

Emily Marie Purvis

PhD Student in Ecology
Department of Plant Sciences
University of California, Davis

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EDUCATION

University of California, Davis Expected 6/2026
Ph.D. Ecology, Designated Emphasis in Environmental Humanities
University of California, Berkeley 8/2015
B.A. Philosophy and Integrative Biology (Ecology, Evolution, & Organismal Biology)

FELLOWSHIPS, HONORS, AND AWARDS

Graduate Fellow, John Muir Institute of the Environment, UC Davis 5/2021
Henry A. Jastro Research Award, UC Davis 8/2020
Plant Sciences Graduate Student Researcher Award, UC Davis 9/2019—6/2023
Graduate Group in Ecology Fellowship, UC Davis 3/2019—3/2021
Highest Distinction in General Scholarship (GPA 3.949), UC Berkeley 8/2015
Phi Beta Kappa, Alpha of California Chapter, UC Berkeley 4/2015
Regents' and Chancellor's Scholarship, UC Berkeley 8/2011—5/2015

PEER REVIEWED PUBLICATIONS

Warren, D. R., Collins, S. M., **Purvis, E. M.**, Kaylor, M. J., & Bechtold, H. A. (2017).
Spatial variability in light yields colimitation of primary production by both light and
nutrients in a forested stream ecosystem. *Ecosystems*, 20(1), 198-210.

IN PREPARATION

Purvis, E.M. & Latimer, A.M. Interaction of drought and wildfire in giant sequoia groves
and mixed conifer forests of the southern Sierra Nevada.

UNIVERSITY AND PROFESSIONAL SERVICE

Campus Leadership

Co-Chair, GGE Diversity Committee, Admissions & Awards Subcommittee (Summer 2020—
Fall 2021)
Graduate student facilitator, California Consortium for Inclusive Doctoral Education (C-CIDE)
UC Davis Campus Team (Winter 2021—Present)

Committees

GGE Admissions Planning Committee (Spring 2021—Present)
GGE Diversity, Equity, and Inclusion Task Force (Summer 2020—Present)
Transformative Justice Working Group
Anti-racism Training Working Group
Graduate Group in Ecology (GGE) Diversity Committee (Fall 2019—Present)

Presentations and Public Outreach

Purvis, E.M. (2022). Settler colonialism, ecology, and the University of California.
Graduate Student Symposium. Ecology Graduate Student Association at UC Davis.

- Purvis, E.M.,** Farruggia, M.J. (2021). Field Safety for Marginalized Groups in Ecology. Graduate Student Symposium. Ecology Graduate Student Association at UC Davis.
- Purvis, E. M.** (2015). Leaf defense chemistry of *Protium subserratum* (Bursuraceae) in French Guiana. Department of Integrative Biology Symposium for Undergraduate Honors Research. Cal Day at UC Berkeley.

Teaching and Mentoring

- Teaching Assistant for Community and Regional Development 157, Politics and Community Development, UC Davis (Winter 2022)
- Trained facilitator for the ‘Asking Different Questions: Interdisciplinary Approaches to Science’ Initiative. Feminist Research Institute, UC Davis (Spring 2021—Present)
- Ecology/Evolution Grad School Preview Undergraduate Mentor (Summer 2021—Present)
- GGE Incoming Student Mentor (Fall 2020—Present)

Guest Lectures

- Purvis, E.M.,** Berglund, M.K., Martinez, D.J. (2022). Questioning the Practice of Science. Ecology 200, Core Class for the Graduate Group in Ecology at UC Davis.

TRAININGS AND CERTIFICATES

Federal Aviation Administration

Licensed Remote Pilot (Commercial Drone/UAS/UAV Flight) 7/21

University of California Office of Field Research Safety

Fieldwork Toolkit Leadership Training 3/21

National Outdoor Leadership School (NOLS)

Wilderness First Responder Certification 4/18, 11/21

PROFESSIONAL EXPERIENCE

Project Manager and Field Crew Lead 5/2019—9/2019

University of California, Davis and Save the Redwoods League, Davis CA

- Designed, planned, and executed data collection for two projects related to Giant Sequoia regeneration and forest dynamics; planned and executed data collection for two additional projects related to Giant Sequoia mortality and restoration efforts for conservation non-profit partner Save the Redwoods.

Ecology Field Crew Lead 6/2018—10/2018

University of California, Davis and the United States Forest Service, Davis CA

- Collected technical forest, vegetation, pollinator, wildlife habitat, and fire ecology data in the Sierra Nevada and Cascade mountains. Supervised a field crew, lead data collection, and coordinated logistics between multiple ongoing projects and duty sites.

Verde River Technician 10/2017—6/2018

The Nature Conservancy and AmeriCorps, Camp Verde AZ

- Developed and implemented conservation plans for land and water management to improve streamflow in the Verde River. Collected streamflow measurements, stream surveys, and telemetry data; performed data management/analysis; wrote technical monitoring reports. Collaborated closely with partner nonprofits, USDA Natural Resource Conservation Service (NRCS), landowners, and volunteers.

Biological Science Technician, GS 05 6/2017—10/2017
United States Forest Service, Quincy CA

- Collected technical forest, vegetation, and fire ecology data in remote plots in the northern Sierra and southern Cascade mountains.

Plant Ecophysiology Field Technician 9/2016—5/2017
Smithsonian Tropical Research Institute, Panamá

- Performed plant ecophysiology, hydrology, and micrometeorology data collection and management; programmed and maintained a wide variety of monitoring instruments.

STRAW (Students & Teachers Restoring a Watershed) Intern 9/2015—9/2016
Point Blue Conservation Science, Petaluma CA

- Led students and volunteers in climate-smart watershed restoration projects; performed restoration site maintenance/monitoring; facilitated K-12 environmental education.

Research Experiences for Undergraduates (REU) Fellowship 6/2014—8/2014
National Science Foundation and Warren Lab, Oregon State University

- Conducted independent project investigating the interaction of light and nutrient limitation on primary production in headwater streams.

Research Apprentice & Honors Student 1/2014—5/2015
Fine Lab, Department of Integrative Biology, UC Berkeley

- Processed environmental samples, maintained lab equipment, and performed data management. Completed honors thesis on leaf defense chemistry to evaluate ecological factors that drive tropical diversification.

SERVICE INDUSTRY EXPERIENCE

Line Cook 1/2019—5/2019
Montana Ale Works, Bozeman MT

- Prepared fresh ingredients for service, cooked and plated menu items, cleaned and sanitized cooking surfaces, and stocked food items and other necessary supplies in a fast-paced, teamwork-oriented environment.

Retail Associate 11/2017—4/2018
Rainbow's End Boutique, Cottonwood AZ

- Provided customer service, managed financial transactions, and assisted with inventory/stocking merchandise.

Store Manager 8/2012—8/2015
Young's Backpacking, Berkeley CA

- Independently evaluated and executed day-to-day tasks, including customer service, communication with product distributors, cataloging financial transactions, evaluating inventory, and placing orders.
- Maintained 20 hour/week managerial job for three years while attending college full-time.