

Marielle Hansel Friedman

PHD CANDIDATE · DEPARTMENT OF ENTOMOLOGY & NEMATOLOGY

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Education

University of California, Davis

PHD ENTOMOLOGY

Davis, CA

September 2022 - Present

- Advisors: Dr. Emily Meineke & Dr. Paul Pratt (Retired, Research Leader, USDA-ARS, Invasive Species and Pollinator Health Unit)
- GPA: 4.0

University of Oregon

B.S. BIOLOGY

Eugene, OR

2011 - 2015

Professional Experience

- 2019-2022 **Biological Science Technician**, U.S. Department of Agriculture-Agricultural Research Service, Invasive Species and Pollinator Health Unit
- 2014-2015 **Research Assistant**, Cresko Lab, Institute of Ecology and Evolution, University of Oregon
- 2025 **Graduate Teaching Assistant**, Plant Sciences, University of California, Davis

Publications

PUBLISHED

Marielle S. Hansel Friedman, Angelica M. Reddy, Paul D. Pratt, Brenda J. Grewell, Nathan E. Harms, Ximena Ciblis-Stewart, Guillermo Cabrera Walsh, M. Cristina Hernandez, Ana Falthausen. 2025. Life history and host range characteristics of *Paracles azollae* Berg, 1877 (Lepidoptera: Erebididae), an herbivore considered for biological control of invasive species of *Ludwigia* L. (Onagraceae) in the United States. The Pan-Pacific Entomologist, 101(3): 243-255.

Amy DaSilva, Angelica M. Reddy, Paul D. Pratt, **Marielle S. Hansel Friedman**, Brenda J. Grewell, Nathan E. Harms, Ximena Ciblis-Stewart, Guillermo Cabrera Walsh, Ana Falthausen, M. Lourdes Chamorro. 2022. Biology of Immature Stages and Host Range Characteristics of *Sudauleutes bosqi* (Coleoptera: Curculionidae), a Candidate Biological Control Agent of Exotic *Ludwigia* spp. in the USA. Florida Entomologist, 105(3): 243-249.

IN REVIEW

Vivian C.H. Wu, Bhargavi Rane, Alison Lacombe, **Marielle S. Hansel Friedman**, Paul D. Pratt. Navel Orangeworm (NOW) development response to gaseous chlorine dioxide treatments. Journal of Stored Products Research.

IN PREP

Marielle S. Hansel Friedman, Alison E. L. Colwell, Elizeth Cinto Mejia, Grace M. Horne, Ian S. Pearse, Emily K. Meineke. Assessing herbivory change in observational and herbarium-based datasets.

Awards, Fellowships, & Grants

- 2018-2019 **Energy & Environmental Fellow**, Strategic Energy Innovations, Marin County Office of Education
- 2025 **Student Competition for the President's Prize, Graduate Poster: Plant-Insect Ecosystems, Community Ecology, 2nd place**. Entomological Society of America

Presentations

INVITED TALKS

November 2025. **Marielle S. Hansel Friedman**. Illuminating Complexity: How artificial light at night influences insect richness and abundance across a vehicle pollution gradient. Insect Biodiversity in Urban Landscapes Symposium, Entomological Society of America, Portland, OR.

PRESENTATIONS

November 2025. **Marielle S. Hansel Friedman** Evaluating effects of artificial light at night (ALAN) on biological control agents of yellow star-thistle (*Centaurea solstitialis*) in California. Oral Presentation: Lightning Talk, California Invasive Plant Council Symposium, Ventura, CA.

November 2025. **Marielle S. Hansel Friedman**. Light and Exhaust: Interactive effects of artificial light at night and vehicle pollution on insect richness and abundance. Graduate Poster Competition: P-IE, Community Ecology, 2nd place, Entomological Society of America, Portland, OR.

November 2025. **Marielle S. Hansel Friedman**. Entomology Outreach on Parade! Bridging Institutions to Share Innovations in Student-Driven Outreach. Workshop Panelist: Entomological Society of America, Portland, OR.

May 2025. **Marielle S. Hansel Friedman**. Illuminating Complexity: How artificial light at night influences insect richness across a vehicle pollution gradient. Invited Oral presentation: Status of Insects RCN's Light Pollution Working Group Light Pollution as a Driver of Insect Declines International Symposium, University of Exeter's Penryn Campus, Cornwall, UK.

November 2024. **Marielle S. Hansel Friedman**. Herbarium specimens faithfully capture changing plant-insect interactions over years. Oral presentation: Entomological Society of America, Phoenix, AZ.

May 2019. **Marielle S. Hansel Friedman**. Sustainability and the zero-waste movement. Oral presentation: Skyline Community College, San Bruno, CA.

Teaching Experience

Fall 2025	ENH 100: Urban Forests are Nature-Based Solutions , Teaching Assistant	UC Davis
Spring 2025	ENT 135: Introduction to Biological Control , Guest Lecturer	UC Davis
Winter 2024	ENT 10: Natural History of Insects , Guest Lecturer and Exam Committee Member	UC Davis

Service & Professional Development

SERVICE AND OUTREACH

July 2025	Find Out Farms: Nature Nerds , Guest Presenter	Sacramento, CA
2024-Present	Light Pollution Working Group-Status of Insects: An International Research Coordination Network , Member	
2023-Present	California Invasive Plant Council-Student Section , Secretary	
2024-2025	Entomology Graduate Student Association , Secretary	Davis, CA
2023-2024	Entomology Graduate Student Association , Graduate Student Representative	Davis, CA
2023-2024	UC Davis, Department of Entomology & Nematology , Diversity, Equity, Inclusion & Belonging Committee Representative	Davis, CA
2023-Present	UC Davis Picnic Day , Graduate Student Volunteer	Davis, CA
2023	California Invasive Plant Council Annual Symposium , Volunteer	
2016-2017	Oregon Museum of Science and Industry (OMSI) , Volunteer	Portland, OR
2016-2017	Mad Science , Afterschool Instructor	Portland, OR

SKILLS

Computer: LaTeX, R, ArcGIS

PADI certified: Open Water Diver

EXTRACURRICULARS

Art: Small business owner of Elytra Jewelry. Unique, colorful, lightweight jewelry made from ethically sourced insect wings and clay.

Designed entomology stickers and t-shirts for the UC Davis Entomology Graduate Student Association.

PROFESSIONAL MEMBERSHIPS

Entomological Society of America

Phi Kappa Phi Honor Society

California Invasive Plant Council

Xerces Society