Evan Hilpman (he/him)

15-Oct-2023

Oberlin College
Science Center A139
119 Woodland St.
Oberlin, OH 44074-1097
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EDUCATION

PhD, Botany. Washington State University. 2022. Dr Jeremiah Busch, advisor

BA, Biology. Colorado College. 2010. Dr Sylvia “Tass” Kelso, advisor

RESEARCH INTERESTS

Community ecology
Pollination biology
Trait evolution
Plant-insect interactions
Volatile (scent) production
Chemical ecology

TEACHING EXPERIENCE

Visiting Assistant Professor – Oberlin College & Conservatory, 2023-present

Genetics, Evolution, and Ecology. Fall 2023. 200-level course with laboratory & writing components. 4 credits. Instructor of lecture and laboratory.

Lecturer – Washington State University, School of Biological Sciences. 2022-2023

Evolution & Society. Spring 2023. 400-level capstone course with major writing components. 3 credits. Instructor of record.

General Ecology. Fall 2022. 300-level course with laboratory & writing components. 4 credits. Instructor of record.

Teaching Assistant – Washington State University, 2015-2022

Principles of Organic Evolution. 2018-2022**.** Supervisors: Drs Jeremiah Busch & Mark Dybdahl. Laboratory instruction and substitute/guest lecturer.

General Biology. (for non-majors) 2021-2022. Supervisor: Dr Michael Jorgensen. Laboratory instruction.

Introductory Botany. 2019-2020. Supervisor: Dr Andrew McCubbin. Laboratory instruction.

Introductory Biology: Organismal Biology. 2015-2017. Drs Lisa Carloye, Asaph Cousins, Hanjo Hellmann, & Raymond Lee. Laboratory instruction.

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SELECTED PROFESSIONAL EXPERIENCE

University of South Carolina, Columbia, SC
2023. Statistical Contractor. Dr Eric LoPresti. Dept of Biological Sciences

Chicago Botanic Garden, Glencoe, IL
2008-2015. Field Assistant, Research Technician, Conservation & Land Management Program Assistant. Drs Krissa Skogen, Jeremie Fant, and Dan Larkin. Dept of Plant Biology and Conservation

Bureau of Land Management, Carson City, NV
2013-2014. Conservation & Land Management Intern. Dr Dean Tonenna. Carson City Field Office

Cornell University, Ithaca, NY
2008. Field Assistant. Drs Robert Raguso & Rainee Kaczorowski. Dept of Neurobiology & Behavior

Colorado College, Colorado Springs, CO
2007-2008. Herbarium Assistant. Dr Sylvia “Tass” Kelso. Dept of Organismal Biology & Ecology

University of Missouri, Columbia, MO
2007. Field Assistant. Dr Candace Galen. Dept of Biological Sciences

PUBLICATIONS

Hilpman, E. T., Raguso, R. A., & Busch, J. W. (In Review). Distinct components of floral scent and display predict pollination and seed predation in Castilleja sessiliflora.

Skogen, K. A., Jogesh, T., **Hilpman, E. T.**, Todd, S. L., & Raguso, R. A. (2022). Extensive population-level sampling reveals clinal variation in (R)-(−)-linalool produced by the flowers of an endemic evening primrose, Oenothera harringtonii. Phytochemistry, 200, 113185.

Hilpman, E. T., & Busch, J. W. (2021). Floral traits differentiate pollination syndromes and species but fail to predict the identity of floral visitors to Castilleja. American Journal of Botany, 108, 2150–2161.

Skogen, K. A., Overson, R. P., **Hilpman, E. T.**, & Fant, J. B. (2019). Hawkmoth Pollination Facilitates Long-Distance Pollen Dispersal and Reduces Isolation Across a Gradient of Land-Use Change. Annals of the Missouri Botanical Garden, 104, 495–511.

Skogen, K. A., Jogesh, T., **Hilpman, E. T.**, Todd, S. L., Rhodes, M. K., Still, S. M., & Fant, J. B. (2016). Land-use change has no detectable effect on reproduction of a disturbance-adapted, hawkmoth-pollinated plant species. American Journal of Botany, 103, 1950–1963.

