

## Curriculum Vitae

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**Anna Gabrielle Warner**  
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### Education

- August 2018 – Present      University of New Orleans  
Doctor of Philosophy in Applied Biopsychology (*expected May 2024*)  
Primary Mentor: Dr. Christopher Harshaw  
Current GPA: 4.0
- December 2020              University of New Orleans  
Master of Science in Applied Biopsychology  
Master's Thesis: Early-Life Acetaminophen Exposure Disrupts Sex-Specific Social and Mate Preference Behaviors in Adolescent and Adult Rats
- May 2017                      University of North Carolina at Greensboro  
Bachelor of Arts in Psychology  
Minor in Anthropology  
GPA: 3.99- *Summa cum laude*  
Full University Honors  
Primary Mentor: Dr. George F. Michel  
Undergraduate Thesis: Investigating Self-Discrepancy, Self-Compassion and Prevention Focus

### Research Interests

- Neural, hormonal, and metabolic mechanisms underlying sex differences in brain and behavior after neonatal immune activation in rodents
- Interactions between hormonal milieu and xenobiotic exposures during sensitive period of brain sexual differentiation
- Neuroendocrine and neuroimmune signals involved in development of social and sexual behavior in rodents
- Development of sex-typical social behavior in rats used for improving animal models of neurodevelopmental disorders

## Awards & Honors

Spring 2020	Honorable Mention, National Science Foundation Graduate Research Fellowship Program. Proposed project: Neonatal Immune Activation and the Development of Sex-Typical Social and Sexual Behaviors in <i>Rattus Norvegicus</i>
Fall 2019	Student Travel award (\$300), International Society for Developmental Psychobiology
Fall 2018	Student Travel award (\$300), International Society for Developmental Psychobiology
Spring 2017	Awarded a Student Excellence Award by the UNCG Department of Psychology
Spring 2017	Phi Beta Kappa Honor Society
Summer 2016	Undergraduate Research and Creativity Award (\$2,000), UNCG Office of Undergraduate Research and Creativity
Summer 2016	Honors Travel Grant (\$450), UNCG Lloyd International Honors College
Spring 2016	Psi Chi – National Honor Society for Psychology
2016-2017	Junius and Elizabeth Parker Ketchie Scholarship
2013-2017	UNCG Chancellor's List (GPA of 3.65 or higher)
2013-2017	UNCG Dean's List (GPA of 3.55 or higher)
2014-2017	Lloyd International Honors College Dean's List (Straight As in all honors coursework)
Spring 2014	UNCG Scholar Award by the UNCG Office of Multicultural Affairs

## Publications

Harshaw, C. & **Warner, A.G.** (2020). Interleukin-1 $\beta$  injection causes loss of tail tips in neonatal mice. *Birth Defects Research*, 113(4), 382-387.

## Manuscripts in Preparation

Harshaw, C. & **Warner, A.G.** (*in prep*). Acetaminophen exposure during infancy causes sex-dependent alterations in social-emotional and repetitive behavior in C57BL/6J mice

**Warner, A.G.** & Harshaw, C. (*in prep*). Neonatal Acetaminophen exposure interacts with early-life hormonal milieu during sensitive period of brain sexual differentiation to alter sex-specific responses to social reward and mate preference behavior in Long-Evans rats

## Published Abstracts

**Warner, Anna G.** & Harshaw, Christopher (2019, October 16-18). *Antipyretic Exposure During Early Development and the Emergence of Social Behavior in C57BL/6J Mice*. [Conference poster abstract]. Fifty-second annual meeting of the International Society for Developmental Psychobiology, Chicago, IL, United States. <https://isdsp.org/wp-content/uploads/2019/10/Final-2019-Final-Program-for-web-1-2.pdf>

Harshaw, Christopher & **Warner, Anna G.** (2019, October 16-18). *Early-Life Antipyretic Exposure and the Display of Anxiety and Repetitive Phenotypes in C57BL/6J Mice*. [Conference poster abstract]. Fifty-second annual meeting of the International Society for Developmental Psychobiology, Chicago, IL, United States. <https://isdsp.org/wp-content/uploads/2019/10/Final-2019-Final-Program-for-web-1-2.pdf>

Michel George F., **Warner, Anna G.**, Rees, Madeline, Latta, Johnathan (2018, October 31- November 2). *Infant Handedness: Serial Homology or Developmental Cascade?* [Conference poster abstract]. Fifty-first annual meeting of the International Society for Developmental Psychobiology, San Diego, CA, United States. <https://isdsp.org/wp-content/uploads/2018/12/ISDP-2018-Final-Program-Abstracts.pdf>

## Conference Presentations

*Early-Life Acetaminophen x 17 $\beta$ -Estradiol Interactions Alter Juvenile Social Play and Social Conditioned Place Preference in Long-Evans Rats*. Poster to be presented at the Organization for the Study of Sex Differences virtual conference (May 2021)

