

Maureen L. Page

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CURRENT POSITION

Cornell University

June 10, 2022 - present

USDA NIFA Postdoctoral Fellow

Address: 4144 Comstock Hall, Ithaca, NY, 14853

EDUCATION

University of California, Davis

June 9, 2022

Ph.D. Entomology

University of California, Davis

June 13, 2019

M.S. Entomology

Scripps College

May 1, 2016

B.A. Biology

PEER-REVIEWED PUBLICATIONS

** denotes undergraduate co-authors

8. Page, M.L. & N.M. Williams. 2023. **Evidence of exploitative competition between honey bees and native bees in two California landscapes.** *Journal of Animal Ecology* 92: 1802–1814. <https://doi.org/10.1111/1365-2656.13973>

7. Page, M.L. & N.M. Williams. 2023. **Honey bee introductions displace native bees and decrease pollination of a native wildflower.** *Ecology* 104(2): e3939. <https://doi.org/10.1002/ecy.3939>

Press: Science Friday, American Bee Journal, Xerces Society Newsletter

6. Page, M.L., C.C. Nicholson, R.M. Brennan, **A.T. Britzman, J. Greer, J. Hemberger, H. Kahl, U. Muller, Y. Peng, N.M. Rosenberger, C. Stuligross, **L. Wang, L.H. Yang, & N.M. Williams. 2021. **A meta-analysis of single-visit pollination effectiveness comparing honeybees and other floral visitors.** *American Journal of Botany* 108: 1–12. doi.org/10.1002/ajb2.1764

Press: American Bee Journal

5. Mola, J.M., C. Stuligross, M.L. Page, D. Rutkowski, & N.M. Williams. 2021. **Impact of “non-lethal” tarsal clipping on bumble bees (*Bombus vosnesenskii*) may depend on queen stage and worker size.** *Journal of Insect Conservation* 25: 195–201. doi.org/10.1007/s10841-021-00297-9

4. Thomson, D.M. & M.L. Page. 2020. **The importance of competition between insect pollinators in the Anthropocene.** *Current Opinion in Insect Science* 38: 55 – 62. doi.org/10.1016/j.cois.2019.11.001

3. Williams, N.M., J.M. Mola, C. Stuligross, T. Harrison, M.L. Page, R.M. Brennan, N.M. Rosenberger, & M. Rundölf. 2019. **Fantastic bees and where to find them: locating the cryptic overwintering queens of a western bumble bee.** *Ecosphere* e02949. doi.org/10.1002/ecs2.2949
2. Page, M.L., J.L. Ison, A.L. Bewley, K.M. Holsinger, A.D. Kaul, K.E. Koch, K.M. Kolis, & S. Wagenius. 2019. **Pollinator effectiveness in a composite: a specialist bee pollinates more florets but does not move pollen farther than other visitors.** *American Journal of Botany* 106: 1487-98. doi.org/10.1002/ajb2.1383
1. LoPresti, E.F., J. Goidell, J.M. Mola, M.L. Page, C.D. Specht, C. Stuligross, M.G. Weber, N.M. Williams, & R. Karban. 2019. **A lever action hypothesis for pendulous hummingbird flowers: experimental evidence from a columbine.** *Annals of Botany* mcz134. doi.org/10.1093/aob/mcz134

MANUSCRIPTS IN REVIEW

- Page, M.L., J. Davis, S.K. Glasser, E.O. Kusi, S.E. Lindsay, E.C. McCormick, T.G. Mueller, W. Ng, M.S. Pinilla-Gallego, L. Valdes, J.I. Van Wyk, ** T.L.H. Weiss, R.E. Irwin, L.S. Adler, & S.H. McArt. **Mechanisms and consequences of plant-pollinator-pathogen interactions.** *Annual Review of Ecology, Evolution, and Systematics*.
- Buderi, A., M.L. Page, C.C. Nicholson, N.M. Williams, & M. Genung. **Big or hairy: Pollinator and plant traits interact to generate patterns of trait matching.** *Functional Ecology*.
- Page, M.L., J.S. Francis, U. Müller, & N.M. Williams. **Resource landscapes and honeybee competition impact nutritional quality of wild bee diets.** *Journal of Applied Ecology*.

