

ANNALISE R. TAYLOR

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EDUCATION & SKILLS

PhD Candidate - University of California, Berkeley (August 2019 – April 2024) Berkeley, CA

- Department of Environmental Science, Policy, and Management, Division of Ecosystem Sciences
- GPA: 4.0
- Kelly Lab (<http://kellylab.berkeley.edu/>)
- Head Coordinator of the department's Graduate Diversity Council for two years
- Software and Programming Skills: Python, Google Earth Engine, ArcGIS Suite, JavaScript, R, Adobe Illustrator
- Language Skills: Conversant in spoken and written Spanish.

Middlebury College (August 2012 – May 2016) Middlebury, VT

- Bachelor of Arts: Biology, May 2016. Minor in Spanish.
- GPA: 3.97, Major GPA: 4.0, awarded College Scholar all semesters.

Sede Prim, C.V. Starr Middlebury School in Spain (August 2014 – December 2014) Madrid, Spain

- GPA: 4.00; all coursework in Spanish.

PUBLICATIONS

Taylor, A., Sigona, A., & Kelly, M. (2023). Modeling spatial distributions of Amah Mutsun priority cultural plants to support Indigenous cultural revitalization. *Ecosphere*, 14(1), e4374.

French, S., Sigona, A., **Taylor, A.** (2020). Using Ecology to Recover Traditional Ecological Knowledge and Protect Cultural Resources in the Midpeninsula Regional Open Space District. Report submitted on behalf of the Amah Mutsun Tribal Band and the Amah Mutsun Land Trust. <https://doi.org/10.1002/ecs2.4374>.

Taylor, A., Biswas, T., Randall, J. M., Klausmeyer, K., & Cohen, B. (2020). Parched pines: a quantitative comparison of two multi-year droughts and associated mass mortalities of bishop pine (*Pinus muricata*) on Santa Cruz Island, California. *Remote Sensing in Ecology and Conservation*, 6(1), 20-34. <https://doi.org/10.1002/rse2.123>.

Taylor, A. (2016). Patterns of Bishop Pine Mortality on Santa Cruz Island. Undergraduate thesis, Middlebury College, Middlebury Vermont.

CONFERENCE PRESENTATIONS

Annie Taylor. *Using Earth Engine to support the Amah Mutsun Tribal Band's work to restore cultural fire.* Presentation at Google's Geo for Good Summit. Mountain View, CA, October 2023.

Annie Taylor. *Tracking a grassland's response to frequent fire with the Amah Mutsun Tribal Band.* Coastal Prairie Fire Management Symposium. Santa Cruz, CA, September 2023.

Annie Taylor and Justin Braaten. *Harmonizing and Analyzing 50 Years of Landsat Imagery in Earth Engine.* Presentation and workshop at Google's Geo for Good Summit. Mountain View, CA, October 2022.

Annie Taylor and McKalee Steen. *Mapping for Indigenous Futures: How geospatial tools are being used to restore access, stewardship, and relationship with land.* Panel presentation at the California Native Plant Society's Conference. San Jose, CA, October 2022.

Annie Taylor and McKalee Steen. *Mapping for Indigenous Futures: How geospatial tools are being used to restore access, stewardship, and relationship with land.* Panel presentation at the American Indian and Indigenous Collective's Symposium on Imagining Indigenous Futurities. Santa Barbara, CA, April 2022.

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Annie Taylor and Alexii Sigona. *Revitalizing Reciprocal Relations with Land: Amah Mutsun pathways to reconnection*. Plenary presentation at the UC Critical Mission Studies Conference 2021. San Diego, CA, November 2021.

Annie Taylor. *Parched pines: a forest-wide comparison of two multi-year droughts*. Plenary presentation at Google's Geo for Good Summit. Mountain View, CA, October, 2018.

Annie Taylor. *Drought-related die-off of bishop pine (*Pinus muricata*) on Santa Cruz Island: the worst yet recorded?* Presentation at the California Native Plant Society Conservation Conference, Emerging Tools in Plant Conservation. San Diego, CA, February, 2018.

