AG032015-01 9/15/08 – 8/31/10

NIA (PI: C. Stark, Role: Key Personnel)

This project aims to use high-resolution fMRI to investigate BOLD signals associated with pattern separation in hippocampal subregions in young and elderly individuals, to identify the neural basis of age-related changes in memory abilities.

Under Review

“Understanding changes in structure, connectivity, and function of the hippocampus in age-related memory loss and MCI”

P50 RFA-AG-09-001

NIA (PI: C. Stark, Role: Key Personnel)

The goal of this project is to use novel behavioral and cutting-edge imaging techniques to

relate changes in memory performance to changes in the structure, connectivity, and functional properties of the hippocampus that are associated with healthy aging and with MCI. It will focus on using advanced imaging methods for early detection and isolation of preclinical markers for conversion to MCI and AD.

Completed Work

“Functional MRI of the Amygdala and Bed Nucleus of the Stria Terminalis in Patients with Generalized Anxiety Disorder”

M01-RR00052 02/01/06 – 01/31/07

National Center for Research Resources (PI: R. Hoehn-Saric, Role: Staff)

This project aimed to use two functional MRI tasks to compare activity in the amygdala and the bed nucleus of the stria terminalis during chronic and acute anxiety conditions and to develop the imaging methodology for assessing changes in activity in the BNST region.

“High Resolution fMRI and Landmark Detection in the MTL of Patients with MCI”

P50 AG05146 09/01/05 – 08/31/06

NIA (subaward to PI: C. Stark, Role: Staff)

This project aimed to use high-resolution fMRI to investigate activity changes in the hippocampus associated with mild cognitive impairment and to develop tools for automated hippocampal image registration.

“Functional Imaging of Hippocampal Subfields in Mild Cognitive Impairment”

P50 AG016573-09 4/1/08 - 3/31/09

NIA – ADRC (sub-award to PI: C. Stark, Role: Key Personnel)

This project extends the research proposed in the previously awarded R03 grant into an MCI population. The project aims to use high-resolution fMRI to investigate BOLD signals associated with pattern separation in hippocampal subregions in MCI patients and healthy controls.

“Brain Imaging and Cognition in Individuals At Risk for Alzheimer’s Disease”

R01 AG016324 08/01/03 – 07/30/05

NIA (PI: S. Bassett, Role: Staff)

The goal of this project was to study cognition and neuroimaging longitudinally in a sample of adults who are at increased risk for development of AD and contrast these findings with those of matched control group.

“Functional MRI of Formal Thought Disorder in Schizophrenia Patients”

R01MH043775 06/01/02 – 05/30/04

NIMH (subaward to PI: P. Rivkin, Role: Key Personnel)

The goal of this project was to use functional MRI to assess performance and cerebral activation in schizophrenic patients engaging in a feature-binding task, which requires making linguistic associations between objects.