Benjamin P. Austin

Curriculum Vitae

The Bio-Imaging Research Center &
The Cognitive and Clinical Neuroscience Laboratory
University of Georgia

Contact Information:
Department of Psychology
The University of Georgia
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EDUCATION

M.S. (2007)	University of Georgia Cognitive/Experimental Psychology
B.S. (2003)	Vanderbilt University Mechanical Engineering, cum laude

RESEARCH EXPERIENCE

06/08-present J. McDowell, C. Davis, C. Krafft – *A behavioral study investigating exercise-induced changes in antisaccade and flanker performance in overweight children*

12/07-present J. McDowell, F. Meyer, M. Amlung – *An fMRI study on the neural substrates of delayed match and non-match saccades using block and event-related designs*

12/06-present J. McDowell, J. Camchong - *An fMRI study on undergraduates during saccade performance*

12/06-present J. McDowell, K. Dyckman - *An fMRI study investigating practice-based neural plasticity among normal and schizophrenia subjects*

07/06-present J. McDowell, C. Davis - *An fMRI study investigating exercise-induced changes in circuitries supporting antisaccade performance in overweight children*

02/06-07/06 J. McDowell, C. Davis, N. Yanasak - *An fMRI study on the effects of exercise on the neural substrates of antisaccade performance in overweight children*

09/05-12/07 J. McDowell - *An fMRI study on the neural substrates of delayed match and non-match saccades*

09/05-09/06 J. McDowell, K. Dyckman - *An fMRI study on the effect of context on saccade-related behavior and brain activity*

09/05-09/06 J. McDowell, J. Camchong - *An fMRI study on working memory and inhibition in schizophrenics and 1st degree relatives*

09/05-09/06 J. McDowell, K. Dyckman - *An fMRI study on the effect of practice on saccade-related behavior and brain activity*

PUBLICATIONS & MANUSCRIPTS

Austin, B. P. (Manuscript in preparation). The Human Parietal Eye Fields; a Review. *Human Brain Mapping*.

Davis, C. L., Tomporowski, P. D., McDowell, J. E., Austin, B. P., Yanasak, N. E., Allison, J. D., Naglieri, J. A., Miller, P. H. (In Press). Exercise improves executive function and alters neural activation in overweight children; a randomized controlled trial. *Health Psychology*.

McDowell, J. E., Dyckman, K. A., Austin, B. P., Clementz, B. A. (2008). Neurophysiology and neuroanatomy of reflexive and volitional saccades: evidence from human studies. *Brain and Cognition, 68*(3), 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*(12), 1042-1050.

AWARDS & HONORS

05/09 - **The Doctoral Dissertation Completion Award, The University of Georgia**
Winner of prestigious, 1-year assistantship providing full stipend from the Graduate School to devote last year to completing doctoral dissertation

05/09 - **Travel Grant Recipient, The Franklin Foundation Neuroimaging Program**
Recipient of $360 travel grant to attend the conference for the Organization for Human Brain Mapping, San Francisco

02/09 - **The Graduate School Dean's Award, The University of Georgia**
Winner of $1000 award to assist dissertation research and writing

02/09 - **The Outstanding Teaching Assistant Award, The University of Georgia**
Recipient of university-wide award for teaching excellence

02/09 - **Travel Grant Recipient, The University of Georgia Graduate School**
Recipient of $600 travel grant to present research at the meeting for the International Conference on Schizophrenia Research, San Diego

10/08 - **Conference for Southern Graduate Schools 2009 Master's Thesis Award**
Recipient of single nomination for the University of Georgia in the field of Math, Physical Sciences, and Engineering

10/08 - **Travel Grant Recipient, The Franklin Foundation Neuroimaging Program**
Recipient of $600 travel grant to present research at the meeting for the International Conference on Schizophrenia Research, San Diego

06/08 - **Visiting Lab Scholar, The University of California San Diego**
Invited visit to Martin Paulus Laboratory at UCSD to study advanced fMRI data processing techniques using AFNI software