RESEARCH GRANTS

Research Grant, Department of Environmental Science, Policy, and Management, 2023.

Grant in Aid of Research, Berkeley Chapter of Sigma Xi, 2022.

Natalie Hopkins Award and Grant, California Native Plant Society, 2022.

Sally Casey Research Scholarship, Santa Clara Valley Chapter of the California Native Plant Society, 2022.

Research Grant, Joseph A. Myers Center for Research on Native American Issues, 2021.

Research Grant, Critical Missions Studies Program, 2020.

Research Grant, Department of Environmental Science, Policy, and Management, 2020.

CURRENT RESEARCH

Ecological Impacts and Revitalization of Amah Mutsun Cultural Stewardship Practices

Partnership with the Amah Mutsun Tribal Band and Amah Mutsun Land Trust

- Modeling spatial distributions of Amah Mutsun food and medicine plants to identify accessible gathering sites and facilitate partnerships with land-owning agencies.
- Comparison of spatial patterns and overall abundance of Amah Mutsun cultural keystone plants on a frequently burned and an unburned coastal grassland in Central California using satellite imagery time series analysis.

AWARDS AND FELLOWSHIPS

Phi Beta Kappa Graduate Fellowship, 2023.

Department of Environmental Science, Policy, and Management Fellowship, 2022.

Berkeley Forestry Endowment Award, 2021.

Hannah M. and Frank Schwabacher Award, 2021.

Berkeley Fellowship for Graduate Study, UC Berkeley Graduate Division, 2019 to 2021.

Janet C. Curry Award in Biological Sciences, Middlebury College, 2016.

Undergraduate Thesis awarded Honors designation, Middlebury College, 2016.

Phi Beta Kappa, Phi Beta Kappa Society, 2016.

SERVICE AND ADVOCACY

Graduate Diversity Council – Head Coordinator from 2021 to 2023 and member since 2020.

Bay Area Mutual Aid – designed and maintained the mapping portal from 2020 to 2021.

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Graduate Student Instructor to Student Ratio Project – Supporting a collaborative research and advocacy project involving faculty, graduate, and undergraduate students.

Ecosystem Sciences Division UAW 2865 Representative – from 2019 to 2020.

Research Partnership with Mapping Black California – Initiated and facilitated a partnership between Mapping Black California and my lab group from 2020 to 2021 aimed to analyze and map disparities and trends in municipal police budgets.

TEACHING AND WORKSHOPS

Designed and taught a graduate course at UC Berkeley in the fall of 2022: Applied GIS for Graduate Research: data collection, analysis, and visualization.

Analyzing 50 Years of Landsat Imagery in Google Earth Engine: an Intermediate Workshop. July 2022. Designed and led a hands-on LandsatLinkr workshop at the **Society for Conservation GIS** annual conference.

Google Earth Engine Workshop: Writing Your First Script, Importing Satellite Imagery, and Detecting Changes on the Landscape. November 2021. Designed and led an interactive workshop at the **Indigenous Mapping Workshop: Turtle Island** annual conference.

Introduction to Google Earth Engine: Estimating Changes in Vegetation Condition in a Grassland Ecosystem. July 2021. Designed and led a hands-on workshop at the **Society for Conservation GIS** annual conference.

Introduction to Google Earth Engine: Estimating Changes in Vegetation Condition in a Rangeland Ecosystem. May 2021. Designed and led a participatory workshop for UC ANR through **UC Informatics and GIS**.

Introduction to Google Earth Engine and LandTrendr. July 2020. Led a hands-on workshop for UC ANR through **UC Informatics and GIS**.

Introduction to Google Earth Engine and LandTrendr. April 2020. Designed and led a hands-on workshop at the **UC Berkeley Geospatial Innovation Facility**.

[List of all of my Google Earth Engine workshops and associated materials](#); please distribute freely!