**Brooke Sandra Jackson**

Clinical and Cognitive Neuroscience Laboratory **Email:** b.jackson@uga.edu

University of Georgia ✴ Psychology Department **Cell Phone:** 561-847-0040

**EDUCATION**

2016 – Present Ph.D. Brain and Behavior Sciences *(In Progress)* – Psychology

University of Georgia, Athens, GA

* Advisor: Dr. Jennifer McDowell

2011-2015 *B.S., cum laude* - Psychology

University of Florida, Gainesville, FL

* Research Advisor: Dr. Lori Knackstedt

**RESEARCH EXPERIENCE**

2016 to Present **University of Georgia -** *Cognitive and Clinical Neuroscience Laboratory*

Current research focuses on saccade eye-movements, MRI, and EEG measures to examine the relationship between cognitive measures, structural measures, and psychosis.

2014 to 2016  **University of Florida -** *Addiction Research & Education Laboratory*

Current research focuses on mechanisms underlying cocaine relapse and consequent prevention of relapse using rodent-models, performing self-administration, microdialysis, HPLC, and immunohistochemistry

✴ *Projects examined PTSD, reversal-learning maze,*

*CFOS immunohistochemistry, microinjections of GLT-1 & xCT, & an AAV his-tag*.

**AREAS OF EXPERIENCE**

**Neuroimaging:** Proficient with3.0T GE MRI scanner, EyeLink eye-tracking

equipment inside a 3.0T MRI scanner using mirror box and infrared cameras.

**Programming:** Analysis of Functional NeuroImages (AFNI), MATLAB, SSH

**Cognition:** Trained to administer Brief Assessment of Cognition in

Schizophrenia (BACS), Penn Conditional Exclusion Test (PCET), Stop Signal Task (SST), Dynamic Affect Recognition Evaluation (DARE), Spatial Capacity Delayed Response Test (SCAP), Wide Range Achievement Test (WRAT), Spatial Span Test

**Computer:** Proficient in use of Microsoft applications including Windows XP,

2000, Office. Proficient in Med-PC, GraphPad, ImageJ, SPSS, SAS, EyeLink software, and Noldus Ethovison XT for data analysis and plotting

**Neurochemistry:** Analysis and interpretation of Western Blots, several

immunohistochemistry procedures, *in vivo* microdialysis, some

knowledge of HPLC, proficient with pipetting, staining, and mixing solutions

**Behavioral Testing:** T-Maze, EPM (elevated plus maze), ASR (acoustic

startle response), food restriction, weight maintenance, TMT exposure chambers for PTSD (predator scent stress exposure), self administration of drugs

**Histology:**  Cryostat brain slicing, Vibratome brain slicing, tissue

transfers/mounting to slides and slide coverslipping

**Animal Handling:** Rat handling, perform subcutaneous, intraperitoneal, and micro

injections

**Surgical:** Knowledgeable in rodent survival surgeries such as cannula

implantation for microdialysis (stereotaxic surgery), knowledge of pre-op and post-op procedures for rodents

**POSTER PRESENTATIONS**

Gordon, M.A., Jackson, B. S., LaCrosse, A., & Knackstedt, L. (2016). Reversal Learning

Is Not Protective Against Cocaine Relapse. Center for Addiction Research and

Education. University of Florida, FL. April 2016.

LaCrosse A.L., Gordon M.A., Jackson B.S., & Knackstedt L.A. (2015).

Antisense-mediated downregulation of xCT reduces basal glutamate in the NA and alters post-synaptic AMPA receptor subunit expression. Society for Neuroscience. Chicago, IL. October 2015.

**PUBLICATIONS**

Stennett, B. Jackson, B.S.,  Knackstedt, L.K. (Under revision). CFOS activation in the

Nucleus Accumbens

LaCrosse, A. L. & Jackson, B. S. (*In-Press)*. Antipsychotic Medications. *SAGE*

*Encyclopedia of Abnormal and Clinical Psychology.*

**TEACHING EXPERIENCE**

 Teaching Assistantship - Elementary Psychology ✴ University of Georgia

**RELEVANT COURSEWORK**

Neurochemistry/Neuropharmacology - PSB-4434

Neurobiology of Drug Addiction - PSB-4934

Abnormal Psychology - CLP-3144

Developmental Psychology - DEP-3053

Cognitive Psychology - EXP-3604

Physiological Psychology - PSB-3002

Psychology of Personality - PPE-3003

Psychology Lab Methods - PSY-3213L

Eating Disorders - CLP-4110

Comparative Psychology - CBH-3003

Language Breakdown in the Brain - SPA-2109

General Biology 1 & Lab - BSC-2010&L

Statistics 1 & 2 with Lab - STA2023, STA-3024

General Chemistry 1 & 2 with Lab - CHM-2045&L, CHM-2046&L

**SERVICE & HONORS**

2013 – Present Delta Epsilon Iota Academic Honor Society

2015 – 2016 Big Brothers Big Sisters Tutor

2014 – 2016   American Sign Language Tutor

2011 – 2015             Dean’s List

2012 - 2014 Saint Francis House Volunteer

2010 - 2011 Wellington High School Math Tutor

2009 & 2010           Christian Cross Ministries Home Restoration Volunteer