ANNGELY LEEDS

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EDUCATION

Georgetown University August 2023 - current
Doctor of Philosophy - Biology
University of California, San Diego September 2021 - December 2022
Master of Science - Biology (GPA: 4.0)
University of California, San Diego September 2017 - August 2021
Bachelor of Science - Ecology, Behavior, and Evolution (GPA: 3.7)

RESEARCH EXPERIENCE

Georgetown University August 2023 - current
Graduate Student Researcher
Advisor: Leslie Ries
Developing research ideas on the effects of larval nutrition on heat tolerance of Baltimore checkerspot butterflies (*Euphydryas phaeton*). The objective of this project is to assess the impact of invasive host plant use on winter heat tolerance of *E. phaeton* larvae. Research will include rearing *E. phaeton* on a native host plant and invasive host plant and exposing larvae to winter heatwaves. RNA-seq will be used to determine differentially expressed genes across treatment groups.

University of California, San Diego September 2021 - June 2023
Graduate Student Researcher
Advisor: James Nieh
Investigated the thermal tolerance of feral and managed honey bees (*Apis mellifera*) 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 cold tolerance in comparison to managed honey bees.

University of California, San Diego January 2021 - August 2021
Undergraduate Student Researcher
Advisors: James Nieh, Amy Geffre
Assisted a graduate student in a research project focused on viral infections of feral and managed honey bees (*Apis mellifera*). The research included viral amplification and monitoring the survival of feral and managed honey bees in laboratory survival trials.

TEACHING EXPERIENCE

University of California, San Diego September 2019 - August 2022
Lead 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

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

Entomological Society of America July 2023
Graduate Student Member
Animal Behavior Society April 2022
Graduate Student Member

MANUSCRIPTS IN PROGRESS

Leeds, A. & Nieh, J.C. "Feral honey bees (*Apis mellifera*) exhibit a greater thermal tolerance breadth than managed honey bees in San Diego, California." *In prep.*

PRESENTATIONS

Heat and cold tolerance of feral and managed honey bees (*Apis mellifera*) in San Diego, California.
Paper 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 mentored: Katrina Saam (UC San Diego)

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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