

Jessica R. Hoffman, B.S.

Curriculum Vitae, updated August 2022

Department of Nutritional Sciences, University of Georgia

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I've spent the past three years I have helped set up a lab and have been working in an intensive research environment where we investigate the neural regulation of eating and drinking behavior. Based on this experience, I am really excited about pursuing a career in research. I have greatly enjoyed working in a collaborative research environment. I particularly enjoy brainstorming ideas in lab meetings, reading and presenting articles in journal club, troubleshooting experiments, and working with the undergraduate students. I am interested in studying the neurobiology of motivated behaviors, addiction, as well as learning and memory.

EDUCATION

B.S. in Chemistry (May 2019): University of Florida GPA: 3.67

B.S. in Psychology (*Specialization in Cognitive and Behavioral Neuroscience*) University of Florida: GPA: 3.97

EMPLOYMENT

Lab Manager (November 2019-present)

Noble Nutritional Neuroscience Lab, University of Georgia, Athens, GA

Supervisor: Emily Noble, PhD

Technical Proficiencies: immunohistochemistry, immunoblotting, RT-qPCR, stereotaxic surgeries (intracranial), tissue cryosectioning, rodent handling (rats and mice), transcardial perfusions, brain tissue dissections, estrus cycle tracking, food intake monitor cages (Sable Systems), fluorescence in situ hybridization, intracranial injections, intraperitoneal glucose tolerance testing.

Rodent Behavior: Operant Conditioning (Med Associates; Differential Reinforcement of Low Rates of Responding, Progressive Ratio, Delay Discounting), Barne's Maze, Novel Object Recognition, Novel Object in Context Recognition, Spatial Location Recognition, Elevated Plus Maze, Open Field, Risky Binge.

Managerial Tasks: Training and managing undergraduate students (10/semester), maintaining equipment, ordering, maintaining records, lab safety training and protocol management, coordinating with animal care staff, budget management.

Math Tutor (September 2016-August 2019)

Broward Teaching Center, University of Florida, Gainesville, FL

Duties: Perform one-on-one and group tutoring in Calculus 1 and below math courses, develop review materials, conduct exam review sessions

SCIENTIFIC PUBLICATIONS

1. Lord MN., Heo JW. Schifino AG., Hoffman, JR., Donohue KN., Call JA., **Noble EE.**, “Sexually dimorphic effects of a Western Diet on brain mitochondrial bioenergetics and neurocognitive function.” *Nutrients*, 2021; 13(12), 4222. (PMID 34959774)
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ABSTRACT PRESENTATIONS

1. **Hoffman JR.**, Noble EE. “Impact of a Western Diet on brain mitochondrial network dynamics and behavior” – Poster presentation, *The Society for the Study of Ingestive Behavior*, July 2022
2. Lord MN., **Hoffman JR.**, Donohue KN., Schifino AG., Heo JW., Call JA, and Noble EE. “Sexually dimorphic effects of Western Diet on brain mitochondrial bioenergetics and neurocognitive function ” – Poster presentation, *Society for Neuroscience annual meeting*, November 2021
3. Spaulding MO., **Hoffman JR.**, Lord MN., Donohue KN., Noble EE. “Paraventricular hypothalamic melanin-concentrating hormone signaling and food intake control” – Poster presentation, *Society for Neuroscience annual meeting*, November 2021
4. **Hoffman JR.**, Noble EE. “Brain glycogen metabolism and feeding behavior” – Poster presentation, *The Obesity Society annual meeting*, November 2020
5. Soares-lizuka, CA., Lord, MN., **Hoffman, JR.**, Spaulding, MO., Madu, GC., Noble, EE. “Impact of Diet Induced Obesity on Hypothalamic Mitochondrial Network Dynamics” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2022
6. Ko, KQY., **Hoffman JR.**, Noble EE. “Impact of Sex and Estrous Cycle on Macronutrient Preferences In Rats” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2022
7. Basma, R., Lord, MN., **Hoffman JR.**, Noble EE. “Effect of peripherally injected cb1 receptor agonist on food intake” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2022
8. Bhatia, OS., Lord, MN., Spaulding, MO., Madu, GC., **Hoffman JR.**, Noble EE. “Effect of a western diet on learning, memory, and hippocampal insulin receptor function” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2022
9. Brown, AL., **Hoffman JR.**, Donohue, KN., Lord, MN., Noble EE. “Feeding behavior and melanin-concentrating hormone (MCH) in the paraventricular nucleus of the hypothalamus (PVH)” – Poster presentation, *Summer Undergraduate Research Experience in Neuroscience Symposium*, July 2021
10. Ballew, LE., **Hoffman, JR.**, Noble EE. “Melanin concentrating hormone increases food intake: a role for primary cilia” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2021
11. Yalta, JC., Spaulding, MO., **Hoffman, JR.**, Noble EE. “The effects of food insecurity on cognitive development and metabolism” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2021

12. Whitehead, MK., Lord, MN., **Hoffman, JR.**, Noble EE. “Effect of a high fat/high sugar western diet on brain glycogen” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2021
 13. Bloodworth, AT., **Hoffman, JR.**, Noble EE. “Melanin concentrating hormone signaling on primary cilia of the paraventricular hypothalamus (PVH) and the regulation of food intake” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2020
 14. Donohue KN., **Hoffman, JR.**, Noble EE. “Effect of hypothalamic melanin concentrating hormone receptor signaling on diet-induced reproductive dysfunction in females” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2020
 15. Whitehead, MK., **Hoffman, JR.**, Noble EE. “Brain Glycogen Metabolism and Feeding Behavior” – Poster presentation, *Center for Undergraduate Research Opportunities Symposium*, April 2020
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OTHER PROFESSIONAL ACTIVITIES AND DISTINCTIONS

Awards and Honors

- Graduated Cum Laude
- Recipient of the Dean’s Medal
- Member of Phi Beta Kappa

Service

- University of Florida Academic Advisor Hiring Committee Member
 - Student Representative in the Undergraduate Advising Committee at the University of Florida
 - Member of the Student Advisory Committee for Undergraduate Affairs at the University of Florida
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