Marielle Hansel Friedman

PhD Candidate · Department of Entomology & Nematology

University of California, Davis, One Shields Avenue, Davis, CA 95616

mshanselfriedman@ucdavis.edu | www.mariellehanselfriedman.com | linkedin.com/in/marielle-hansel-friedman

Education

University of California, Davis — *Davis, CA*

PhD Entomology — *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 — *Eugene, OR*

B.S. Biology — *2011 - 2015*

Professional Experience

2026	**Graduate Teaching Assistant**, Entomology and Nematology, University of California, Davis
2025	**Graduate Teaching Assistant**, Plant Sciences, University of California, Davis
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

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 Falthauser. 2025. Life history and host range characteristics of *Paracles azollae* Berg, 1877 (Lepidoptera: Erebidae), 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 Falthauser, 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

Marielle S. Hansel Friedman, Elizeth Cinto Mejía, Alison E. L. Colwell, Grace M. Horne, Ian S. Pearse, Richard Karban, Emily K. Meineke. Herbarium specimens capture variation in herbivory over more than a decade in a common garden.

In Prep

Marielle S. Hansel Friedman, Paul D. Pratt, Jaxi E. L. H. Cohen, Emily K. Meineke. Artificial light at night reduces host colonization by weed biological control agents in unmowed habitats.

Marielle S. Hansel Friedman, Elizeth Cinto Mejía, Emily K. Meineke. Interactive effects of artificial light at night and vehicle emissions on urban insect communities.

Awards, Fellowships, & Grants

August 2026	**Love of Learning Award**, The Honor Society of Phi Kappa Phi	*$1000*
July 2026	**McBeth Memorial Research Award**, Entomology and Nematology Graduate Program, UC Davis	*$3000*
November 2025	**Student Talks Contest, Lightning Talks, 1st place (tie)**, California Invasive Plant Council	*$100*
November 2025	**Student Competition for the President's Prize, Graduate Poster: Plant-Insect Ecosystems, Community Ecology, 2nd place**, Entomological Society of America	
July 2025	**Jastro Shields Research Award**, Entomology and Nematology Graduate Program, UC Davis	*$2200*
August 2024	**Jastro Shields Research Award**, Entomology and Nematology Graduate Program, UC Davis	*$250*
August 2024	**McBeth Memorial Research Award**, Entomology and Nematology Graduate Program, UC Davis	*$2500*
Dec 2018–Jul 2019	**Energy & Environmental Fellow**, Strategic Energy Innovations, Marin County Office of Education	

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.

May 2025. **Marielle S. Hansel Friedman**. Illuminating Complexity: How artificial light at night influences insect richness across a vehicle pollution gradient. 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.

Presentations

November 2026. **Marielle S. Hansel Friedman** Artificial light at night reduces colonization by biological control agents of yellow starthitstle (*Centaurea solstitialis*) at unmowed sites in California. Oral Presentation: P-IE, Ecology and Conservation, Entomological Society of America, Columbus, OH.

July 2026. **Marielle S. Hansel Friedman** Interactive effects of artificial light at night and vehicle pollution on urban insect biodiversity. Oral Presentation: Urban Ecosystems, Ecological Society of America, Salt Lake City, UT.

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.

November 2024. **Marielle S. Hansel Friedman**. Herbarium specimens faithfully capture changing plant-insect interactions over years. Oral presentation: P-IE, Climate Change, 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 2026	**ENT 001: Art, Science, and the World of Insects**, Teaching Assistant	*UC Davis*
Spring 2026	**ENT 001: Art, Science, and the World of Insects**, Teaching Assistant	*UC Davis*
Winter 2026	**ENT 010: Natural History of Insects**, Guest Lecturer and Homework Committee Member	*UC Davis*
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

May 2026	**The UC Davis Bohart Museum of Entomology, Open House: "Buzz Words: Insects in Literature"**, Co-organizer	*Davis, CA*
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

American Heart Association: Certified Heartsaver–First Aid, CPR, AED

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
Pacific Coast Entomological Society
Ecological Society of America
Insect Welfare Research Society