06/08 - **Workshop on Schizophrenia and Related Disorders at The Cold Spring Harbor Laboratory, NY**. *Participant in highly-selective, 10-day workshop and recipient of $1000 award*

10/07 - **Travel Grant Recipient, The University of Georgia Graduate School**
Recipient of $400 travel grant to present research at the meeting for the Society for Psychophysiological Research in Savannah, GA

09/07 - **Travel Grant Recipient, The Franklin Foundation Neuroimaging Program**
Recipient of $150 travel grant to present research at the meeting for the Society for Psychophysiological Research in Savannah, GA

08/07 - **University of Michigan Training Course in fMRI**
Participant in highly-selective, 2-week fMRI course at the University of Michigan, fully-funded by the National Science Foundation

08/05-05/07 - **Graduate School Scholarship, The University of Georgia**
Awarded prestigious, 2-year fellowship providing full stipend by the University of Georgia Graduate School

PROFESSIONAL AFFILIATIONS

06/09-present ***Organization for Human Brain Mapping (OHBM)***
05/09-present ***Graduate Students & Postdocs in Science (GSPS), University of Georgia***
09/08-present ***International Congress on Schizophrenia Research (ICOSR)***

07/07-present ***Society for Psychophysiological Research (SPR)***
08/06-present ***Bio-Imaging Research Center (BIRC), University of Georgia***
05/06-present ***Society for Neuroscience (SfN)***

TEACHING EXPERIENCE

01/09-05/09 **Teaching Assistant**, PSYC 4140 – *Cognitive Neuroscience*
01/08-05/08 **Lab Instructor**, PSYC 4100 – *Cognitive Psychology*
06/07-08/07 **Lab Instructor**, PSYC 2990 – *Research Analysis in Psychology*

PRESENTATIONS

07/09 - **1st Interdisciplinary Scientific Research Conference, UGA** – Athens, GA (Poster)
Austin, B.P., Dyckman, K.A., Amlung, M.T., Li, Q., Clementz, B.A., & McDowell, J.E. *Practice-induced Changes in Neural Circuitries Supporting Saccade Performance in Schizophrenia: an fMRI Study*.

07/09 - **1st Interdisciplinary Scientific Research Conference, UGA** – Athens, GA (Poster)
Krafft, C., Davis, C.L., Austin, B.P., Tomporowski, P.D., Miller, P., & McDowell, J.E. *The Effects of Exercise on Executive Control in Overweight Children.*

04/09 - **GA/SC Neuroscience Consortium Meeting**– Athens, GA (Poster)
Krafft, C., Davis, C.L., Austin, B.P., Tomporowski, P.D., Miller, P., & McDowell, J.E. *The Effects of Exercise on Executive Control in Overweight Children*.

04/09 - **GA/SC Neuroscience Consortium Meeting**– Athens, GA (Poster)
Amlung, M.T., Li, Q., Austin, B.P., Camchong, J., & McDowell, J.E. *Neural Correlates of Poor Saccadic Control in Undergraduates; an fMRI Study*.

03/09 - **International Conference on Schizophrenia Research** – San Diego, CA (Poster)
Austin, B.P., Dyckman, K.A., Amlung, M.T., Li, Q., Clementz, B.A., & McDowell, J.E. *Practice-induced Changes in Neural Circuitries Supporting Saccade Performance in Schizophrenia: an fMRI Study*.

