

Ariel Beth Brown

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Education:

Boston University School of Medicine, Division of Graduate Medical Sciences, **Ph.D Candidate in Behavioral Neuroscience (Advisor: Marlene Oscar-Berman, Ph.D.)** Dissertation title: *Effect of Dopamine Transporter Gene (DAT1) on Brain Function in ADHD.*
Expected defense date, May 1 2009.

Skidmore College, Saratoga Springs, NY; Bachelor of Arts in Psychology, 2001

Research Positions:

2005 – current Predoctoral Research Associate, Functional Neuroimaging Program in Pediatric Psychopharmacology and Adult ADHD (**PI: Joseph Biederman, M.D.**), Department of Psychiatry, Massachusetts General Hospital, Boston, MA

2005 – current fMRI Data Analyst and Laboratory Manager, Laboratory of Developmental Neuropsychiatry and Clinical Neuroscience (**PI: Larry Seidman, Ph.D.**), Department of Psychiatry, Massachusetts General Hospital, Boston, MA

2002 – 2005 Psychology Technician and Laboratory Manager, Parkinson's Disease Unit (**PI: Patrick McNamara, Ph.D.**), Department of Neurology, Boston VA Medical Center

2001 – 2002 Research Assistant, Memory Disorders Research Center, Boston University School of Medicine (**PI: David Schnyer, Ph.D.**)

Awards and Honors:

2008, June: Henry I. Russek Student Achievement Award. \$1000 personal award for excellent Dissertation abstract "Effect of Dopamine Transporter Gene on Dorsal Anterior Cingulate Function in ADHD".

2008, June: Faculty nominated Participant in the AAAS/Science Program for Excellence in Science.

2008, May: \$500 travel award, Division of Graduate Medical Sciences, Boston University School of Medicine

2008, March: Graduate Student Research Fellowship, Division of Graduate Medical Sciences, Boston University School of Medicine. \$4000 award to support dissertation research. Title "Effect of Dopamine Transporter Gene Variation on Brain Function in ADHD"

2007, June: \$500 travel award, Division of Graduate Medical Sciences, Boston University School of Medicine

Submitted Papers:

Brown, A. B., Seidman, L., Valera, E.M. et al. Effect of Dopamine Transporter Gene (DAT1) on Dorsal Anterior Cingulate Function in ADHD.

Valera, E.M., **Brown, A. B.** et al. Sex differences in the neuroanatomy of working memory in Adult ADHD.

Makris, N., Seidman, L., Valera, EM., Monuteaux, MC., Kaiser, J., Hodge, SM., **Brown, A.**, et al. Prefrontal-Limbic Deficiencies in Adults with Attention-Deficit/Hyperactivity Disorder Comorbid with Bipolar Disorder: A Cortical Thickness MRI analysis.

Publications:

Makris, N., Seidman, L., Valera, E., Monuteaux, M., Kennedy, D. N., Caviness, V.S., Crum, K., **Brown, A.** et al. (in press) Anterior Cingulate Volumetric Alterations in Treatment-Naïve Adults with ADHD: A Pilot Study. Journal of Attention Disorders.

Monuteaux, M., Seidman, L. Faraone, S. V., Makris, N., Spencer, T. Valera, E., **Brown, A.** et al., (in press). A preliminary study of dopamine D4 receptor genotype and structural brain alterations in adults with ADHD. Am J Med Gen B: Neuropsychiatric Genetics.

Valera, E. M., **Brown, A. B.** & Seidman, L.S. (in press). Neuropsychology of ADHD and other Childhood Disorders. Neuropsychology of Mental Disorders. Editor: Stephen Wood.

Makris N. M., Buka S. L., Biederman J., Papadimitriou G. M., Hodge S. M., Valera E. M., **Brown A. B.**, et al. (2008). Attention and executive Systems abnormalities in adults with childhood ADHD: A DT-MRI study of connections. Cerebral Cortex,18, 1210-1220.

Hodgins, H., **Brown, A.** & Carver, B. (2007). Autonomy and control motivation and self-esteem. Self and Identity, 6(2-3): 189-208.

McNamara, P., Durso, R., **Brown, A.**, & Harris, E. (2006). The chemistry of religiosity: Evidence from patients with Parkinson's disease. Where God and Science Meet: How the Brain and Evolutionary Studies Alter our Understanding of Religion, Volume II: Neurology of Religion. Chapter 1, Editor: Patrick McNamara.

