
MICHELLE A. PHAM

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Education

Ph.D. Environmental Science 2020 – present
The Ohio State University (OSU) Columbus, OH
Adviser: Dr. Mary Gardiner

B.S. Environmental Science 2016 – 2020
Minor in Geography and Environmental Studies Los Angeles, CA
University of California, Los Angeles (UCLA)
Cum Laude

Honors & Awards

April 2022 1st Place, OSU College of Food, Agricultural, and Environmental Sciences Annual Research Poster Competition, "Reclaiming Urban Vacant Land to Support Urban Bee Habitat," \$500

October 2021 OSU Department of Entomology Root Award for Urban Research, \$375

February 2020 OSU Environmental Sciences Graduate Program (ESGP) Travel Award, \$500

February 2020 Oregon State University Integrative Biology Recruitment Travel Award, \$500

August 2019 Best Poster Presentation, Kettering University UPIR-REU, "Investigating the Comparative Anatomy of Lithospermum Through an Evolutionary Lens"

May 2019 True Bruins Respect, Accountability, Integrity, Service, and Excellence (RAISE) Recognition

April 2019 National Residence Hall Honorary Resident Assistant of the Month

Funding & Grants

June 2022 National Institute of Food and Agriculture AFRI Pollinator Health Travel Award, \$1,800

April 2022 National Science Foundation Graduate Research Fellowships Program, \$138,000

- March 2022 Pham, M.A., Gardiner, M.M. OSU College of Food, Agriculture, and Environmental Sciences (CFAES) Research & Graduate Education Internal Grants Program. "Municipal investment in urban greening to support healthy bee communities," \$5,000
- May 2021 Fyie, L.R., Shepard, C.A., Pham, M.A., DeGrand, J., Gardiner, M.M., Meuti, M.E. OSU Sustainability Institute. "Using The Ohio State University Campus to Determine Impact of Urban Heat Islands on Mosquito Seasonality", \$4,524
- May 2020 Botanical Society of America PLANTS Grant, \$500
- May 2020 OSU ESGP Fay Fellowship, \$25,300
- March 2020 OSU CFAES Diversity Associateship, \$25,300
- March 2020 Rocky Mountain Biological Laboratory REU Travel Grant, \$2,000
- June 2019 Kettering University UPIR-REU Fellowship, \$4,400

Presentations

Invited Presentations

1. **Pham, M.A.**, Shepard C.A. "Sampling Bees in the Field" presentation to Columbus residents. The Bee Collective; August 13, 2022.
2. **Pham, M.A.** Alumni panel for UCLA undergraduate students. UCLA, Sustainable LA Grand Challenge Undergraduate Research Scholars Program; October 6, 2021; virtual presentation.
3. **Pham, M.A.**, Shepard C.A. "Native Bees in Your Backyard" presentation to Columbus residents. The Bee Collective; July 24, 2021.
4. **Pham, M.A.** "Postgraduate Careers and Pathways" alumni panel for UCLA undergraduate students. UCLA, Sustainable LA Grand Challenge Undergraduate Research Scholars Program; April 28, 2021; virtual presentation.
5. **Pham, M.A.** "Group Research Collaboration" alumni panel for UCLA undergraduate students. UCLA, Sustainable LA Grand Challenge Undergraduate Research Scholars Program; January 6, 2021; virtual presentation.
6. **Pham, M.A.** Symposium presentation to Fay Fellowship donors. OSU ESGP; July 22, 2020; virtual presentation.

Submitted Presentations

1. **Pham, M.A.**, Spring, M.R., Sivakoff, F.S., Gardiner M.M. (2022). Reclaiming vacant land to support urban bee habitat. OSU College of Food, Agricultural, and Environmental Sciences Graduate Poster Competition, 1st place. April 12, 2022; Columbus, OH.

2. **Pham, M.A.**, Scott S.B., Fyie L.R., Gardiner M.M. (2021). The potential of sustainable landscaping programs to encourage conservation in residential ecosystems. Student Competition 10 Minute Paper. Entomological Society of America Annual Meeting. November 1, 2021; Denver, CO.
3. **Pham, M.A.**, Gardiner M.M. (2020). Exploring community backyards as spaces for human and insect wellbeing. Ohio State University Environmental Sciences Graduate Program; November 6, 2020; virtual presentation.
4. **Pham, M.A.**, Cohen J.I., Ryan G.L. (2020). Investigating the comparative anatomy of *Lithospermum* through an evolutionary lens. Botanical Society of America Annual Meeting; July 22, 2020; virtual poster.
5. **Pham, M.A.**, Cohen J.I., Ryan G.L. (2019). Investigating the comparative anatomy of *Lithospermum* through an evolutionary lens. Kettering University UPIR-REU Research Symposium; August 16, 2019; Flint, MI.
6. **Pham, M.A.**, Gonzalez S.R., Ong P.M. (2019). Designing pocket parks to promote community and recreation engagement in disadvantaged communities. UCLA Undergraduate Research Day; May 21, 2019; Los Angeles, CA.

