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Education

Present

Ph.D. Candidate

Lehigh University

Biological Sciences, Ph.D.

2019

Master of Science in Biology, with Distinction

California State University Fresno

Thesis Title: “Modelling Perception, Learning and Memory in Ant Visual Navigation”

Thesis Advisor: Dr. David D. Lent

2017

Bachelor of Science in Biology

California State University Fresno

Positions Held

08/2019—Present, Research Assistant

Lehigh University

Supervisor: Dr. Julie S. Haas

Awards

Thorne Fellowship, Fall 2022

CAS Summer Fellowship, Summer 2022

Publications

Rolón-Martínez, S, **Mendoza, AJ**, Angeloni, CF, Diaz-Nieves, IA, Chen, R, Haas, JS,

& MN Geffen. “Inhibitory neuron types of the TRN differentially modulate auditory thalamic sound responses.” Submitted. *BioRxiv*. Doi:10.1101/2024.06.29.601250

Mendoza, AJ & JS Haas. 2022. “Intrinsic sources and functional impacts of asymmetry at electrical synapses” *eNeuro*. Doi:10.1523/ENEURO.0469-21.2022

Conference Presentations

“Understanding variations in MGB tone responses due to TRN synaptic connectivity”

Poster Presentation. Society for Neuroscience, November 2023.

“Intrinsic sources and functional impacts of asymmetry at electrical synapses”

Poster Presentation. Philadelphia Chapter Society for Neuroscience. 2023.

“Electrical synapse asymmetry results from, and masks, neuronal heterogeneity”

Poster Presentation. Computational Neuroscience Symposium, 2021.

“Modeling visual perception, learning, and memory of wood ants navigating in naturalistic environments.” Poster Presentation. Society for Neuroscience, November 2018.

“Modeling visual perception, learning, and memory of wood ants navigating in naturalistic environments.” Poster Presentation. Society for Neuroscience, November 2017.

References

Dr. Julie S. Haas, Associate Professor, Lehigh University

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Dr. David D. Lent, Associate Professor, California State University Fresno

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