

Jacob E. Herschberger

Ph.D. Student and Research Assistant • University of Florida

Department of Entomology and Nematology • EYN 2128

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Education

- Ph.D. *University of Florida*, Entomology and Nematology, Gainesville, FL 2022-present
Dissertation “Plant chemical defense optimization across latitude gradients”
Advisor: Dr. Phil Hahn
- M.S. *The University of Alabama*, Biological Sciences, Tuscaloosa, AL 2022
Thesis: “Neighboring plants and herbivory influence pollinator attraction”
Advisor: Dr. Monica Kersch-Becker
- B.S. *Millersville University of Pennsylvania*, Biology Department, Millersville, PA 2019
Senior project: “Plant fitness and insect-feeding choice in response to induced herbivory”
Advisors: Drs. John Wallace and Christopher Stieha

Research Experience

- Plant-herbivore-pollinator interactions- University of Florida August 2022-present
Plant-pollinator interactions- The University of Alabama January 2020-August 2022
Plant-herbivore interactions- Millersville University May 2018-May 2019

Teaching Experience

- ENY 3005L/5006L: Principles of Entomology Lab, *University of Florida* Fall 2023-Present
BSC 386: General Ecology Lab, *University of Alabama* Fall 2021
BSC 115: Laboratory Biology I, *University of Alabama* Summer & Fall 2020
BSC 117: Laboratory Biology II, *University of Alabama* Spring 2020 & Spring 2021

Research skills/Knowledge

Research grant writing. Constructing field experimental designs and protocols. Dynamic headspace VOC collection in field experiments. Quantitative and qualitative chemical analysis with GC-MS. R analysis, data manipulation, and data representation. Some multivariate analysis such as principal component analysis and non-metric multidimensional scaling in R. Creating general linearized models and testing them in R-stats.

Grants and Fellowships

- Grinter Fellowship, *University of Florida* (\$4000/year) Fall 2022-present
Travel grant award, *Ecological Society of America Conference* (\$350) Fall 2023
Conference fee award, *Gordon Research Conference* (\$435) Spring 2023
Grinter Fellowship, *University of Florida* (\$4000/year) Fall 2022-present
Fall 2021 Research & Conference Funding, *University of Alabama* (\$655) Fall 2021
Tanglewood Research Award, *University of Alabama* (\$2000) Summer 2021
Tanglewood Fellowship, *University of Alabama* (\$4941) Summer 2021
Entomology society of America conference fees, *University of Alabama* (\$47) Fall 2020

Conference Attendance

- North Florida Research & Education Center- Quincy FL April 2024
Entomological Society of America (Southeastern Branch)- Augusta, GA March 2024
Ecological Society of America- Portland, OR August 2023

Gorden, Plant-Herbivore Interactions- Ventura CA	March 2023
Entomological Society of America- Denver, CO	November 2021
Entomological Society of America-Virtual	November 2020
The Ecology Society of America Annual Meeting-Virtual	August 2020
Native Plants in the Landscape Conference- Millersville, PA	June 2019
Commonwealth of Pennsylvania University Biologists- Edinboro, PA	April 2019
The Watershed Congress Along the Schuylkill River- Pottstown, PA	March 2019
Entomological Society of Pennsylvania- Millersville, PA	November 2018

Professional Experience

Teaching Assistant- University of Florida	Fall 2023-Present
Research Assistant- University of Florida	Fall 2022-Present
Teaching Assistant- University of Alabama	Spring 2020-Summer 2022
Land Steward- Lancaster County Conservancy	Summer 2017, 2018, & 2019
Interpretive Ranger- Lancaster County Conservancy	Summer 2018 & 2019
Math and Science Tutor- HACC	August 2016-May 2019

Service Experience

Undergraduate Research Judge-The University of Alabama	April 2022
Conference Session Moderator-Entomological Society of America	November 2020
Stream Testing Volunteer- Water Quality Volunteer Coalition	October 2017-November 2019
Campus Apiary Manager- Millersville University	June 2017-June 2019
Conference Volunteer- Entomological Society of Pennsylvania	November 2018

Awards

Outstanding Biology Student	Spring 2019
Participation in Student Research- Millersville University	2018-2019
Dean's List- Millersville University	Spring 2018
Dean's List- HACC	2014-2015 & Spring 2016

References

1. **Dr. Phil Hahn**
Assistant Professor, Department of Entomology and Nematology at University of Florida
Contact: (352) 273-3960 or hahnp@ufl.edu
Professional Relationship: Dr. Han supervised my research on plant chemical defense optimization across latitudinal gradients.
2. **Dr. Monica F. Kersch-Becker**
Assistant Professor, Department of Biological Sciences at The University of Alabama
Contact: (205)-242-8996 or mfkerschbecker@ua.edu
Professional Relationship: Dr. Kersch-Becker supervised my research on the effects of neighboring plants and herbivory on pollinator attraction via volatile organic compounds.
2. **Dr. Christopher Stieha**
Assistant Professor, Department of Biology at Millersville University
Contact: (717)-871-4081 or christopher.stieha@millersville.edu
Professional Relationship: Dr. Stieha supervised my research on plant fitness and insect-feeding choice in response to induced herbivory.