

Sarah Marie Lyle, M.S.

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Current Title and Affiliation

Ph. D. Student and Graduate School Research Assistant
BBS Representative of the Graduate Student Advisory Board
PEDA President

University of Georgia, Athens Georgia

Behavior and Brain Science Program

- Advisor: Dr. Katherine Ehrlich

Education

Masters of Science in Experimental Psychology

Nova Southeastern University, Ft. Lauderdale, Florida

May 2017

- Thesis: Examining the U-Shaped Curve of Dopamine's Effects on Neurobehavioral Task Performance: The Interaction Between Acute Stress and the COMT Gene
- Advisor: Dr. Jaime Tartar

Bachelor of Arts in Psychology

Ohio Northern University, Ada, Ohio

May 2013

- Advisor: Dr. Phillip Zoladz

Research Interests

Mechanisms & Consequences of Acute, Chronic, and Early Life Stress

Moderating Individual Differences

Social Determinants of Health

Technical Expertise

Molecular Techniques: DNA Isolation, PCR, Genotyping, Immunostaining, and Immunoassay (ELISA, EIA)

Statistical Packages: SPSS, R

Experimental Protocols: Cold Pressor Test (CPT), Trier Social Stress Test for Groups (TSST-G)

Psychological Testing: Life Stress Interview; Trained to administer and score various neuropsychological tests (e.g. STAI, CES-D, PTSD Scale, PSS)

I-Pad Based Testing: Joggle Neuropsychological Research Platform, NIH Toolbox for neurological and behavioral function

Other: Licensed Phlebotomist

Peer-Reviewed Journal Publications

- Hill, L. D., Lorenzetti, M., **Lyle, S. M.**, Fins, A. I., Tartar, A., & Tartar, J. L. (2017). COMT Val158Met Polymorphism Associates with affect and cortisol levels in women. *Brain and Behavior*, 1-8.
- Zoladz, P. R., Kalchik, A. E., Hoffman, M. M., Aufdenkampe, R. L., **Lyle, S. M.**, Peters, D. M., Brown, C. M., Cadle, C. E., Scharf, A. R., Dailey, A. M., Wolters, N. E., Talbot, J. N., & Rorabaugh, B. R. (2014). ADRA2B deletion variant selectively predicts stress-induced enhancement of long-term memory in females. *Psychoneuroendocrinology*, 48, 111-122.

- Zoladz, P. R., Warnecke, A. J., Woelke, S. A., Burke, H. M., Frigo, R. M., Pisansky, J. M., **Lyle, S. M.**, Talbot, J. N. (2013). Pre-learning stress that is temporally removed from acquisition exerts sex-specific effects on long-term memory. *Neurobiology of Learning and Memory*, 100, 77-87.

Book Chapters

- Zoladz, P. R., Kalchik, A. E., Cadle, C. E., & **Lyle, S. M.** (2014). Amygdala-induced modulation of cognitive brain structures underlies stress-induced alterations of learning and memory: Importance of stressor timing and sex differences. In A. Costa & E. Villalba (Eds.), *Horizons in Neuroscience Research (Vol. 14) (pp 1-40)*. Hauppauge, NY: Nova Science Publishers.

Publications In Preparation

- **Lyle, S. M.**, Gobin, K., & Tartar, J. L. A novel relationship: COMT allele status predictor of sleep duration. In Preparation.
- **Lyle, S. M.**, Tatin, X. F., & Tartar, J. L. COMT and Serotonin polymorphisms on Joggle cognitive performance in a nonstress condition. In Preparation
- **Lyle, S. M.**, Banks, J., Munoz, J., & Tartar, J. L. The interaction between acute stress and the COMT gene on cognitive functioning. Master's Thesis In Preparation.
- **Lyle, S. M.**, Banks, J., Munoz, J., & Tartar, J. L. Physiological Stress Reactivity, COMT, and Serotonin. In Preparation.

Paper Presentations

- **Lyle, S. M.**, Corallo, K. L., & Ehrlich, K. B. (2019, March). *Adolescent and parent "shift-and-persist" scores are associated with adolescent antibody response to influenza vaccination*. Paper to be presented at the annual meeting of the American Psychosomatic Society, Vancouver, BC.
- Ehrlich, K. B., Corallo, K. L., & **Lyle, S. M.** (2019, March). Parental hostility is associated with children's antibody production following influenza vaccination. In S. Bai and E. Mercado (Chairs), *Studying the impact of the family on children's health through multiple levels of analysis*. Paper to be presented at the biennial meeting of the Society for Research on Child Development, Baltimore, MD.
- Ehrlich, K. B., **Lyle, S. M.**, Lejuez, C., Cassidy, J. (2018, April). Observed hostility and attachment behaviors during mother-adolescent conflict: Links with adolescent social behavior. In M. Martin (Chair), *Increasing specificity in understanding the links between parent-adolescent attachment and adjustment*. Paper presented at the biennial meeting of the Society for Research on Adolescence, Minneapolis, MN.
- Ehrlich, K. B., Miller, G. E., Shalowitz, M., Story, R., Levine, C., Austin, M., Lam, P.H., Corallo, K. L., **Lyle, S. M.**, & Chen, E. (2018, March). *Loneliness in children with asthma: Links with symptoms, family asthma management, and cytokine regulation*. Paper presented at the annual meeting of the American Psychosomatic Society, Louisville, KY.