McNamara, P., Durso, R. & **Brown, A.** (2006). Religiosity in patients with Parkinson's Disease. Neuropsychiatric Disease and Treatment, 2(3), 341-348.

Wegelin, J., McNamara, P., & **Brown, A.** (2005). Correlates of excessive daytime sleepiness in Parkinson's disease. Parkinsonism and Related Disorders, 11(7), 441-448.

McNamara, P., **Brown, A.**, McLaren, D., Smith, D., & Stickgold, R. (2005). A Jekyll and Hyde Within: Opposing social interactions in REM versus NREM sleep mentation. Psychological Science, 16(2), 130-136.

McNamara, P., McGeeney, B., **Brown, A.**, Benson, E. & Albert, M. L. (2005). Modes of Remembering in Chronic Pain: Relation to Current Pain. Journal of Nervous and Mental Disease, 193 (1), 53-57.

McNamara, P., Durso, R. & **Brown, A.** (2003). Relation of 'sense of self' to executive function in Parkinson's disease. Cognitive and Behavioral Neurology, 16(3), 139-148.

McNamara, P., Durso, R., **Brown, A.**, & Lynch, A. (2003). Counterfactual cognitive deficit in persons with Parkinson's disease. Journal of Neurology, Neurosurgery, and Psychiatry, 74, 1065-1070.

Selected Invited Talks

September, 2008: "Genetic Imaging as a Tool for Investigating Pathophysiological Heterogeneity in Psychiatric Disorders: Evidence from ADHD" Psychiatric Genetics Program in Mood and Anxiety Disorders, Massachusetts General Hospital

May, 2008: "Effect of Dopamine Transporter Gene (DAT1) on Dorsal Anterior Cingulate Function in ADHD". Student Achievement Day, Boston University School of Medicine

September, 2007: "The Prefrontal Cortex in Cognition". Neurology Seminar for Psychiatry Residents, Boston University School of Medicine

Selected Conference Presentations

Brown, A. Biederman, J et al. (May, 2008). Effect of Dopamine Transporter Gene (DAT1) on Dorsal Anterior Cingulate Cortex (dACC) activation in ADHD. Poster presented at the 63rd annual Scientific Convention and Meeting of the Society of Biological Psychiatry, Washington, DC.

Brown, A. (March, 2008). Thinning of both attentional and affective cortical networks in comorbid ADHD and Bipolar Disorder. Poster presented at the 2008 Pediatric Bipolar Conference, Cambridge, MA.

Brown, A., Valera, E., Biederman, J. et al. (June, 2007). "fMRI Correlates of Subtype Symptoms in Adults with ADHD on a Verbal Working Memory Task." Poster presented at the 13th annual meeting of the Organization for Human Brain mapping, Chicago, IL.

Brown, A., McNamara, P. & Durso, R. (February, 2006). "Awareness of cognitive deficits in patients with Parkinson's Disease" Poster presented at the 33rd annual meeting of the International Neuropsychological Society, Boston, MA.

Brown, A., McNamara, P., Chapman, G., Durso, R. (February, 2004). "Verbal perseverations in patients with Parkinson's disease: Relation to deficits in cognitive planning." Poster presented at the 32nd annual meeting of the International Neuropsychological Society, Baltimore, Maryland.

Activities:

Student Representative, Graduate Medical Sciences Student Organization

- » Bring comments/issues of the students of department to the faculty and administration
- » Work with group to implement changes in administrative policy

Moderator, Boston-Neurotalks Listserv

- » Communication with Boston Neuroscience and Cognitive Science community to organize and implement daily listserv (serving 600 people) announcing relevant lectures and talks in the area.

Skidmore College Alumni Mentor

- » Speaker on annual Alumni panel advising students on careers in the sciences
- » Personal contact for graduating psychology majors interested in research

Specialized Computer and Analysis Skills

- » fMRI data analysis using SPM software
- » Linux Shell and Matlab programming
- » Statistical analysis in SPSS and SAS

Specialized Training:

fMRI Visiting Fellowship: A 5-Day Intensive (Martinos Center for Biomedical Imaging, Boston, MA, 2006)

MRI Scanning Certification (Martinos Center for Biomedical Imaging, Boston, MA, 2004)

2-day training for Cambridge Neuropsychological Test Automated Battery (CANTAB; Cambridge, UK, 2002)

References:

Larry Seidman, Ph.D.

Joseph Biederman, M.D.

Marlene Oscar Berman, Ph.D.