Kara Abad Dyckman, Ph.D.

Office: University of Georgia Department of Psychology Psychology Building, Rm 403 Athens, GA 30602 kdyckman@uga.edu

POSITIONS HELD

08/10 - present	Temporary Assistant Professor Department of Psychology University of Georgia, Athens, GA
09/07 - 07/10	Postdoctoral Research Fellow Psychiatric Neuroimaging, Massachusetts General Hospital Advisor: Dara Manoach, Ph.D.

EDUCATION

05/05-08/07	Doctor of Philosophy University of Georgia, Athens, Georgia Department of Psychology, Cognitive/Experimental Program FMRI/EEG study of changes in behavior and brain activity during and after saccade practice Advisors: Jennifer E. McDowell, Ph.D., Brett A. Clementz, Ph.D.
08/02-05/05	Master of Science University of Georgia, Athens, Georgia Department of Psychology, Cognitive/Experimental Program Neural plasticity of saccade-related brain regions following repeated exposure to eye movement tasks Advisor: Jennifer E. McDowell, Ph.D.
08/92-05/96	Bachelor of Arts Bucknell University, Lewisburg, Pennsylvania Major: Psychology Major GPA: 3.7
07/94-11/94	Study Abroad Program University of Queensland, Brisbane, Australia

GRANT SUPPORT

08/08-07/10 NIMH - Ruth L. Kirschstein National Research Service Award (NRSA) – Individual Postdoctoral Fellowship

HONORS AND AWARDS

08/06-05/07	Achievement Rewards for College Scientists (ARCS) Foundation Scholar - \$3,000 stipend per semester
06/06	Acceptance to 2006 John Merck Fund Summer Institute on the Biology of

	Developmental Disabilities - Funding for tuition, meals, and housing, plus a travel stipend of \$200
08/05-06/06	Paul D. Coverdell Neuroimaging Program Franklin Foundation Travel Award (\$2,000)
08/04-06/05	Paul D. Coverdell Neuroimaging Program Franklin Foundation Scholar – Tuition and stipend for 2004-2005 academic year plus \$5,000 for fMRI research and \$1,000 for travel.
08/04-05/05	American Psychological Foundation Graduate Research Scholarship (APF/COGDOP) – \$1,000 for research
08/03-05/04 08/05-05/07	University of Georgia Department of Psychology Research Assistantship – Tuition and stipend for academic year.

PROFESSIONAL AFFILIATIONS

Cognitive Neuroscience Society, Member Society for Neuroscience, Member Neuroscience Student Association, Vice-President (2004-2005) Psi Chi National Honor Society, Graduate Secretary (2003-2004)

Reviewer for: Biological Psychiatry, Journal of Abnormal Psychology, Neuroscience and Biobehavioral Reviews, Progress in Neuro-Psychopharmacology & Biological Psychiatry

TEACHING EXPERIENCE

08/10 - present	Cognitive Psychology, Undergraduate and Graduate University of Georgia, Department of Psychology
08/10 - 12/10	Lab in Brain Imaging University of Georgia, Department of Psychology
08/06 – 12/06	Graduate Teaching Assistant – Sensation and Perception University of Georgia, Department of Psychology Athens, GA Professor: James Brown, Ph.D.
08/03 – 12/03	Graduate Teaching Assistant – Cognitive Psychology University of Georgia, Department of Psychology Athens, GA Professor: Richard L. Marsh, Ph.D.
05/99 – 03/02	Instructor, SAT and GRE preparation courses Kaplan Test Prep San Diego, CA

STUDENT SUPERVISION

06/09 - 07/09	Elizabeth Wang, Research Science Institute, Massachusetts Institute of Technology
06/08 - 07/08	Divya Bajekal, Research Science Institute, Massachusetts Institute of Technology
08/05 - 05/06	Emily Leonard Parks, Undergraduate Research Assistant, University of Georgia
08/05 - 05/06	Noah Duncan, Undergraduate Research Assistant, University of Georgia