ACADEMIC PRESENTATIONS AND CONFERENCES

- 2023 **Impact of honey bee competition on wild bee fitness**
 - *Entomological Society of America*
Resource availability and competition impact wild bee diet quality
 - *International Pollinator Conference*
- 2022 **Evidence of honey bee competition in two California landscapes**
 - *Entomological Society of America*
How do honey bee introductions impact pollination?
 - *International Union for the Study of Social Insects (* Invited Speaker *)*
Nectar refill rates influence floral resource competition risk assessment
 - *Honey bee Competition Workshop at Aarhus University, Denmark*
- 2021 **Optimizing wildflower plant mixes to support wild and managed bees**
 - *Entomological Society of America (* Student Competition Award *)*
- 2020 **Impacts of honey bee introductions on pollination of a Sierra wildflower**
 - *Ecological Society of America*
- 2019 **Can pollinator visit and pollen transport patterns predict pollination?**
 - *Pacific Branch of the Entomological Society*
- 2018 **Impacts of honey bee abundance on pollination of *E. californica***
 - *UC Davis Bee Symposium (* Student Competition Award *)*
- 2017 **Pollination of *E. angustifolia*: why are some insects more effective?**
 - *Ecological Society of America*

FELLOWSHIPS, GRANTS, AND AWARDS (\$464,800 TOTAL)

U.S. Department of Agriculture Postdoctoral Fellowship. 2023 - 2025. **\$219,900**

U.S. Department of Defense NDSEG Fellowship. 2018 - 2021. **\$171,800**

UC Davis, Graduate Scholars Fellowship. 2016 - 2017. **\$57,900**

UC Davis, Travel Grants. 2017 - 2019 and 2021. **\$2,200**

Vansell Scholarship Grant. 2018 and 2019. **\$5,160**

Davis Botanical Society Grant. 2017, 2018, and 2019. **\$4,500**

Duffey-Dingle Research Grant. 2018. **\$840**

Northern California Botanists Grant. 2017 and 2018. **\$2,000**

UC Davis, Entomology Teaching Award. 2017. **\$500**

SELECTED TEACHING EXPERIENCES

Lead Instructor, ENT 10 – Natural History of Insects Winter 2022
University of California, Davis

Another graduate student and I acted as lead instructors, designing exams and assignments and organizing lectures, grading, and student communication. The class is intended for non-science majors and introduces students to the diversity and importance of insects.

Lead Instructor, ENT / ECL 290 – Racial and Gendered Science Winter 2017
University of California, Davis

I conceptualized, designed, and co-led instruction for a graduate/undergraduate seminar where students explore strategies to foster diversity, equity, inclusion, and belonging in STEM.

Teaching Assistant, PLS 15 – Introduction to Sustainable Agriculture Fall 2021
University of California, Davis

Activities include collecting and interpreting data on pest populations on the student farm and designing sustainability rubrics which students use to assess local farms during in-person tours.

Teaching Assistant, BIS 2B – Principles of Ecology and Evolution Winter 2018
University of California, Davis

Students interact with living organisms and conduct mini-experiments that expand their understanding of fundamental concepts in ecology and evolution.

Teaching Assistant, ABI 50A – Animal Biology Fall 2017
University of California, Davis

Students learn about the scientific method by conducting self-designed experiments investigating the pollination ecology of *Epilobium canum*.

Seminar Organizer, ENT 290 – Meta-analysis in Insect Agroecology Winter 2020
University of California, Davis

I co-organized a graduate seminar where students collaboratively learn how to extract data from the scientific literature and analyze data using common meta-analytical techniques.

Seminar Organizer, ENT 298 – Methods in Insect Agroecology
University of California, Davis

Winter 2019

I co-organized a graduate seminar where students developed R workshops and paper discussions to collaboratively learn key skills in spatial and community data analysis.

