

# Raymond Hunter

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## EDUCATION

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**Master of Environmental Science and Management**, Emphasis: *Data Science*, 3.99 GPA (June 2024)  
**Bren School of Environmental Science & Management** – University of California, Santa Barbara (UCSB)

**Bachelor of Science in Ecology and Evolutionary Biology**, Highest Honors (December 2020)  
**Bachelor of Arts in Environmental Studies**, Honors (December 2020)  
University of California, Santa Cruz (UCSC), 3.84 GPA

## SKILLS & CERTIFICATES

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**Communication:** Grant writing, technical writing, budgeting, public presentation, stakeholder engagement  
**Data Visualization:** R/RStudio, R Shiny, Quarto, RMarkdown, CSS/SCSS, HTML, Javascript  
**Data Science/Management:** R/RStudio, Git/GitHub, SQL, JMP, Bash  
**Modeling/Machine Learning:** supervised/unsupervised, fitting, tuning, training/testing, model validation  
**GIS and Remote Sensing:** R, ArcGIS, QGIS  
**Certificate:** *Google Data Analytics* by Coursera (9/2023)

## EXPERIENCE

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**Data Analyst - NOAA Fisheries**, (Contract Remote (4/25-pres.))

- Designed and implemented statistical models in R to analyze trends in sustainable fisheries and evaluate commercial fishing sector responses to federal management policies under the Magnuson-Stevens Act, supporting decision making by the Pacific Fishery Management Council.
- Developed interactive dashboards and technical reports to communicate complex findings clearly to federal, state, and regional stakeholders, enhancing stakeholder engagement in policy processes.

**Data Analyst - Comunidad y Biodiversidad**, (Contract remote 4/25-7/25)

- Designed and deployed a server-based evaluation tool using R Shiny, enabling users to assess the effectiveness of marine protected areas across Mexico.

**Data Manager, Masters Capstone**, Santa Barbara, CA (3/23–6/24)

**NOAA National Marine Fisheries Service (NMFS)** [Link to Shiny Dashboard](#)

- Conducted geospatial and economic analyses of 180k+ hectares spatial data to model riparian habitat restoration needs, generating cost estimates to support strategic policy and funding decisions.
- Identified critical habitat for federally endangered salmonid species, informing NOAA restoration planning and aligning with Endangered Species Act (ESA) recovery goals.
- Built an interactive R Shiny dashboard to communicate findings to NOAA restoration managers and policy stakeholders, supporting data driven restoration strategies and program implementation.

**Teaching Assistant UCSB** (9/22-6/24)

- Taught 350+ undergraduate students | *Ecology* | *Environmental Chemistry* | *Environmental Ethics*

**Biosecurity Data Scientist Intern – The Nature Conservancy (TNC)**, Santa Barbara, CA (6/23-9/23)

- Led a comprehensive study including statistical analysis, GIS, report writing, budget management, and fieldwork to address biosecurity weaknesses in the Channel Islands while mentoring an undergraduate.
- Presented findings at the California Islands Symposium (publishing a first-authored scientific paper) to inform local policy makers on potential threats to coastal habitat.

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### **Data Analyst – Yoga Soup**, Santa Barbara, CA (part time 9/23-pres.) [Link to Shiny App](#)

- Built a user-friendly Shiny App for team management to access, visualize, and interpret company data through reproducible R pipelines that automate analytical workflows on server end
- Developed and executed a robust data storage plan to distribute and archive terabytes of sensitive data

### **Lab Technician – Sierra Nevada Aquatic Research laboratory**, Mammoth Lakes, CA (1/21–6/22)

- Assessed 20+ years of mining impacts on alpine stream biodiversity to evaluate remediation effectiveness under the CERCLA (Superfund) framework, supporting policy compliance for the U.S. Forest Service.
- Managed and analyzed a long-term aquatic invertebrate dataset to support regulatory reporting.

### **Biologist – Mountain View Biological Consulting**, Mammoth Lakes, CA (1/21–6/21)

- Wrote technical environmental compliance reports for contractors, consultants, and land owners summarizing project description and biological activity within the region of interest.
- Communicated project logistics to senior biologists, project managers, and contractors.

### **Sustainability Educator - Coastal Watershed Council**, Santa Cruz, CA (1/20-4/20)

- Educated the public through restoration events, school activities, and attending public counsels on how upstream actions impact native river ecology and wildlife throughout Santa Cruz County.

### **Research Assistant – Palkovacs Lab UCSC**, Santa Cruz, CA (9/19-12/20)

- Designed a study measuring the ecological consequences of wildfires on Steelhead across 3 different streams in Big Sur, California including survey design, field work, statistical analyses, and science writing

### **REU Intern – University of Puerto Rico**, Rio Piedras, PR (6/19-9/19)

- Designed and led a research project assessing human disturbance impacts on 25+ freshwater taxa in low-income communities, advancing understanding of environmental equity and watershed resilience.
- Collected and analyzed hundreds of biological samples while managing a limited fieldwork budget, and communicated findings through a research report presented at the Puerto Rico REU symposium

## **ADDITIONAL DATA SCIENCE PROJECT EXPERIENCE**

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### **Applying Supervised ML Classification Approaches to Landuse Cover** (9/23–12/23)

#### **Master's Geospatial and Remote Sensing Project** | Skills: R, Git, Machine Learning | [GitHub repository](#) | [Blog](#)

- Programmed a workflow to train robust supervised ML decision tree classification models utilizing 6 multispectral resolution bands to predict 100,000s of acres of landuse cover in Santa Barbara, CA
- Subsetted Landsat multispectral rasters into identified parcels to train county raster model predictions

### **Identifying Potential Marine Aquaculture Habitat Along the West Coast** (9/23–12/23)

#### **Master's Geospatial and Remote Sensing Project** | Skills: R, Git, Spatial | [GitHub repository](#) | [Blog](#)

- Leveraged spatial joins/subsetting, zonal statistics, and transformation of raster/vector data to map and communicate exclusive economic zones ranked by suitable habitat of varying marine organisms
- Programmed a streamlined pipeline that generates species habitat maps with minimal function inputs

## **HONORS/AWARDS/GRANTS**

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Bren Academic Excellence Recruitment Fellowship (2022-24) | NRS Field Science Fellowship (2020) | Future Leaders in Coastal Science Award (2019) | Kathryn D. Sullivan Impact Award (2019) | Norris Center Student Natural History Award (2019) | Richard Cooley Award (2019) | National Society of Collegiate Scholars (2017)