*Antipyretic Exposure During Early Development and the Emergence of Social Behavior in C57BL/6J Mice*. Poster presented at the International Society for Developmental Psychobiology conference in Chicago, IL (November 2019)

*Early-Life Inflammation and Acetaminophen Exposures on Social Behavior in C57BL/6J Mice: Preliminary Findings and Future Directions in Developing a Rat Model*. Talk presented at the University of New Orleans Developmental and Biopsychology Seminar Series. (November 2019)

*Infant Handedness: Serial Homology or Developmental Cascade?* Poster presented at the International Society for Developmental Psychobiology conference in San Diego, CA (October 2018)

*Investigating Self-Discrepancy, Self-Compassion, and Prevention Focus.* Poster presented at the UNCG Undergraduate Research and Creativity Expo (April 2017)

*The Moderating Impact of Self-Compassion on Self-Discrepancy and Mood.* Talk presented at the 17<sup>th</sup> Annual Undergraduate Honors Symposium (February 2017)

**Relevant coursework:** Advanced Statistics I (Introduction to R<sup>®</sup>), Advanced Statistics II (Regression analyses, Introduction to SAS<sup>®</sup>), Genetics and Behavior, Developmental Biology, Advanced Biopsychology I, Advanced Biopsychology II, Virology

## Research Experience

August 2018 – present

*Graduate Research Assistant/Lab Manager, Mechanisms Underlying Sociality Lab*

- Assist in designing, managing, and conducting experiments and behavioral testing for ongoing lab projects and thesis research
- Build apparatus for behavioral testing
- Conduct Enzyme-Linked Immunosorbent Assays (ELISAs) on rodent serum samples
- Develop and implement behavioral coding protocols for social behavior and mate preference in rats
- Assist in writing Institutional Animal Care and Use Committee (IACUC) protocols
- Data analysis and visualization in R<sup>®</sup>
- Animal care: Breeding, euthanasia, monitoring health and welfare of animals
- Administer early-life subcutaneous injections, perform gonadectomies, brain extractions
- Train and manage undergraduate Research Assistants on animal handling, experiment and testing protocols

January 2021 – present

*Rotating Graduate Assistant, Zvezdaryk Lab, Tulane Medical University*

Learn and assist with methods implemented for project examining the potential role of Cytomegalovirus infection on onco-regulatory processes in glioblastoma cells

- RT-PCR
- RNA isolation
- Viral titration
- Culture of immortalized glioblastoma cell lines
- Western Blot
- Glycolysis Stress assay via Seahorse<sup>®</sup> XFe96 Analyzer

Spring 2017-Summer 2018

*Research Assistant, Infant Development Center*

- Coded role-differentiated bimanual manipulations (RDBMs) in videos of 2-year-old and 5-year-old infants.
- Assisted with projects examining associations between the development of hand preference for fine motor manual abilities during infancy and cognitive outcomes during early childhood.

Spring 2016-Spring 2017

*Undergraduate Researcher, Senior Honors Thesis Project*

- Received IRB approval and made appropriate IRB revisions before collecting data.
- Created online study via Qualtrics that assessed anxiety, self-discrepancy, and self-compassion.
- Ran statistical analyses via SPSS<sup>®</sup> and presented preliminary and final results in formal talks and a poster session.
- Received approval for written thesis proposal and final thesis project from Psychology honors liaison and the UNCG Lloyd International Honors College

Spring 2015-Fall 2018

*Research Assistant, UNCG Depression Treatment and Research Program*

- Helped recruit clients with clinical depression to participate in a study concerning anhedonia.
- Conducted studies with participants assessing daily emotions and cognitions in relation to fluctuations in cortisol
- Trained new research assistants and responded to participant emails about Qualtrics troubleshooting and study questions

## **Leadership**

2016-2017

*Honors Ambassador, UNCG Lloyd International Honors College*

- Represented LIHC at major university events
- Spoke with freshmen about the benefits of the honors college, undergraduate research, and study abroad
- Reviewed applications for prospective ambassadors and visited high schools to recruit prospective students

2015-2017

*University Marshal, UNCG*

- Among top 100 undergraduates at UNCG with a GPA of

3.65 or higher

- Assisted with commencement ceremonies every semester
- Interacted with UNCG alumni and other university affiliates at major events about undergraduate education

### **Teaching Experience**

August 2018-present

*Graduate Teaching Assistant, University of New Orleans*

- Assist students with questions about course material during office hours and lecture
- Lead lab sections on SPSS® exercises in Statistics and Research Methods course
- Provide feedback on undergraduate research thesis drafts
- Conduct lecture, “Methods in Animal Neuroscience” for Statistics and Research Methods course every semester

**Teaching Assistant Courses:** Research Methods and Statistics, Comparative Psychology, Child Psychology, Human Sexuality