Poster Presentations

- Corallo, K. L., **Lyle, S. M.**, Murphy, M. L. M., & Ehrlich, K. B. (2019, March). *Early environments, parental overprotection, and susceptibility to the common cold*. To be presented at the annual meeting of the American Psychosomatic Society, Vancouver, BC.
- Ehrlich, K. B., **Lyle, S. M.**, & Corallo, K. L. (2019, March). *Parent and child perceived stress and antibody production following vaccination*. To be presented at the annual meeting of the American Psychosomatic Society, Vancouver, BC.
- Davidson, E., May, R., **Lyle, S. M.**, Tartar, J. L., Lopez, J. V., & Smith, R. P. (2017, April). *Examining the stress-gut microbiome interface in a human population*. Presented at Life Sciences South Florida, Ft. Lauderdale, Florida.
- **Lyle, S. M.**, Tatin, X. F., Hill, L. D., Lorenzetti, M. S., Tartar, A., Tartar, J. L. (2016, November). *The association between the COMT Val158Met polymorphism and psychological and cognitive performance*. Presented at the Forty-

Sixth Annual Meeting for the Society for Neuroscience, San Diego, California. Abstract published in Society for Neuroscience Abstracts, 46.

- Zoladz, P. R., Kalchik, A. E., Cadle, C. E., Peters, D. M., Hoffman, M. M., Aufdenkampe, R. L., **Lyle, S. M.**, Brown, C. M., Scharf, A. R., Dailey, A. M., Wolters, N. E., Talbot, J. N., & Rorabaugh, B. R. (2014, November). *ADRA2B deletion variant selectively predicts stress-induced enhancement of long-term memory in females*. Presented at the Forty-Fourth Annual Meeting of the Society for Neuroscience, Washington, D.C. Abstract published in Society for Neuroscience Abstracts, 44, 644.02.
- **Lyle, S. M.**, Adelman, S., Stripe, S., & Wareham, D., (April, 2011). *Fear Appeals and Social Influence on the Perception of Illegal Adderall Use*. Presented at the Ohio Northern University Student Research Colloquium, Ada, Ohio.

Research Experience

- Graduate School Research Assistant** 2017-Present
- University: University of Georgia
 - Supervisor: Dr. Katherine Ehrlich
 - Focus: Early life stress, development, and physical health (i.e. vaccine response, etc.)
- Graduate Research Assistant** 2015-2017
- University: Nova Southeastern University
 - Supervisor: Dr. Jaime Tartar
 - Focus: Stress on psychological health and cognition (i.e. genetics, physiological response, microbiome)
- Undergraduate Student Research Assistant** 2012-2013
- University: Ohio Northern University
 - Supervisor: Dr. Phillip Zoladz
 - Focus: Stress on emotional memory processing
- Principal Investigator on Class Research Project** 2011
- University: Ohio Northern University
 - Supervisor: Dr. Kristie Payment
 - Focus: Fear appeals and social influence on behavioral change

Teaching/Laboratory Experience

Instructor of Record

- Introduction to Psychology; Duke TIP at Wake Forest University (Summer 2018)
- Research Design in Psychology; University of Georgia (Fall 2018)

Teaching/Laboratory Assistant

- Introduction to Neuroscience; Nova Southeastern University; Dr. James Munoz (Fall 2016 and Spring 2017)
- Research Methods in Behavioral Neuroscience; Nova Southeastern University; Dr. James Munoz (Spring 2016)
- Behavioral Genetics; Nova Southeastern University; Dr. Jaime Tartar (Fall 2015)
- Experimental Psychology; Ohio Northern University; Dr. Phillip Zoladz (Spring 2012)
- Experimental Psychology; Ohio Northern University; Dr. Megan Kraynock (Spring 2013)

Tutoring/Mentoring

- Psychology Tutor; Ohio Northern University; College of Arts and Sciences (Fall 2012 and Spring 2013)
- Americorps Member; City Year Columbus; Livingston Elementary and Mifflin Middle School (2013-2015)

Internship Experience

- ADHD Summer Treatment Program Counselor**, Cleveland Clinic, Cleveland Ohio Summer 2012
- Served as counselor in program designed to help children and families understand and manage ADHD symptoms

- Identified, labeled, and monitored 28 different frequency/interval, positive/negative behaviors during an intensive day treatment program to gather data on the child's progress and recommendations for future treatment
- Observed lead counselors create individualized treatment programs that addressed each child's behavioral, emotional, and learning difficulties

Grants and Funding Secured

- Presidential Faculty Research and Development Grant**, Nova Southeastern University 2016
- Examining the Stress-Gut Microbiome Interface: A Systems Biology Approach
 - Role: Co-I Amount: \$14,970.00
- PANSGA Professional Development Grant**, Nova Southeastern University 2016
- Neuroscience 2016
 - Role: PI Amount: \$1,000.00

Invited Lectures and Presentations

- Stress and Adaptive Immunity – A mini lecture (Fall 2018). Presented in the Graduate Research Series at University of Georgia, Athens GA.
- Study Tips: How Cognitive Psychology Should Inform Your Habits (Fall 2018). Presented in First Year Odyssey at University of Georgia, Athens GA.
- The association between the COMT Val158Met polymorphism and emotion processing and cognitive performance (Fall 2016). Presented in the Graduate Research Series at Nova Southeastern University, Ft. Lauderdale Florida.
- Acute Stress, COMT, and Cognitive Performance (Spring 2016). Presented in the Graduate Research Series at Nova Southeastern University, Ft. Lauderdale Florida.
- Brain Control of Movement: 2-part series (Fall 2015). Presented in Introduction to Neuroscience at Nova Southeastern University, Ft. Lauderdale Florida.
- The Vision and Auditory Pathways – A mini lecture (Spring 2015). Presented in Introduction to Neuroscience at Nova Southeastern University, Ft. Lauderdale Florida.

Professional Affiliations

American Psychosomatic Society
 Society for Research on Adolescents
 Society for Neuroscience
 American Psychological Association
 Psi Chi

Honors, Awards, Scholarships, and Fellowships

- Graduate School Research Assistantship*; University of Georgia 2017-present
- The Gilbert H. Berken Endowed Scholarship*; Nova Southeastern University 2017
- The Priscilla Tyson Leadership Award*; City Year Columbus 2015
- Certificate of Honor and Recognition*; Columbus City Council 2015
- Segal Americorps Education Award*; Americorps 2014 & 2015
- Outstanding Psychology Student*; Ohio Northern University 2012
- Dean's List*; Ohio Northern University 2012 & 2013

Professional Trainings/Workshops Attended

- The Neurosequential Model in Education*; Dr. B. D. Perry's Child Trauma Academy; Livingston Elementary Fall 2014
- Cognitive Development and Growth Mindset*; City Year Columbus Fall 2014
- Social Emotional Learning and Executive Functioning*; City Year Columbus Fall 2014

The Impact of Trauma on Student Development; City Year Columbus
Youth Development 101; City Year Columbus

Fall 2013
Fall 2013

Academic Service Experience

<i>Psychology Graduate Student Committee</i> – Psychology Department, University of Georgia	2018-present
<i>Psychology Educators Development Association</i> – Psychology Department, University of Georgia	2017-present
Member, 2017-present	
President, 2018-2019	
<i>Graduate Student Advisory Board</i> – Psychology Department, University of Georgia	2017-present
Behavioral and Brain Sciences Representative	
<i>Internal Interview Board</i> – Livingston Elementary School, Columbus Public City Schools	2015
<i>Events Planning Committee</i> – City Year Columbus	2013-2015
<i>Training Committee</i> – City Year Columbus	2013-2015
<i>Psi Sigma (Psychology Student Organization)</i> – Psychology Department, Ohio Northern University	2010-2013
Member, 2010-2013	
Vice President, 2012-2013	

Other Service Experience

Paper Reader and Poster Judge ; Georgia Junior Sciences & Humanities Symposium, Athens, Georgia	2018
- Read and scored 8 papers to determine symposium eligibility	
- Served as poster judge	
Behavioral Neuroscience Training Camp ; Nova Southeastern University; Davie, Florida	2016
- Led and assisted in several neuroscience lab technique sessions for high school students	
- Mentored several students on their discovery-based research projects	
Americorps Team Leader & Corps Member , City Year, Columbus Ohio	2013-2015
- Volunteered full time as a tutor, mentor, and role model in an urban elementary school and middle school to resolve the dropout crisis through the implementation of the Whole School, Whole Child model, focused on improving attendance, behavior, and course work in math and ELA	
- Lead a team of seven corps members through the City Year experience through observation and feedback sessions, biweekly check-in meetings, and general coaching, while performing the duties of a Corps Member	
Be The Change , Nova Southeastern University	2015-2016
- Participated in monthly service projects bettering the South Florida community	
Service Coordinator , Ohio Northern University	2011-2013
- Coordinated and lead student service trips and projects	
- Assisted in planning and organizing weekly chapel worship	
Student Service Project Coordinator , Restore, Ada Ohio	2010-2011
- Connected students attending the University with the surrounding community	
- Organized and oversaw quarterly community service projects in an elderly, low-income housing development	

Skills

Communication

Team Collaboration and Leadership

Executes Projects with Excellence

Advanced Critical Thinking Skills, Problem Solving, and Decision Making

Attentive to Time Schedules

Flexible and Willing to Take on a Variety of Tasks

Microsoft Office Word, PowerPoint, and Excel

APA Style Writing

Campus Leadership:

- Hall Counsel Representative
- Intercollegiate Varsity Swim Team
- Assistant Stage Manager – Ohio Northern Theatre
- Biology Student Association Member