

Meredith E. Gamble, Ph.D.

Curriculum Vitae
2023

University of Vermont
Vermont Center on Behavior and Health
1 South Prospect St.
Burlington, VT 05452
meregamble11@gmail.com
240-626-9127

Education

- Ph.D. 2023** **Binghamton University, Behavioral Neuroscience**
Dissertation title: Adult hippocampal dysfunction and related cognitive impairments following prenatal methadone exposure.
Advisor: Marvin R. Diaz, Ph.D.
- M.S. 2020** **Binghamton University, Psychology**
Thesis title: Moderate adolescent ethanol vapor exposure and acute stress in adulthood: sex-dependent effects on social behavior and ethanol intake in Sprague-Dawley rats.
Advisor: Marvin R. Diaz, Ph.D.
- B.S. 2018** **Rochester Institute of Technology, Psychology**
Minor: American Sign Language and Deaf Studies
Awarded *summa cum laude*
Thesis title: Alcohol drinking patterns and personality differences among adult children of alcoholics.
Advisor: Stephanie A. Godleski, Ph.D.

Research Experience

- 2023- present **Postdoctoral Research Fellow (T32)**
University of Vermont
Vermont Center on Behavior and Health
Advisor: Sarah Heil, Ph.D.
- 2018- 2023 **Graduate Student Researcher**
Binghamton University
The Alcohol and Development Lab
Advisor: Marvin R. Diaz, Ph.D.
- 2018 **Senior Capstone Project in Psychology**
Rochester Institute of Technology
Advisor: Stephanie A. Godleski, Ph.D.

2017-2018 **Research Assistant**
Rochester Institute of Technology
The Comparative Cognition & Perception Lab
Research focus: Visual discrimination abilities of North American river otters
Advisor: Caroline DeLong, Ph.D.

2017-2018 **Research Assistant**
National Technical Institute for the Deaf – Rochester Institute of Technology
Research focus: Categorical sound perception in students with cochlear implants
Advisors: Vincent Samar, Ph.D. and Joseph Bochner, Ph.D.

Peer-reviewed Publications

Gamble, M.E., Marfatia, R., and Diaz, M.R. (2022). Prenatal methadone exposure leads to long-term memory impairments and disruptions of dentate granule cell function in a sex-dependent manner. *Addiction Biology*.

Przybylski, K.R., Gamble, M.E., and Diaz, M.R. (2021). Moderate adolescent chronic intermittent ethanol exposure sex-dependently disrupts synaptic transmission and kappa opioid receptor function in the basolateral amygdala of adult rats. *Neuropharmacology*, 188, 108512.

Gamble, M.E. and Diaz, M.R. (2020). Moderate adolescent ethanol vapor exposure and acute stress in adulthood: sex-dependent effects on social behavior and ethanol intake in Sprague-Dawley rats. *Brain Sciences* 10 (11), 829.

Abstracts, Poster Presentations, and Research Talks

Gamble, M.E. (2023, June). *Adult hippocampal dysfunction and related cognitive impairments following prenatal methadone exposure*. Speaker at the International Behavioral Neuroscience Society annual meeting, Niagara Falls, Canada.

Gamble, M.E. (2022, June). *Prenatal methadone exposure leads to sex-dependent alterations in adult hippocampal function and related cognitive behaviors*. Speaker at University of Maryland School of Medicine Inaugural Substance Use in Pregnancy Symposium, virtual.

Gamble, M.E., Marfatia, R., and Diaz, M.R. (2022, May). *The sex-dependent effects of prenatal methadone exposure on adult hippocampal function and related behaviors*. Poster presentation at International Society for Developmental Neuroscience, Vancouver, Canada.

Gamble, M.E., Marfatia, R., and Diaz, M.R. (2021, November). *The long-term effects of prenatal methadone exposure on adult learning and memory and related hippocampal function*. Poster presentation at Society for Neuroscience annual meeting, virtual.

Gamble, M.E., Marfatia, R., and Diaz, M.R. (2021, July). *The sex-dependent effects of prenatal methadone exposure on adult hippocampal function and spatial memory*. Poster presentation at International Narcotics Research Conference 2021, virtual.

Gamble, M.E. and Diaz, M.R. (2021, February). *The long-term effects of prenatal methadone exposure on dentate granule cell excitability and markers of adult hippocampal neurogenesis*. Poster presentation at Binghamton University Behavioral Neuroscience Winter Scientific Symposium, virtual.

