

# MARINA KOCHUTEN

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[Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## EDUCATION

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**Master of Environmental Data Science**, 4.0 GPA (Expected June 2025)

**Bren School of Environmental Science & Management | University of California, Santa Barbara (UCSB)**

Awards & Leadership: Environmental Data Science Fellow; Native Forward Scholars Fund recipient; Diversity committee student representative

Highlighted Coursework: Python for Environmental Data Science, Geospatial Analysis & Remote Sensing, Statistics, Ethics & Data Bias, Data Visualization & Communication, Machine Learning, Environmental Policy Evaluation, Modeling Environmental Systems

**Bachelor of Science in Environmental Science & Resource Management**, 3.56 GPA (December 2019)

**University of Washington (UW) Seattle**

Awards & Leadership: Gates Millennium Scholar; Costco Diversity Scholar; Deans list (2018 & 2019)

Highlighted Coursework: GIS, Environmental Resource Assessment, Tropical Ecology

Study Abroad: Council on International Educational Exchange, Tropical Ecology & Conservation, Costa Rica (January – May 2019)

## TECHNICAL SKILLS

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**Proficient in**: R, Python, Bash, Git/GitHub, ArcGIS, Microsoft 365, Google Earth Engine, Procreate, Canva

**Familiar with**: HTML, CSS, SCSS, Adobe Creative Cloud

## ENVIRONMENTAL SCIENCE PROJECTS

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**Master's Capstone Project** (1/15-present)

**Modeling the Impact of Decarbonization on Labor in California's Central Coast** | Clients: The 2035 Initiative; UCSB Community Labor Center

- Developing an interactive map in the form of a Shiny web app highlighting job market losses & gains as the Central Coast transitions away from fossil fuels & towards clean energy
- Designing & implementing modeling methodology that predicts impacts of the clean energy transition
- Organizing & leading weekly meetings with the clients & the data team

**Undergraduate Capstone Project** (4/19-5/19)

**Ectomycorrhizal fungi contribute positively to soil carbon content in a tropical cloud forest**

- Designed, proposed, & conducted an independent research study under faculty advisory in Costa Rica
- Authored a publication-quality manuscript (currently in review)
- Presented research in 2 public research symposiums

## PROFESSIONAL EXPERIENCE

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**Teaching Assistant | UCSB Geography**, Santa Barbara CA (9/24-12/24)

- Led 30 students through weekly GIS labs using ArcGIS Online to create portfolio-quality deliverables including Web Maps, StoryMaps, Dashboards, & Web Apps
- Created & delivered lecture materials covering key concepts in geospatial analysis including the basics of GIS, mapping vector and raster data, manipulating Landsat band combinations to create false color imagery, performing spatial and aspatial queries, adding and calculating new fields in attribute tables, Summarize Within tool, zonal statistics, join tool, data visualization best practices,
- Provided feedback on lab participation activities, lab deliverables, quizzes, & final projects

- Held weekly office hours & created a warm & welcoming environment to help students from all backgrounds navigate the course, the university, & life as an undergraduate

**Miller Seed Vault Volunteer | UW Botanic Gardens, Seattle WA (9/20-1/22)**

- Handled seed collection containing over 320 rare plant species from Washington State in the largest seed vault in the Pacific Northwest
- Counted, cleaned, & stored seeds from the 2019 sampling season, processing over 12 collections & 20,000 seeds & completing season cleaning in record time

**Field Ecology Intern | UW Rare Plant Care & Conservation, Seattle, WA (6/20-9/20)**

- Surveyed rare & endangered alpine plant populations in Washington's 3 National Parks
- Designed & built permanent monitoring plots & monitoring protocol to be distributed to volunteers
- Mapped target species populations using handheld GPS units & ArcGIS
- Planned trips to the field with Google Earth Engine to pinpoint potential locations of our target species
- Backpacked up to 10 miles per day, up to 8 consecutive days, to find target populations

**Assistant Director | EarthKeepers Nature Day Camp, Seattle, WA (Summers '18-'19)**

- Redeveloped camp into a focus on outdoor education & environmental stewardship
- Oversaw 6 educators & 60 students each week
- Prepared lesson plans for educators to use as a starting point for their groups
- Upkept important student files including information on allergies & special needs
- Communicated with all parents each day & coordinated drop-off & pickup
- Fostered an inclusive, fun, & welcoming environment for students from all backgrounds

**Undergraduate Research Assistant | UW Hydro-Biogeochemistry Lab, Seattle, WA (9/16-8/17)**

- Collected carbon & methane emission data from lab-grown peat bog grasses
- Data entry & management in Excel
- Maintained a clean & safe lab space through lab cleaning & inventory

**ADDITIONAL EXPERIENCE**

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**Independent Travel | US, Canada, & Mexico in self-built campervan (5/22-6/23)**

**Bartender | Aslan Brewing Co., Seattle, WA (4/21-5/22, 6/23-7/24)**

**Community Garden Volunteer | Duwamish Longhouse, Seattle, WA (5/19-9/19)**

**Teaching Assistant | UW Environmental Science & Resource Management, Seattle, WA (3/18-6/18)**

**AFFILIATIONS**

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American Indian Science and Engineering Society (AISES)

Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS)