

Jacob Weverka

Ph.D. Candidate – Ecology, Evolution, and Marine Biology
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Education

Ph.D. Candidate - UC Santa Barbara Ecology, Evolution, and Marine Biology, (*Expected early 2025*)
Advisor: Dr. Joshua Schimel
B.S. Ecology and Evolution - UC Santa Barbara (2015), Honors

Peer-Reviewed Publications

- **Weverka, J.R.**, Moeller, H. V., Schimel, J.P., 2023. Chemodiversity controls microbial assimilation of soil organic carbon: A theoretical model. *Soil Biology and Biochemistry* 109161. doi:10.1016/j.soilbio.2023.109161
- **Weverka, J.**, Runte, G.C., Porzig, E.L., Carey, C.J., 2023. Exploring plant and soil microbial communities as indicators of soil organic carbon in a California rangeland. *Soil Biology and Biochemistry* 178, 108952. doi:10.1016/j.soilbio.2023.108952
- Carey, C.J., **Weverka, J.**, DiGaudio, R., Gardali, T., Porzig, E.L., 2020. Exploring variability in rangeland soil organic carbon stocks across California (USA) using a voluntary monitoring network. *Geoderma Regional* 22. doi:10.1016/j.geodrs.2020.e00304

Teaching and Mentorship

Graduate Teaching Assistant

- EEMB/ENVS 171 (Ecosystem Processes) Fall 2020, 2021, 2022, 2023
- EEMB 157C (Plant Physiology) Spring 2020, 2021
- EEMB/ENVS 128 (Restoration Ecology) Spring 2023, 2024
- ENVS 15 (Environmental Chemistry) Winter 2023
- EEMB 146 (Biometry) Winter 2021, Winter 2024
- EEMB 127 (Plant Biology and Biodiversity) Winter 2022
- EEMB 127L (Plant Biology and Biodiversity Lab) Spring 2022

Research Mentoring

- *UC Santa Barbara Undergraduates*: Avery Johnson (2020-21), Vered Pinhas (2021-22), Teresa Cheng (2021-22), Ines Laborinho-Schwartz (2022), Rayna Ruggeri (2022-23), Maiya Romero (2022-present), Kevin Zhou (2023-present), Ella Peterson (2023-present), Jaycee Sacdalan (2024)

Conference Presentations

- American Geophysical Union (San Francisco, CA), *Chemodiversity controls microbial assimilation of soil organic carbon: A theoretical model*. 2023
- Ecological Society of America (Portland, OR), *How chemodiversity regulates soil organic carbon turnover: a theoretical model*. 2023
- Southwest Sustainable Beef Meeting (Las Cruces NM), *Cattle and Soil Carbon: Integrating Plant and Soil Microbial Responses to Grazing*. 2022

Outreach and Other Presentations

- Resource for students - [How to get a government job with a biology bachelor's degree](#).
- *Exploring plant and soil microbial communities as indicators of soil organic carbon in a California rangeland*. (2022) Tomkat Ranch

- *Identifying California Rangeland Flora* (2022) Point Blue Conservation Science
- Opinion Article: Mega Yacht Eco-Issues. (2021) *Santa Barbara Independent*
- *Identifying California Rangeland Flora* (2021) Point Blue Conservation Science

Grants and Awards

(2024) U.S. Department of Energy Office of Science Graduate Student Research Award (SCGSR) - \$10,800
 (2023) UCSB Academic Senate Doctoral Student Travel Grant - \$450
 (2023) ESA Biogeosciences Student Travel Awards - \$500
 (2023) Worster Fellowship for Graduate/Undergraduate Research Mentorship \$5,484
 (2023) UCSB Coastal Fund - \$3,437
 (2022) Mildred E. Mathias Graduate Research Grant - \$2,720
 (2022) UCSB Coastal Fund - \$3,000 - 2022
 (2022) California Native Grasslands Association - \$500 - 2022
 (2022) UCSB Coastal Fund – \$1,000 - 2022
 (2021) UCSB Coastal Fund - \$995.70 - 2021
 (2020) UCSB Coastal Fund – \$7,609.39 – 2020
 (2020) UCSB EEMB Block Grant - \$30,302 – 2020, 2021, 2023
 (2014) Worster Fellowship for Graduate/Undergraduate Research Mentorship - \$5,484 – 2014

Service

University and Department

- EEMB Graduate Student Symposium Organizer (2024)
- Interdepartmental Biogeosciences Weekly Seminar Organizer (2023-24)

Reviewer

- *Catena* (2024), *Egusphere* (2024)

Other Work Experience

Point Blue Conservation Science, Junior Data Analyst, June – Sept 2021, 2022

- Data analysis and writing leading to a peer-reviewed publication

Point Blue Conservation Science, Rangeland Biologist, Jan - June 2017, 2018, 2019

- Vegetation, soil surveys, and data analysis in California rangelands

National Park Service - SF Bay Area Inventory and Monitoring, Biological Science Technician, Plant Community Monitoring, June – Oct 2018

- Field crew lead for plant community monitoring program in SF Bay Area

National Park Service - Yosemite National Park, Biological Science Technician, Summers 2016 & 2017

- Plant identification, seed collection and planting for ecological restoration

Audubon California Starr Ranch Sanctuary, Riparian Assistant, October 2015 - May 2016

- Designed, executed, and monitored wildland riparian restoration and revegetation projects

Briggs Laboratory UCSB, September 2013 – June 2015

Honors Thesis: *Non-native Trout Alter Macroinvertebrate Body Size Distributions in the Sierra Nevada*

Other Training

Jepson Herbarium Poaceae Workshop, May 6-7 2017

UC Davis Extension Online, Fundamentals of GIS, February - March 2018