

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 2025)

Soil Carbon – Management and Theory

Advisor: Dr. Joshua Schimel

UC Santa Barbara - B.S. Ecology and Evolution, (2015), 3.80 GPA, Honors

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

Publications

- **Weverka, J.**, Moeller, H.V., Schimel, J.P., 2023. Chemodiversity controls microbial assimilation of Soil Organic Carbon: A Theoretical Model. *Soil Biology and Biochemistry* (*in review*)
- **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 Experience

Graduate Teaching Assistant

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

Grants and Awards

(2023) ESA Biogeosciences Student Travel Awards - \$500
(2023) Worster Fellowship for Graduate/Undergraduate Research Mentorship \$5484
(2023) UCSB Coastal Fund - \$3437
(2022) Mildred E. Mathias Graduate Research Grant - \$2720
(2022) UCSB Coastal Fund - \$3000 - 2022
(2022) California Native Grasslands Association - \$500 - 2022
(2022) UCSB Coastal Fund – \$1000 - 2022
(2021) UCSB Coastal Fund - \$995.70 - 2021
(2020) UCSB Coastal Fund – \$7609.39 – 2020
(2020) UCSB EEMB Block Grant - \$30,302 – 2020, 2021, 2023
(2014) Worster Fellowship for Graduate/Undergraduate Research Mentorship - \$5484 – 2014

Other Work Experience

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

- Data analysis and writing leading to a 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

- Examined response of aquatic invertebrate body size distributions to the presence of non-native trout

UCNRS Coal Oil Point Habitat Restoration Internship, April 2015 - June 2015

- Invasive plant control, native plant propagation, vegetation surveys, seed collection

Other Training

Jepson Herbarium Poaceae Workshop, May 6-7 2017

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