Skogen, K. A., **Hilpman, E. T.**, Todd, S. L., & Fant, J. B. (2012). Microsatellite primers in Oenothera harringtonii (Onagraceae), an annual endemic to the shortgrass prairie of Colorado. American Journal of Botany, 99, e313–e316.

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MANUSCRIPTS IN PREPARATION:

Hilpman, E. T., Raguso, R. A., & Busch, J. W. Pollinators and seed predators mediate selection of floral traits in Castilleja sessiliflora.

Skogen, K. A, **Hilpman, E. T.**, Todd, S. L., & Fant, J. B. Effects of development and annual fluctuation of insect and vegetation communities in shortgrass prairies of southeastern Colorado.

Hilpman, E. T., M. Freedman, E. F. LoPresti, C. Edwards, N. Douglas, H. Flores, S. Nosratinia, H. Ochoterena, S. Ramirez, M. J. Moore & M. G. Weber. Repeated evolution of autogamy correlates with reduced floral volatile and morphological signals in a clade of Nyctaginaceae.

CONTRIBUTED PRESENTATIONS

Hilpman, E. T., M. Freedman, E. F. LoPresti, C. Edwards, N. Douglas, H. Flores, S. Nosratinia, H. Ochoterena, S. Ramirez, M. J. Moore & M. G. Weber. (2023). Floral scent differences within Nyctaginaceae correlate with shifts in mating system and pollination. Oral presentation. Botanical Society of America annual meeting.

Hilpman, E. T., Raguso, R. A., & Busch, J. W. (2023). Distinct components of floral scent and display predict pollination and seed predation in Castilleja sessiliflora. Oral presentation. Botanical Society of America annual meeting.

Hilpman, E. T., & Busch, J. W. (2022). Floral traits in *Castilleja*: how morphological traits and volatile organic compound emissions differentiate species, affect insect interactions, and influence plant fitness. Oral presentation. Washington State University.

Hilpman, E. T., & Busch, J. W. (2022). Distinct components of floral scent and display predict pollination and seed predation in *Castilleja sessiliflora*. Poster presentation. School of Biological Sciences Research Symposium at Washington State University.

Hilpman, E. T., & Busch, J. W. (2021). Floral traits differentiate pollination syndromes and taxa but fail to predict the identity of floral visitors to Castilleja. Oral presentation. Botanical Society of America annual meeting.

Hilpman, E. T., & Busch, J. W. (2019). The proclivities of plants, pollinators and parasites: pollinator- and parasite- mediated selection on plant size. Poster presentation. School of Biological Sciences Research Symposium at Washington State University.

Hilpman, E. T., & Busch, J. W. (2016). Floral VOCs: making scents of a volatile situation. Poster presentation. EVO-WIBO evolutionary biologists of the Pacific Northwest.

Hilpman, E. T., & Busch, J. W. (2016). Floral VOCs: making scents of a volatile situation. Poster presentation. School of Biological Sciences Research Symposium at Washington State University.

Skogen, K., Raguso, R., Fant, J., & **Hilpman, E.T**. (2009). Hawkmoth pollination of Oenothera in a fragmented landscape: variation in scent, floral morphology, nectar and neutral genetic markers. Oral presentation. Botanical Society of America annual meeting.

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OUTREACH & SERVICE

Outreach to The Colville Indian Reservation. 2022, 2023. Assumed leadership of an outreach project abandoned in 2019. Presentations and guided activities encouraging continued education and exploring ecological and evolutionary topics for students grades 9-12 at Lake Roosevelt Jr/Sr High School.

DEI Book Club. 2022, 2023. Organized a book club to read “Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge, and the Teachings of Plants”. Initiative to increase social cohesion in the department and discuss DEI topics, especially related to indigenous philosophies.

School of Biological Sciences DEI committee. 2022, 2023. Serving on a committee to promote diversity, equity, and inclusion within the biological sciences.

