

CURRICULUM VITAE
Janelle A. Bohey

EDUCATION

- Ph.D, Ecology and Evolutionary Biology 2021-Present
University of California, Irvine
Advisor: D.R. Campbell
- B.S., Environmental Systems 2016-2020
Double minor in Political Science and Chinese Studies
University of California, San Diego
Study Abroad: Beijing University, Beijing China Summer, Fall 2018
Fudan University, Shanghai China

RESEARCH INTERESTS

How does environmental change alter plant-pollinator interactions as mediated by floral scent? I aim to answer three main questions: (1) do soil microbes and soil nitrogen availability affect floral volatile emissions by a subalpine herb (*Ipomopsis aggregata*), (2) do community-wide floral volatiles influence interactions with pollinators and structure networks, and (3) does environmental change affect floral volatile emissions by the whole community and does this affect plant-pollinator interactions. Advisor: D.R. Campbell

What is the role of flowering phenology in assisted gene flow for *Eschscholzia californica*? I investigated (1) evolutionary rescue via assisted gene flow and (2) the impact of flowering phenology in assisted gene flow for the California poppy (*Eschscholzia californica*). Advisor: E.E. Cleland

What is the impact of the Western honey bee (*Apis mellifera*) on native plant reproduction and fitness? I examined (1) if over-visitation by Western honey bees damages reproductive organs and decreases seed set and (2) if honey bees increase the rate of geitonogamy on coastal sage scrub plants and decrease the fitness of the seeds produced compared to native bee pollinators. Advisor: J.R. Kohn

PRESENTATIONS

Oral Presentations

- Bohey, J.**, Campbell, D. “The language of flowers: floral scent as a channel of communication” Topics and Careers in Ecology and Evolution (BIO SCI 2E). March 2023. University of California, Irvine.
- Bohey, J.**, Campbell, D., Powers, J. “Petal Perfumes: Understanding the role of environmental change on floral scent” Ecology and Evolutionary Biology Graduate Student Symposium. March 2023. University of California, Irvine.
- Bohey, J.**, Campbell, D. “Do belowground interactions affect floral communication?” Rocky Mountain Biological Laboratory Graduate Student Seminar. August 2022. Crested Butte, CO.

Bohey, J., Campbell, D. “Effect of nitrogen availability and soil microbes on floral volatile emissions.” Intradepartmental Microbial Group Seminar. University of California, Irvine. May 2022.

Bohey, J., Cleland, E. “The role of flowering phenology in assisted gene flow for *Eschscholzia californica*.” Environmental Symposium. University of California, San Diego. June 2020.

Poster Presentations

Bohey, J., Campbell, D., Powers, J. “Nitrogen availability affects floral scent” Ecology and Evolutionary Biology Graduate Student Symposium. University of California, Irvine. March 2023.

Bohey, J., Campbell, D. “Effect of nitrogen availability and soil microbes on floral volatile emissions.” Ecology and Evolutionary Biology Graduate Student Symposium. University of California, Irvine. May 2022.

AWARDS

Rocky Mountain Biological Laboratory Graduate Student Fellowship 2022, 2023
Awarded a stipend by the Rocky Mountain Biological Lab to cover research expenses.

U.S. Forest Service, CLM Intern Spring 2020
Awarded a position with Conservation and Land Management internship program to work with the U.S. forest service in Big Bear Lake restoring habitats for native bees and monarchs. Unable to participate in the program due to COVID-19 restrictions.

COMMUNITY ENGAGEMENT

Rocky Mountain Biological Laboratory DEI Committee, Council Member Spring 2023-Present
Actively contribute to creating an inclusive culture and promoting the recruitment and retention of scientists from diverse backgrounds. Organize and coordinate social events, discussions, and workshops during the summer seasons. Collaborate closely with RMBL staff to drive positive institutional changes and create a welcoming environment for all individuals.

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), Events and Logistics Coordinator Summer 2022-Present
Responsible for organizing and managing a diverse range of activities. These include coordinating events, meetings, outreach initiatives with local middle and high schools, overseeing the seminar series "Nuestra Historia," and conducting workshops for undergraduate and graduate students on professional development and science communication. Appointed as the president for the upcoming academic year.

CLEAN (Climate, Literacy, Empowerment And iNquiry) Education, Instructor Fall 2021-Present
Facilitate and deliver educational lessons focusing on environmental topics to middle school students from socioeconomically disadvantaged backgrounds.

Brain Exercise Initiative UCI Chapter, Advisor

Winter 2023-Present

Provide advisory support on university policies, facilitate the acquisition of funding and other essential resources, and oversee club registration processes. The Brain Exercise Initiative is a student-run non-profit organization that uses math, reading, and writing as a form of cognitive development for the elderly.

MENTORSHIP**EmpowHER, Mentor**

Fall 2022-Present

Actively guide and support a historically marginalized student at Godinez High School, offering college and career guidance to increase accessibility to STEM-oriented higher education and employment opportunities. Participated as a panelist for the School of Physical Sciences at UCI, sharing insights on the experiences and challenges of being an undergraduate and graduate student in STEM.

Orange County Science and Engineering Fair (OCSEF)

Fall 2022-Present

UCI CalTeach Mentor Program, Mentor

Provide mentorship to two students at Westminster High School, guiding them through their science fair projects with the objective of increasing student engagement and diversity in STEM competitions and professional pathways.

Rocky Mountain Biological Laboratory High School mentorship program, Mentor

Summer 2022

Instructed and guided two High School students in ecological research, equipping them with the skills to formulate and evaluate hypotheses, gather and analyze data, and effectively communicate their research findings.

Rocky Mountain Biological Laboratory Informal Mentoring Program, Mentor

Summer 2022

Provided mentorship to an REU (Research Experiences for Undergraduates) student, offering guidance on both research and career opportunities in addition to the graduate student experience. Aimed to alleviate barriers in STEM fields and promote inclusivity within academia.

PROFESSIONAL EXPERIENCE**Pedagogy at UCI**

Course	Role	Dates
Physiology Lab	Teaching Assistant, lab facilitator	Spring 2023
DNA to Organisms	Teaching Assistant, discussion leader	Fall 2021, 2022
Organisms to Ecosystems	Teaching Assistant, discussion leader	Winter 2022, 2023
Conservation Biology	Teaching Assistant, grader/discussion leader	Spring 2022
Evolution and the Environment Lab	Teaching Assistant, grader/discussion leader	Spring 2022

Hearst Castle State Park, Park Aid

2014-2017

Assisted with environmental education interpretive programs at San Simeon State Park Campground.

CERTIFICATES & COURSEWORK

Mentoring Excellence Program

February 2023

Earned a certificate upon successful completion of a comprehensive 5-week course through UCI Graduate Division. Acquired valuable strategies and techniques for effective mentoring, enhanced interpersonal communication skills, including conflict resolution, refined my mentoring philosophy, and gained strategies for mentoring individuals from diverse backgrounds.

Field Safety 201

Spring 2022

Participated in a full-day training program at UC Irvine focused on proactive measures and effective handling of issues related to discrimination, sexual harassment, and sexual violence within the professional field.

Communication Skills for Environmental Scholars

Fall 2022

Developed skills for effectively communicating climate and environmental issues to non-specialist audiences through hands-on activities. Strengthened technical, presentation, and contextual skills necessary for effective communication across various media platforms and careers.

Seminar in Ecology and Evolution Education

Winter 2022

Participated in weekly discussions focused on teaching methods and obstacles unique to ecology and evolutionary biology courses. Emphasized evidence-based pedagogical techniques through readings, group discussions, and guest speakers.

CONTACT INFORMATION

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