PEDAGOGY WORKSHOPS AND MENTORSHIP

Research Mentor - 6 Students

2022 - 2024

Cornell University

One student was hired and supervised for summer research (40 hrs/week), one student collaborated with me on a Raspberry Pi bee monitoring project for her honors thesis, and four worked with me on independent REU projects. I am also currently leading a review paper for AREES which includes one undergraduate and six Ph.D. students as co-authors and collaborators.

Research Mentor - 9 Students

2017 - 2021

University of California, Davis

Two students were hired and supervised for summer research (40 hrs/week), five were mentored as interns (for research credit: 3 hrs/week), another two collaborated on one of my dissertation papers, and one worked with me on an independent project for her Animal Biology practicum.

Mentor, Mentorship Committee, and Co-organizer

2017 - 2021

Girls Outdoor Adventure in Leadership and Science (GOALS)

GOALS is a free program for high school students to learn science while developing leadership and outdoor skills. We intentionally recruit students from backgrounds that are underrepresented in STEM. I was on the mentorship committee and helped organize the 2021 program.

Undocu-Ally Educator Training

2018

Attended a UC Davis educator training aimed at discussing challenges faced by undocumented students and preparing educators to better serve and advocate for these students.

Demonstrated Excellence in Teaching Workshop

2017

Attended a six-week UC Davis Center of Educational Effectiveness workshop series called “Demonstrated Excellence: Scholarly Teaching Strategies to Maximize Student Learning”.

STAKEHOLDER COMMUNICATION

California Department of Fish and Wildlife

February 2024

Invited to provide written and oral comments on proposed apiary policy changes.

American Bee Journal

December 2021 & April 2023

Invited to help summarize my work on the importance of conserving native bee pollinators and impacts of honey bee competition via two magazine articles in this beekeeping trade journal.

USDA Forest Service

November 2022

Delivered project report summarizing research on impacts of honey bee competition.

Eastern Apicultural Society Annual Meeting

August 2022

Invited presentation discussing my honey bee competition research. The talk was well received and I was invited to give a similar presentation for a beekeeper association in Virginia.

MEDIA COVERAGE

2024	Bees Knees Podcast. Interview discussing native bee pollinators
2023	Xerces Society for Invertebrate Conservation. Wings Magazine National Public Radio. Science Friday American Bee Journal. ** Beekeeping magazine article
2022	Good Day Sacramento. News segment on annual bumble bee contest
2021	American Bee Journal. ** Beekeeping magazine article
2018	California Agriculture Today. Radio interview discussing flower plantings for bees

SELECTED COMMUNITY AND ACADEMIC SERVICE

Outreach Ambassador <i>Xerces Society for Invertebrate Conservation</i>	2022 - present
Graduate Student Admissions Committee <i>Entomology Department, Cornell University</i>	2023
REU Admissions Committee <i>Boyce Thompson Institute, Cornell University</i>	2022
Social Justice in Ecology Reading Group Co-organized a reading group and associated Slack workspace aimed at discussing social justice issues that intersect with ecological research and teaching.	2020 - 2021
Student Representative <i>Davis Botanical Society</i>	2019 - 2021
Graduate Student Admissions Committee <i>Entomology Department, University of California, Davis</i>	2020
Intersections of Science and Social Justice Workshop Co-organized a lunch discussion and workshop at the 2019 International Pollinator Conference focused on addressing how we can make science more open and accessible.	2019
Guest Lecturer and Workshop Leader <i>Hoes Down Harvest Festival</i>	2016 - 2019
Research Presentation <i>Davis Botanical Society</i>	2018
Mentor <i>Center for Land-Based Learning</i>	2016 - 2018
Outreach Presentation <i>Master Gardeners, El Dorado County</i>	2017
Referee - <i>Agriculture Ecosystems and Environment, Biological Conservation, Biological Invasions, Ecography, Ecology Letters, Ecosphere, Global Ecology and Biogeography, Insect Conservation and Diversity, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Ecology, Journal of Insect Conservation, Proceedings of the Royal Society B (and others)</i>	

SOFTWARE SKILLS AND COOL STUFF

Computing:	R (advanced), QGIS (basics), L ^A T _E X, git
Languages:	English (native), French (fluent), Spanish (basics)
Fun Fact:	I enjoy incorporating art into my publications, teaching, and outreach!