

ANNGELY LEEDS

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EDUCATION

Georgetown University	Anticipated 2028
Doctor of Philosophy - Biology	
University of California, San Diego	December 2022
Master of Science - Biology (GPA: 4.0)	
University of California, San Diego	August 2021
Bachelor of Science - Ecology, Behavior, and Evolution (GPA: 3.7)	

RESEARCH EXPERIENCE

Georgetown University	August 2023 - current
<i>Graduate Student Researcher</i> - Advisor: Leslie Ries	
Researching the effects of an invasive host plant and climate stressors on the overwintering survival of Baltimore checkerspot (<i>Euphydryas phaeton</i>) caterpillars. Research includes rearing <i>E. phaeton</i> caterpillars on a native host plant or invasive host plant and exposing caterpillars to winter heatwaves and drought conditions. RNA-seq will be used to determine differentially expressed genes across treatment groups, and identify potential metabolic pathways upregulated in response to heat waves and/or drought.	
University of California, San Diego	September 2021 - June 2023
<i>Graduate Student Researcher</i> - Advisor: James Nieh	
Investigated the thermal tolerance of feral and managed honey bees (<i>Apis mellifera</i>) in San Diego. The research focused on honey bee survival following exposure to heat shock or cold shock. Results indicated that feral honey bees had greater heat tolerance and no difference in cold tolerance in comparison to managed honey bees.	
University of California, San Diego	January 2021 - August 2021
<i>Undergraduate Student Researcher</i> - Advisors: James Nieh, Amy Geffre	
Assisted a graduate student in a research project focused on viral infections of feral and managed honey bees (<i>Apis mellifera</i>). The research included viral amplification and monitoring the survival of feral and managed honey bees in laboratory survival trials.	

TEACHING EXPERIENCE

Georgetown University	August 2024 - current
Lead laboratory section for a class of 27 students, perform grade-oversight, and hold office hours as a Graduate Teaching Assistant for BIOL-1800: Ecology .	
University of California, San Diego	September 2019 - August 2022
Led discussion groups and provided guidance for 312 total students over the course of 9 quarters.	
Head Instructional Assistant for BILD 1: The Cell (2 quarters, 75 students) and BILD 3: Organismic and Evolutionary Biology (2 quarters, 122 students)	
Undergraduate Instructional Assistant for BILD 1: The Cell (4 quarters, 80 students) and BICD 100: Genetics (1 quarter, 35 students)	

AWARDS

Maryland Native Plant Society Research Grant (\$1066.40)	April 2024
Animal Behavior Society Diversity Travel Award (\$145)	June 2022
Jeanne Anne Nieh Memorial Fellowship (\$1,000)	November 2021
Triton Research & Experiential Learning Scholar Award (\$1,000)	June 2021

AFFILIATIONS

Lepidopterists' Society of America (Student Member)

March 2024

Entomological Society of America (Graduate Student Member)

July 2023

MANUSCRIPT IN PROGRESS

Leeds, A. & Nieh, J.C. "Thermotolerance of scutellata-hybrid honey bees and managed European honey bees (*Apis mellifera*) in Southern California" *In prep.*

PRESENTATIONS & SYMPOSIA

Responses to a Changing Climate: Integrating Physiology, Ecology, and Evolution. Member Symposium at Entomology 2024; November 10, 2024; Phoenix, Arizona.

Thermotolerance of feral and managed honey bees with implications for beekeeping. Invited presentation at San Diego Beekeeping Society; May 13, 2024; San Diego, California.

Heat and cold tolerance of feral and managed honey bees (*Apis mellifera*) in San Diego, California. 10-minute student talk presented at Entomology 2023; November 6, 2023; National Harbor, Maryland.

Preliminary data suggest feral honey bees tolerate thermal stress better than managed honey bees. Poster presented at Animal Behavior Society 2022; July 20, 2022; San José, Costa Rica.

MENTORSHIP

Undergraduate students: Katrina Saam (UC San Diego), Ella Camp (Georgetown University), Zoe Schaffer (Georgetown University), Nikhil Yeddula (Georgetown University).

OUTREACH & VOLUNTEER EXPERIENCE

Biology Organization of Graduate Students (BOGS)

August 2024 - current

Social Chair. Plan and carry-out social events that bring the graduate student community together, including coffee hours and happy hours.

Justice, Equity, Diversity, and Inclusion Committee (JEDI)

June 2024 - August 2024

New Student Bootcamp Organizer. Worked with a team of four committee members to create and implement a three-day workshop series designed to help incoming graduate students develop skills to succeed in the graduate program.

Science Communication Instagram Account

April 2024 - current

@anngebees. A personal instagram account with the goals of communicating my personal research and sparking a deeper curiosity and interest in insects and entomology.

Spectrum News SoCal

January 2024

Interviewed by a local reporter (Bree Steffen) to share the results of my honey bee research project for a general audience.

REFERENCES

James Nieh
Master's Thesis Advisor
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Leslie Ries
PhD Advisor
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Andrew Cooper
Instructional Advisor
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