Gamble, M.E. and Diaz, M.R. (2020, June). *Moderate adolescent ethanol vapor exposure and acute stress in adulthood: sex-dependent effects on social behavior and ethanol intake in Sprague-Dawley rats*. Abstract for Research Society on Alcoholism, virtual.

Gamble, M.E. and Godleski, S. (2018, May). *Alcohol drinking patterns and personality differences among adult children of alcoholics*. Poster presentation at RIT Undergraduate Research Symposium. Rochester Institute of Technology, Rochester, NY.

Morrison, E., DeLong, C.M., Wright, C., Gardner, K., Rachfal, H., Gamble, M., Wilcox, K.T., Frye, D., Thorner, H., Fobe, I., and Dami, J. (2018, April). *North American River Otters (*Lontra canadensis*) use shape and color to discriminate between 2D objects*. Poster presentation for 25th Annual International Conference on Comparative Cognition - Comparative Cognition Society, Melbourne Beach, FL.

Independent Teaching Positions

2022	<u>Seminar: Biological Bases of Mental Disorders</u> , Instructor, Binghamton University
2021	<u>Drugs and Behavior</u> , Instructor, Binghamton University
2020	<u>Lab in Behavioral Neuroscience</u> , Lab Instructor, Binghamton University
2020	<u>Lab in Learning</u> , Lab Instructor, Binghamton University
2018, 2019, 2022	<u>Research Methods</u> , Lab Instructor, Binghamton University (3 semesters)
2017-2018	<u>Introduction to Statistics I and II</u> , Higher Education Opportunities Program Tutor, Rochester Institute of Technology

Teaching Assistant Positions

2021, 2023	<u>Evolution and Behavior</u> , Binghamton University (2 semesters)
2019	<u>Behavioral Neuroscience</u> , Binghamton University

Honors and Awards

2023	Binghamton University Research Day's Art of Science Competition, 2 nd place
2022	International Society for Developmental Neuroscience Trainee Travel Award
2021-2022	Center for Development and Behavioral Neuroscience Research Fellowship
2019	Graduate Student Professional Development Award

Professional Memberships

2023-present	Member of the International Behavioral Neuroscience Society
2022-present	Member of International Society for Developmental Neuroscience

2021- present	Student member of the Society for Neuroscience
2019- present	Student member of the Research Society on Alcoholism
2018- present	Youth member of the United Nations Association- USA

Journal Reviews

Neuropharmacology (assisted)
Addiction Biology (assisted)
Drug and Alcohol Dependence (assisted)

Additional Courses and Certifications

2022	Data Management for Clinical Research (REDCap system), online from Vanderbilt University
2021	Opioid overdose prevention and naloxone training, Binghamton University

Mentorship and Community Outreach

2023	Binghamton University Art of Science Competition Selected as a finalist in the Art of Science art show as part of Binghamton University's Research Days. These events are intended to communicate ongoing scientific research with the Binghamton community.
2022	Psychology career talk at Johnson City High School Met with a group of students enrolled in a Psychology class at the high school to discuss psychology career options, advice and experience in navigating college applications and planning education goals.
2021- 2023	Chair - Women & Gender in Academia Committee, Binghamton University Led a graduate student-run program for advocacy of women and gender minorities in the department. Our committee coordinated workshops and events, created bi-monthly newsletters, and led organizational meetings, all intended to facilitate progress toward a more inclusive environment.
2020- 2023	Graduate Student Mentor, Psychology Department Acted as a mentor for first-year graduate students joining the Psychology department. Supported their transition to graduate school, gave advice on classes and research, and helped to answer any questions about being a Ph.D. student.
2019- 2023	English Learning Partner, Literacy Volunteers of Broome County Led weekly one-on-one tutoring sessions and English conversation classes for individuals of all ages and English levels working toward improving their language skills.
2021	Undergraduate Mentor, Psychology Graduate Student Organization Acted as a mentor for Psychology and Integrative Neuroscience undergraduates in helping to select graduate schools, discussing career paths, and generally supporting them as they progressed towards graduation.

2019, 2020

Community Outreach, BU Day at the Mall

Ran a booth at the public outreach event to intended to bring neuroscience education and awareness to the local community.

2017-2018

RIT-RISE Student Assistant

Planned scientific talks and networking events on behalf of the Research Initiative for Scientific Enhancement of Deaf and Hard-of-Hearing undergraduates at Rochester Institute of Technology

2017

United Nations Association of Rochester

Assisted in project development and community events in support of several nonprofits in the Rochester, NY area, with a focus on refugee resettlement and accessibility to mental health services.