Publications

1. **Pham M.A.**, Scott S.B., Fyie L.R., Gardiner M.M. "A review of sustainable landscaping programs in the United States and their potential to encourage conservation and support ecosystem services." *Urban Ecosystems*, accepted April 27, 2022.

Research and Professional Experience

Graduate Research Fellow, OSU **August 2020 – present**
Dr. Mary Gardiner's Urban Insect Ecology Laboratory Columbus, OH

- Conduct dissertation research in partnership with Community Backyards, a municipal conservation rebate program, to assess how their investment in native plantings for residential landscapes benefits bee health

Project Manager, UCLA **August 2019 – June 2020**
Institute of the Environment and Sustainability Los Angeles, CA

- Conducted research in collaboration with Seed LA, a coalition of non-profits, as part of an interdisciplinary capstone team led by postdoctoral researcher Dr. Andrew Kleinhesselink
- Modeled species distributions for 12 native plant species using bioclimatic and geographic datasets and filtered suitable habitat using land use data to identify potential areas to establish urban parks seeded with native plants

Undergraduate Research Fellow, Kettering University June 2019 – August 2019
Dr. Jim Cohen's Plant Ecology Laboratory Flint, MI

- Prepared wax-embedded sections of *Lithospermum* flowers, stained them to identify cellular structure, and imaged them using confocal and light microscopy
- Related observed differences in floral anatomy and morphology to evolutionary hypotheses on plant adaptations that facilitate pollination

Undergraduate Research Scholar, UCLA September 2018 – June 2019
Center for Neighborhood Knowledge (CNK) Los Angeles, CA

- Compared the amenities of Los Angeles 50 Parks Initiative to inform development of the conservation initiative in low-income urban neighborhoods
- Contributed to CNK's report to the National Coalition for Asian Pacific American Community Development on barriers to homeownership across Asian subgroups

Professional Affiliations

February 2022 – present	International Union for the Study of Social Insects, North American Section
August 2021 – present	Entomological Society of America, North Central Branch
September 2020 – present	Ohio State University Entomology Graduate Student Association
August 2020 – present	Ohio State University Environmental Sciences Graduate Program (ESGP) Student Association
July 2020 – present	Botanical Society of America

Teaching & Mentoring Experience

Project Consultant, UCLA August 2019 – June 2020
Sustainable LA Grand Challenge Los Angeles, CA

- Led an interdisciplinary team of undergraduate researchers in conducting cost-benefit analysis of different pervious surfaces considered for implementation at the La Kretz Garden Pavilion
- Collaborated with architects, researchers, and urban planners to increase habitat connectivity and sustainably manage stormwater runoff through the installation of pervious pavers

Lead Resident Assistant, UCLA September 2017 – May 2020
UCLA Residential Life Los Angeles, CA

- Mentored Resident Assistants on strategies for cultivating a diverse and inclusive residential community

- Organized interactive programs to build community and discuss important social issues such as climate change, sexual violence, and social justice
- Assisted over 300 student residents by mediating conflict, counseling students regarding academic and personal issues, and providing immediate assistance to students in crisis

Co-Director, Sustainability Talks, UCLA **September 2018 – December 2018**
Institute of the Environment and Sustainability Los Angeles, CA

- Facilitated an annual seminar series (Environment 185A) that introduces undergraduate students to careers in sustainability
- Designed a lesson plan that provides a thorough analysis and application of the principles of sustainability through a series of lectures and guest presentations
- Hosted guest speakers who have done extensive interdisciplinary work relating to sustainability, including faculty members, entrepreneurs, and policy makers

Academic Service

2021 – 2022	OSU ESGP Graduate Studies Committee, Graduate Student Representative
2021 – 2022	OSU CFAES Diversity, Equity, and Inclusion Action Council, Graduate Student Representative
2020 – 2022	OSU CFAES Graduate Student Advisory Council, Executive Board Member
2020 – 2022	OSU ESGP Student Association, Executive Board Member

Professional Skills and Trainings

Adobe Illustrator	ESRI MOOC Cartography Certificate
Adobe InDesign	FERPA Training
CITI Training	Intergroup Relations Training
CANRA Training	QPR Training

References

Dr. Mary Gardiner, Associate Professor of Entomology
Ohio State University, Columbus, OH • gardiner.29@osu.edu

Dr. Rebecca Shipe, Associate Adjunct Professor of Ecology and Evolutionary Biology
University of California, Los Angeles, Los Angeles, CA • rshipe@ucla.edu

Dr. Jim Cohen, Assistant Professor of Botany and Plant Ecology
Weber State University, Ogden, UT • jamescohen@weber.edu