School of Biological Sciences Open House (WSU). 2015, 2016, 2017, 2018, 2019. Annual indoor outreach event for engaging young minds with science related activities. My activities: guided greenhouse tours, exploring taxidermy collections, live entomology handing (hissing cockroaches and tarantulas).

School of Biological Sciences Outdoor Fun Day (WSU). 2016, 2017, 2018, 2019. Annual outdoor outreach event for engaging young minds with science related activities. My activities: plant and pollinator identification walks, mist netting and live bird handling, bird identification.

Ecology and Evolution Outreach to The Colville Indian Reservation. 2019. Presentations and guided activities exploring ecology and evolution for students grades 7-12 at Lake Roosevelt Jr/Sr High School. Follow-up visits and planned ecology hike were cancelled due to COVID.

Science Saturday Macroinvertebrates: Who Lives in This Water. 2019. Interactive exploration of local water samples and the macro/microscopic life within.

Teton County Weed Pull. 2019. Communication and active mitigation of invasive species impact. Engaging the local community in land stewardship.

Idaho Native Plant Society Botanical Foray. 2016. Collection and identification of plant taxa in the Challis National Forest for local herbaria.

Lake Forest College Research Presentation. 2014. Symposium for REU students to present their research findings to peers, advisors, and public.

Truckee River Environmental Education. 2013. Guided elementary and middle school students in plant identification, conservation and ecological activities.

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MENTORING

16 Total – 10 underrepresented in STEM

2023: Blake Logan. Oberlin College and Conservatory. Research Assistant.
2023: Kyle Statley. Washington State University. Research Assistant.
2020-2021: Nic Ripplinger. Washington State University. Research Assistant.
2019: Nolan Hansen. Washington State University. Research Assistant.
2018: Emma McGinty. Washington State University. Research Assistant.
2017-2018: Jean O'Donnell. Washington State University. Research Assistant.
2017-2018: Baradhwaj Balraj. Washington State University. Research Assistant.
2017: Elsa Ramirez. Washington State University. Research Assistant.
2017: Cassie McMillan-Boyce. Washington State University. Research Assistant.
2014-2015: Emily Lewis. Northwestern University. MS Student.
2014: Colton Laffey. Lake Forest College. REU Student.
2014: Miriana Youkhana. Lake Forest College. REU Student.
2012: Claire Milsted. Carleton College. REU Student.
2011-2012: Jill M. St. Martin de Porres High School. Research Intern.
2011: Kari Spiegelhalter. Lawrence University. REU Student.
2010-2011: Nicole Baylon, St. Martin de Porres High School. Research Intern.

TRAININGS & CERTIFICATIONS

Community and Equity in Higher Education Certificate
- Community & Equity 101: Defining and Cultivating Inclusive Excellence
- Community & Equity 102: Who are You? Fostering Critical Self Awareness to Engage Across Difference
- Community & Equity 103: Moving From Equality Towards Equity (scheduled)
- Disability Allyship, Advocacy, and Activism
- LGBTQ+ Ally Training
- Supporting our Veterans and Military Affiliated Community (scheduled)
- UndocuAlly Training
- Teamwork and Culture
- Inclusive Pedagogy
- Building a Community of Respect

Discrimination, Sexual Harassment, and Sexual Misconduct Prevention Training
Ethics in Public Service Training
Cyber Security Awareness Training
Hazing Prevention Training
ELEVATE (Engage Learners. Enhance Voices. Advance Teaching Excellence.)

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ESRI ArcGIS 10 Desktop course
Army Corps of Engineers Wetland Delineation Training Program
California Native Plant Society Vegetative Rapid Assessment and Relevé workshop
BLM Advanced ATV safety and operation training
NAUI Open Water SCUBA Certification

HONORS & AWARDS

Betty Higinbotham Award. 2017-2021
Aase Botany Fellowship in honor of Andrew and Bertine Aase. 2015-2016
Graduate Recruitment Fellowship. 2015
Colorado College President's List. 2006-2010
Enderson Award in Conservation Biology. 2010
Venture Grant. 2009