03/09 - **International Conference on Schizophrenia Research** – San Diego, CA (Poster)
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.*

03/09 - **International Conference on Schizophrenia Research** – San Diego, CA (Poster)
Amlung, M.T., Li, Q., Austin, B.P., Camchong, J., & McDowell, J.E. *Behavioral and Neural Correlates of Poor Saccadic Control in Undergraduates.*

08/08 - **Network of Greater Georgia Institutions of Neuroimaging and Statistics Workshop**– Athens, GA (Lecture) Amlung, M.T., Li., Q., Austin, B.P., Camchong, J., & McDowell, J.E. *Neural Correlates of Poor Saccadic Control in Undergraduates.*

08/08 - **American Psychological Association Convention** – Boston, MA (Symposium Lecture) McDowell, J.E., Austin, B.P., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Tkacz, J., Miller, P.H., & Davis, C.L. *Changes in Brain Activation Following Exercise Training in Overweight Children.*

11/07 - **Society for Neuroscience Conference –** San Diego, CA (Poster) Austin, B.P., McDowell, J.E., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Creech, C., Tkacz, J., Miller, P.H., & Davis, C.L. *Exercise-induced changes in circuitries supporting antisaccade performance in overweight children; an fMRI study.*

10/07 - **Society for Psychophysiological Research Conference -** Savannah, GA (Poster) Austin, B.P., Dyckman, K.A., Camchong, J., & McDowell, J.E. *The neural substrates of delayed match and non-match saccades; an fMRI investigation.*

11/06 - **Society for Psychophysiological Research Conference –** Vancouver, British Columbia (Symposium Lecture) 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.*

10/06 - **Biomedical & Health Sciences Institute Conference -** Athens, GA (Poster) Austin, B.P., McDowell, J.E., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Creech, C., Tkacz, J., Miller, P.H., & Davis, C.L. *Exercise effects on the neural substrates of antisaccade performance in overweight children; an fMRI study.*

09/06 - **Society for Neuroscience Conference -** Atlanta, GA (Poster) Austin, B.P., McDowell, J.E., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Creech, C., Tkacz, J., Miller, P.H., & Davis, C.L. *Exercise effects on the neural substrates of antisaccade performance in overweight children; an fMRI study.*

PUBLISHED ABSTRACTS

Austin, B.P., Dyckman, K.A., Amlung, M.T., Li, Q., Clementz, B.A., & McDowell, J.E. (2009). *Schizophr Bull, 35*(1), 178. Practice-induced Changes in Neural Circuitries Supporting Saccade Performance in Schizophrenia: an fMRI Study.

Moore, M., Austin, B.P., Dyckman, K.A., Li, Q., Amlung, M.T., Meyer, F., Clementz, B.A., & McDowell, J.E. (2009). *Schizophr Bull*, *35*(1), 62. Behavioral Changes Following Daily Practice of Saccade Tasks in Schizophrenia.

Amlung, M.T., Li, Q., Austin, B.P., Camchong, J., & McDowell, J.E. (2009). *Schizophr Bull*, *35*(1), 193. Behavioral and Neural Correlates of Poor Saccadic Control in Undergraduates.

Austin, B.P., McDowell, J.E., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Creech, C., Tkacz, J., Miller, P.H., & Davis, C.L. (2007). *Society for Neuroscience Public Education and Communication Committee Press Book.* Exercise-induced changes in circuitries supporting antisaccade performance in overweight children; an fMRI study.

***This abstract was among the top 5% chosen from a pool of over 16,000 submissions for press book publication**

Austin, B.P., McDowell, J.E., Allison, J., Yanasak, N.E., Camchong, J., Tomporowski, P.D., Creech, C., Tkacz, J., Miller, P.H., & Davis, C.L. (2006). *Society for Neuroscience Public Education and Communication Committee Press Book. Exercise effects on the neural substrates of antisaccade performance in overweight children; an fMRI study.*

***This abstract was among the top 5% chosen from a pool of over 14,000 submissions for press book publication**

FMRI EXPERIENCE

08/07-present - **MRI Scanner Operator (185+ hours)**
Bio-Imaging Research Center, The University of Georgia

08/05-present - **MRI Researcher (275+ hours)**
Bio-Imaging Research Center, The University of Georgia
Department of Radiology, Medical College of Georgia
Athens Orthopedic Clinic MRI Center, Athens, Georgia