

Education

University of Wisconsin-Madison

Ph.D., (expected 2027), Department of Psychology; Area Group: Biological Psychology
HHMI Gilliam Fellow
Schwartz Fellow
Wisconsin Alumni Research Foundation Graduate School Fellow

Madison, WI
Sept. 2021 - present

University of Wisconsin-Madison

B.S., majors: Neurobiology, Psychology
Phi Beta Kappa honors

Madison, WI
May 2021

Research

Ph.D. Student, University of Wisconsin-Madison Department of Psychology

Prof. Catherine Marler, Ph.D.

Madison, WI
Sept. 2021 - present

Exploring the role of microglia on social decision-making and pair bonding in the monogamous, biparental California mouse. Investigating the bidirectional relationship between the immune response and social behaviors in the California mouse. Determining the role of exogenous oxytocin on inflammation, wound healing, and anxiety-like behavior in various social contexts in the California mouse

Senior Thesis, University of Wisconsin-Madison Department of Obstetrics and Gynecology

Prof. David Abbott, Ph.D.

Madison, WI
Sept. 2020 - May 2021

Developed and implemented project evaluating the interaction between cycling estradiol and progesterone during the menstrual cycle and social hierarchy on prosocial decision-making and spontaneous prosocial behavior in female rhesus macaques. Performed animal training, behavior tests and analysis, blood draws, data analysis, and designed and constructed a testing apparatus for non-human primates.

Research Assistant, University of Wisconsin-Madison Department of Obstetrics and Gynecology

Prof. David Abbott, Ph.D.

Madison, WI
Jan. 2017 - May 2021

Investigated the role of estradiol on female sexual behavior in the common marmoset monkey and rhesus macaques. Evaluated the effect of letrozole treatment on sexual behavior in marmosets. Duties included administering treatment, animal handling, and behavior testing. Evaluated the effect of an estrogen-receptor knockdown in the ventromedial hypothalamus on sexual motivation in female rhesus macaques. Duties included animal handling, behavior testing, and data analysis.

Publications

Hammond, E. R., Monari, P. K., Luebke, E. M., Johnson, A. K., Auger, A. P., & Marler, C. A. (2026). Affiliative behavioural phenotype and microglial activation predict social decision-making following immune activation. *Behavioural Brain Research*, 116194.

Hammond, E., Monari, P., Kilponen, L., Chen, Y., Auger, A., Marler, C. (2025) Oxytocin impairs wound-healing during social isolation but not social living. *Psychoneuroendocrinology*, 176, 107445

Monari, P. K., **Hammond, E. R.**, Marji, M., Douglas, B. D., Cleveland, D. M., Malone, C. L., & ALAN Community. (2025). A guide to building and sustaining Antiracist Learning-Action Communities in academia. *Collabra: Psychology*, 11(1), 130032.

Malone, C. L., Li, J., Luebke, E. M., Carreras-Simons, L., Treis, W. W., **Hammond, E. R.**, Monari, P.K., & Marler, C. A. (2025). Sex differences in structural and receptor mRNA expression in the ventral anterior cingulate cortex and a potential role of perineuronal nets in monogamous pair bond establishment (*Peromyscus californicus*). *Biology of sex Differences*, 16(1), 58

Monari, P. K., **Hammond, E. R.**, Zhao, X., Maksimoski, A. N., Petric, R., Malone, C. L., Ritters, L.V., & Marler, C. A. (2024). Conditioned preferences: Gated by experience, context, and endocrine systems. *Hormones and Behavior*, 161, 105529.

Monari, P., **Hammond, E.**, Malone, C., Cuarenta, A., Hiura, L., Wallace, K.J., Taylor, L., Pradhan, D.S. (2023) Leveraging individual power to improve racial equity in academia. *Hormones and Behavior*, 152, 105358.

Rieger, N. S., Guoynes, C. D., Monari, P. K., **Hammond, E. R.**, Malone, C. L., & Marler, C. A. (2022). Neuroendocrine mechanisms of aggression in rodents. *Motivation Science*, 8(2).

Manuscripts in Preparation

Hammond, E., Zhao, X., Brown, S., Monari, P., & Marler, C. (*In prep*) Sex differences in anxiety and social motivation after isolation and oxytocin treatment in California mice.

Kihntopf, M., Monari, P., Olson, S., Cox, K., **Hammond, E.**, & Marler, C. (*In prep*) Paternal deprivation enhances social peer preference in a monogamous mouse during peri-adolescence.

Monari, P., **Hammond, E.**, Hu, Z., Karnati, S., Xue, Z., Li, L., Daino, E., Kilponnen, L., Jang, Y., & Marler, C. (*In prep*) Ventral hippocampal neurogenesis regulates bonding-dependent anxiety in a monogamous species.

Presentations and Posters

Hammond, E. Sickness social decision-making. Society for Integrative and Comparative Biology, 2026. Portland, OR

Hammond, E., Monari, P., Luebke, E., Johnson, A., Auger, A., & Marler, C. Affiliative behavioural phenotype and microglial activation predict social decision-making following immune activation. Society for Integrative and Comparative Biology, 2026. Portland, OR

Hammond, E., Monari, P., Luebke, E., Johnson, A., Auger, A., & Marler, C. Affiliative behavioural phenotype and microglial activation predict social decision-making following immune activation. HHMI December Science Meeting, 2025. Chevy Chase, MD

Hammond, E., Monari, P., Luebke, E., Johnson, A., Auger, A., & Marler, C. The role of microglia on social decision-making during sickness. Gilliam Fellows Meeting, 2025. Chevy Chase, MD.