PUBLICATIONS

- **Dyckman, K. A.**, Lee, A. K. C., Agam, Y., Goff, D. C., Barton, J. J. S., & Manoach, D. S. (Under Review). Abnormally persistent fMRI activation in schizophrenia: a neural correlate of perseveration.
- Roffman J. L., Brohawn D. G., Friedman J. S., Dyckman K. A., Thakkar K. N., Agam Y., Vangel, M. G., Goff D. C., Manoach D.S. (2011). MTHFR 677C>T effects on anterior cingulate structure and function during response monitoring in schizophrenia: a preliminary study. *Brain Imaging Behav*, *5*, 65-75.
- Hamm, J. P., Dyckman, K. A., Ethridge, L. E., McDowell, J. E., Clementz, B. A. (2010). Preparatory activations across a distributed cortical network determine production of express saccades in humans. *Journal of Neuroscience*, *30*, 7350-7.
- Lee, A. K. C., Hämäläinen, M. S., Dyckman, K. A., Barton, J. J. S., Manoach, D. S. (2011). Saccadic preparation in the frontal eye field is modulated by distinct trial history effects as revealed by magnetoencephalography. *Cerebral Cortex*, 21, 245-53
- Tu, P, Buckner, R. L., Zollei, L., Dyckman, K. A., Goff, D. C. & Manoach, D. S. (2010). Reduced functional connectivity in a right-hemisphere network for volitional ocular motor control in schizophrenia. *Brain*, 133, 625-37
- McDowell, J. E., Dyckman, K. A., Austin, B. P., & Clementz, B. A. (2008). Neurophysiology and neuroanatomy of reflexive and volitional saccades: Evidence from studies of humans. *Brain & Cognition – Special Issue: Eye Movements in Psychiatric Research*, 68, 255-270.
- Camchong, J., Dyckman, K. A., Austin, B. P., Clementz, B. A., & McDowell, J. E. (2008). Common neural circuitry supporting volitional saccades and its disruption in schizophrenia patients and relatives. *Biological Psychiatry*, 64, 1042-1050.
- **Dyckman, K. A.**, Camchong, J., Clementz, B. A., & McDowell, J. E. (2007). An effect of context on saccade-related behavior and brain activity. *NeuroImage, 36*, 774-784.
- Camchong, J., Dyckman, K. A., Chapman, C. E., Yanasak, N. E., & McDowell, J. E. (2006). Basal ganglia-thalamocortical circuitry disruptions in schizophrenia during delayed response tasks. *Biological Psychiatry*, 60, 235-241.
- **Dyckman, K. A.**, & McDowell, J. E. (2005). Behavioral plasticity of antisaccade performance following daily practice. *Experimental Brain Research, 162,* 63-69.
- McDowell, J. E., Kissler, J. M., Berg, P., Dyckman, K. A., Gao, Y., Rockstroh, B., & Clementz, B. A. (2005). Electroencephalography/magnetoencephalography study of cortical activities preceding prosaccades and antisaccades. *NeuroReport*, *16*, 663-668.
- Wade, T. J., Dyckman, K. A., & Cooper, M. (2004). Invisible men: Evolutionary theory and attractiveness and personality evaluations of 10 African American male facial shapes. *Journal of Black Psychology*, 30, 477-488.

PRESENTATIONS

- Manoach, D. S., Dyckman, K. A., Agam, Y., Isom, M., Joseph, R. M., & Goff, D. C. Distinct neural signatures of response monitoring deficits in schizophrenia and autism: a neurocognitive endophenotype? Slide presentation at the International Congress on Schizophrenia Research, San Diego, CA, March 28-April 1, 2009.
- Austin, B. P., Dyckman, K. A., Amlung, M. T., Li, Q., Clementz, B. A., & McDowell, J. E. Practiceinduced Changes in Neural Circuitries Supporting Saccade Performance in Schizophrenia: an FMRI Study. Poster to be presented at the International Congress on Schizophrenia Research,

San Diego, CA, March 28-April 1, 2009.

- Moore, M., Austin, B. P., **Dyckman, K. A.**, Li, Q., Amlung, M. T., Meyer, F., Clementz, B. A., & McDowell, J. E. Behavioral Changes Following Daily Practice of Saccade Tasks in Schizophrenia. Poster to be presented at the International Congress on Schizophrenia Research, San Diego, CA, March 28-April 1, 2009.
- **Dyckman, K. A.**, Young, J. C., Goff, D. C., Barton, J. J. S., & Manoach, D.S. Compensatory hyperactivation of frontal eye field supports correct antisaccade performance in schizophrenia. Slide presentation at the Society for Neuroscience conference, Washington, DC, November 15-19, 2008.
- Austin, B. P., Dyckman, K. A., Camchong, J., & McDowell, J. E. The neural substrates of delayed match and non-match saccades: an fMRI investigation. Poster presented at the Society for Psychophysiological Research conference, Savannah, Georgia, October 17-21, 2007.
- **Dyckman, K. A.**, Camchong, J., Clementz, B. A., & McDowell, J. E. An effect of context on saccaderelated behavior and brain activity. Poster presented at the Annual Meeting of Cognitive Neuroscience Society, New York, May 5-7, 2007.
- McDowell, J. E., Camchong, J., **Dyckman, K. A.**, & Austin, B. P. Neural correlates of antisaccade and delayed response task performance in participants with schizophrenia and their biological relatives. Symposium presentation at the Society for Psychophysiological Research conference, Vancouver, British Columbia, November, 2006.
- **Dyckman, K. A.**, McDowell, J. E., Camchong, J., & Yanasak, N. Plasticity of saccade-related brain circuitry following repeated exposure to eye movement tasks. Slide presentation at the Society for Neuroscience conference, Atlanta, Georgia, October, 2006.
- Krusemark, E. A., Dyckman, K. A., Brunell, A. B., Campbell, W. K., Clementz, B. A., & McDowell, J. E. Neural Substrates of Social Rejection and Self Regulation. Poster presented at the conference for the Society for Personality and Social Psychology, Palm Springs, California, January 2006.
- **Dyckman, K. A.,** & McDowell, J. E. Behavioral plasticity of antisaccade performance in young adults following daily practice. Poster presented at the International Congress on Schizophrenia Research, Savannah, Georgia, April 2-6, 2005.
- Camchong, J., **Dyckman, K. A.,** Buckley, P. F., & McDowell, J. E. Neural circuitry activity associated with ocular motor delayed response task performance in normal and schizophrenia subjects. Poster presented at the International Congress on Schizophrenia Research, Savannah, Georgia, April 2-6, 2005.
- **Dyckman, K. A.,** & McDowell, J. E. Behavioral plasticity of antisaccade performance in young adults following daily practice. Paper presented at the 27th Annual Psi Chi Convention, UGA, Athens, Georgia, March, 2004.
- Brahmbhatt, S. B., Brown, R. R., Dyckman, K. A., McDowell, J. E., & Clementz, B. A. Neural correlates of decision-making and response preparation in blocked versus interleaved saccadic tasks. Poster presented at the Society for Psychophysiological Research, Chicago, Illinois, October 29-November 2, 2003.
- McDowell, J. E., Brown, G. G., Tuffy, C., Dyckman, K. A., & Hutton, T. Saccadic performance among healthy young adults and the supporting neural correlates as identified using fMRI. Poster presented at the International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 29-April 2, 2003.
- McDowell, J. E., Kissler, J., **Dyckman, K. A.**, Rockstroh, B., & Clementz, B. A. Timing of specific cortical activities preceding pro- and antisaccades in normal humans. Poster presented at the Annual Meeting of Cognitive Neuroscience Society, New York, March 30-April 1, 2003.

Wade, T. J., **Abad, K. A.**, & Cooper, M. Facial shape and the perception of African Americans. Paper presented at the 107th American Psychological Association Convention, Boston, Massachusetts, August 20-24, 1999.