

Scout Leonard

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EDUCATION

Bren School of Environmental Science & Management - UC Santa Barbara | Santa Barbara, CA

Master's, Environmental Data Science (August 2021 - Present)

Relevant Coursework: Remote Sensing; Spatial Analysis; Statistics for Environmental Data Science; Metadata Standards; Introduction to Data Storage and Management; Analytical Workflows and Reproducibility; Data Visualization and Communication; Environmental Policy Evaluation

Honors/Awards: Environmental Data Science Scholarship

Harvard College | Cambridge, MA

Bachelor's, Integrative Biology. Secondary in Energy and the Environment (May 2018)

Relevant Coursework: Fundamentals of Biostatistics; Conservation Biology; Writing the Environment

Awards/Honors: Harvard Center for Public Interest Careers Harvard Clubs Summer Community Service Fellowship Recipient; Harvard Graduate School of Education Opportunities in Education Fellowship Recipient; Harvard College Weissman International Internship Grant Recipient

Leadership/Involvement: Conservation Society (Project Leader), Naturalist's Club, Conservation book Club (Founder), Biodiversity of Hispaniola Study Abroad

MASTER'S CAPSTONE DATA SCIENCE PROJECT

Assessing Potential Environmental Justice Implications of Environmental Pressures from the Global Food System

Role: Data Analyst | **Client:** Dr. Ben Halpern, National Center for Ecological Analysis and Synthesis

Deliverables: Reproducible, spatial analysis and explanatory modeling workflow documenting our machine learning and statistical modeling assessment of the relative importance of proximity types of food production in the U.S. compared to other health determinants; maps and visualizations communicating findings.

WORK EXPERIENCE

Stanford Data Science for Social Good Program | Remote

Fellow (June 2022 – Present)

- Assessed the quality of, manipulated, and modelled U.S. county-level public health and socioeconomic data
- Interpreted feature importance of various models to evaluate and communicate important public health measures for reducing excess death during the COVID-19 pandemic and articulated in final presentation
- Interpreted findings and articulated results in a final report and Data Science Department presentation

National Center for Ecological Analysis and Synthesis (NCEAS) | Santa Barbara, CA

Researcher (October 2021 – Present)

- Conducted a systematic review of peer-reviewed and grey literature for synthesis of best practices and policies for supporting justice, diversity, equity, and inclusion in team science settings
- Developed evidence-based team science guidelines for NCEAS synthesis science working groups
- Co-authored submitted manuscript, recently accepted by PLOS Computational Biology, "Ten simple results to cultivate belonging in collaborative data science research teams"

UC Santa Barbara Jasechko Lab | Santa Barbara, CA

USGS Well Water Database Research Assistant (September 2021 - October 2021)

- Digitized century-old data from water well surveys across the United States. Utilized understanding of tidy data to create a database which R can easily work with to analyze historic USGS data

Share Our Strength: No Kid Hungry Campaign | Oakland, CA

Breakfast After the Bell Manager for Oakland Unified School District (September 2019 - July 2020)

- Program assessment and implementation across 50 OUSD schools for No Kid Hungry's Breakfast After the Bell, which strategically ensures more free-and-reduced-lunch-eligible students have access to breakfast programs
- Maintained grant compliance, developed qualitative and quantitative program measures, wrote analytic reports for funders on behalf of 25 schools which received funding for Breakfast After the Bell programming

- Creative problem solving and support around various programmatic challenges at multiple levels, relying especially on building interpersonal relationships with stakeholders at the school and district level

Atlantic White Shark Conservancy | Chatham, MA

Summer Fellow (June 2018 – August 2018)

- Secured grant funding for an added internship position through the Harvard Center for Public Interest Careers
- Partnered with the Cape Cod Fishermen's Alliance, Northwest Atlantic Seal Research Consortium, and CARE for the Cape and Islands to promote holistic, scientific messaging about the Cape's environment and history
- Communicated ongoing Great White Shark population research and safety information, as well as other science with accessible exhibits designed using Adobe and Microsoft programs, as well as spoken presentations

The Kasiisi Project | Fort Portal, Uganda

Beekeeping and Conservation Intern (June 2017-August 2017)

- Installed Broodminder hive monitoring devices and trained local beekeepers to do the same and collect data from the devices. Used in global honeybee citizen science to understand hive responses to changes in climate
- Collaborated with local educators; developed educational materials and taught regional elementary school students about honeybees, their biology, beekeeping, and other environmental topics

FoodCorps | Oakland, CA

AmeriCorps Service Member, Oakland Unified School District (August 2018 - Present)

- Completed 1700 hours of service in 2 school communities as the sites' food and garden educator, serving students, their families, teachers, cafeteria staff, and administrators in fostering a schoolwide culture of health
- Developed and managed program assessment databases and budgeting spreadsheets for program expenses across more than 20 schools; convened diverse stakeholders to build strategic community partnerships and mobilize change in school gardens and cafeterias

Harvard University Farrell Lab | Cambridge, MA

Undergraduate Researcher (September 2016 - January 2018)

- Learned and independently executed various lab techniques in beetle and plant genomics (DNA amplification, PCR, sequencing), as well as the programs used to understand and analyze genomic data, such as R and Geneious
- Researched existing, relevant academic work within *Aristolochia* plant genomics and applied techniques to my own project using *Aristolochia* samples from Hispaniola

Harvard University Museum of Natural History | Cambridge, MA

Undergraduate Research Assistant (September 2015 – May 2016)

- Collaborated with museum team to develop vision for "What's in a Name?" binomial nomenclature science communication museum exhibit and online resources
- Independently reviewed biological and scientific information regarding binomial nomenclature and that of specific species; using this research, wrote science communication pieces and compiled relevant images for museum patrons

VOLUNTEER EXPERIENCE

National Center for Ecological Analysis and Synthesis | Santa Barbara, CA

Roundtable Committee Student Representative (September 2021 - Present)

- Represented Environmental Data Science cohort; invited guest scientists and organized weekly talks at NCEAS

Environmental Justice Club | Santa Barbara, CA

Member (September 2021 – Present)

- Collaborated with club member to develop goals for pushing EJ programming at Bren and expanding opportunities for other Bren students to engage with EJ concepts in their specializations

SKILLS AND CERTIFICATIONS

Programming Languages: R, Python, SQL, Bash, Markdown, familiar with HTML and CSS

Software: R Studio, Jupyter Notebook, Jupyter Lab, Github, Google Earth Engine, Tableau, Zoom, Canva, Geneius

Project Management: Microsoft Office Suite (Excel, Word, PowerPoint, Publisher, Outlook), Google Suite (Docs, Sheets, Slides, Drive), Slack, Zotero, Github Issues, Zenhub, Clockify