Hammond, E., Monari, P., Kilponen, L., Auger, A., Marler, C. Oxytocin and Social Context Interactions in Wound Healing and Sickness Behavior. Gilliam Fellows Meeting, 2024. Chevy Chase, MD.

Hammond, E., Monari, P., Marler, C. LPS and oxytocin treatment alters social behavior through microglial activation in the mPFC and dentate gyrus. Society for Neuroscience, 2024. Chicago, IL.

Hammond, E., Zhou, X., Scapple, A., Monari, P., Karnati, S., Yim, A., Li, J., Marler, C. Sex differences in anxiety and social motivation following isolation and oxytocin treatment. Society for Behavioral Neuroendocrinology, 2024. Columbus, OH.

Hammond, E., Monari, P., Kilponen, L., Marler, C. Oxytocin increases sickness-like and huddling behavior following LPS-induced inflammation. Society for Behavioral Neuroendocrinology, 2023. Tours, France.

Monari, P., **Hammond, E.,** Malone, C., Cuarenta, A., Hiura, L.C., Wallace, K.J., Taylor, L., Pradhan, D.S. Leveraging individual power to improve racial equity in academia. Society for Behavioral Neuroendocrinology, 2023. Tours, France.

Hammond, E., Monari, P., Kilponen, L., Chen, Y., Marler, C. Negative effects of oxytocin on wound healing in isolated individuals of a monogamous species. Psychology First Year Project Symposium, 2022. Madison, WI.

Hammond, E., Monari, P., Kilponen, L., Chen, Y., Marler, C. Negative effects of oxytocin on wound healing in isolated individuals of a monogamous species. Animal Behavior Society, 2022. Virtual.

Monari, P. & **Hammond, E.** Skills for building and maintaining racial justice learning-action groups. Society for Behavioral Neuroendocrinology, 2022. Atlanta, GA.

Hammond, E., Monari, P., Kilponen, L., Chen, Y., Marler, C. Negative effects of oxytocin on wound healing in isolated individuals of a monogamous species. Society for Behavioral Neuroendocrinology, 2022. Atlanta, GA.

Hammond, E., Abbott., D.H. The influence of the menstrual cycle and social dominance on prosocial behavior in female rhesus macaques (*Macaca mulatta*). Undergraduate Research Symposium, 2021. Virtual.

Hammond, E., Greinwald., E., Abbott., D.H. Female sexual behavior following silencing of hypothalamic estrogen receptor alpha (ER α) expression in rhesus macaques (*Macaca mulatta*). Undergraduate Research Symposium, 2019. Madison, WI

Awards and Fellowships

HHMI Gilliam Fellowship

Sept. 2024 – present

Schwartz Fellowship

April 2026

Outstanding Service Award, UW-Madison

April 2025

Graduate Student Service Award, Psychology Department

May 2024

Society for Behavioral Neuroendocrinology Travel Award

June 2024

Student Activism Award, Morgridge Institute

April 2023

National Science Foundation Graduate Research Fellowship Honorable Mention

March 2023

Animal Behavior Society Travel Award

July 2022

Wisconsin Alumni Research Foundation Fellowship

Sept. 2021 – Sept. 2024

Teaching and Mentorship

Research Mentor, University of Wisconsin-Madison Department of Psychology

Jan. 2022 - present

Has directly mentored seven undergraduates, including working with one on a senior thesis.

Teaching Assistant, University of Wisconsin-Madison Department of Psychology

Jan. 2022 - May 2022,

Hormones, Brain, and Behavior Course

Jan. 2023 - May 2023,

Jan. 2024 - May 2024

Teaching Assistant, University of Wisconsin-Madison Department of Psychology

Sept. 2023 - Dec 2023

Intro to Psychology Course

Reader/Grader, University of Wisconsin-Madison Department of Psychology

Sept. 2021 - Dec. 2021

Animal Behavior Course

Student Coordinator, University of Wisconsin-Madison Department of Obstetrics & Gynecology *Sept. 2020 - May 2021*

Directly organized and coordinated schedules of 18 undergraduate research assistants at the Abbott Lab. Organized and facilitated a weekly Journal Club for lab-relevant papers. Graded article presentations.

Behavior Mentor, *University of Wisconsin-Madison Department of Obstetrics & Gynecology* Sept. 2020 - May 2021

Directly mentored two undergraduates within the Abbott lab on skills such as behavior data collection, training non-human primates on behavior tasks, coding and analyzing behavior data.

Peer Mentor, *University of Wisconsin-Madison Chadbourne Residential College* Sept. 2018 - Dec. 2018

Discussion facilitator and mentor for first-year undergraduates interested in topics of diversity, social justice, inclusivity, and the liberal arts at Chadbourne Residential College. Facilitated the ILS138 course for first-year undergraduates.

Volunteer Activities

Chair, Antiracist Learning Action Group in Neuroscience

Sept. 2021 – present

Host and Facilitator, Disability in STEM Symposium

Oct. 2025