

Sam Lance

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EDUCATION

Master of Environmental Science and Management, GPA 4.0 (Anticipated June 2025)

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

Specialization: Water Resources Management

Highlighted Coursework: Sustainable Water Resources Management, Groundwater Management, Conservation Planning, Quantitative Geomorphology, Data Analysis

Bachelor of Arts in Environmental Earth Science, 3.83 GPA (May 2022)

WashU (Washington University in St. Louis), St. Louis, MO

Honors/Awards: Lynne Cooper Harvey Writing Prize, Graduated with College Honors

Involvement: Member of Academic Geology Fraternity Sigma Gamma Epsilon

RESEARCH EXPERIENCE

Data Manager, BIOCHARGE Group Project, Santa Barbara, CA (3/24-Present)

- Grew 200 native and agricultural plants to understand whether adding biosolids based biochar to soils would affect plant growth and nutrient quality
- Managed all laboratory activities by creating the experimental plan, addressing all plant related concerns such as predation, and leading all nutrient extraction lab sessions

Research Assistant, Surface Processes Group, Santa Barbara, CA (6/24-Present)

- Developed code in Python to download and clean 40 years of river discharge data for 200+ avulsion sites around the world
- Analyzed avulsion data in RStudio to understand whether avulsions occur during high discharge events, or are caused by other factors

Research Assistant, Industrial Sustainability Analysis Laboratory, Santa Barbara, CA (10/23-3/24)

- Created a database of 250+ EPDs for 6 major industries (concrete, steel, etc.) to understand how they can assist in improving future embodied carbon policies in California

PROFESSIONAL EXPERIENCE

Environmental Planning Intern, Morro Bay National Estuary Program, Remote Morro Bay, CA (6/24-12/24)

- Designed an ArcGIS Storymap containing maps and descriptions of 20+ projects to show the progress MBNEP has made to address areas of improvement cited by the EPA
- Compiled 5 years of project information and data into an Excel matrix that function as the core of their Program Evaluation documentation submitted to the EPA this March

GIS Consultant, Nashville Parks Foundation, Remote Nashville, TN (12/22-2/23)

- Spearheaded a project to map properties managed by the HG Hill Realty Company within a mile of high-need parks in Nashville, which led to a \$3,000 donation for park beautification

ADDITIONAL EXPERIENCE

Time Management Assistant for INT10, UCSB, Santa Barbara, CA (1/24-3/24)

Conducted individual meetings with 10+ at-risk students to monitor their academic status

Staff Geologist, Haley & Aldrich, New York, NY (8/22-11/22)

Managed 10+ staff on a construction site in the South Bronx to ensure the proper removal and movement of 750-1500 tons of highly contaminated soil so it would not impact local communities

SKILLS & CERTIFICATIONS

Spatial Analysis: ArcGIS Pro, ArcMap, QGIS, Google Earth Pro, RStudio

Data Analysis: RStudio, Python, Excel

Language: Basic Knowledge of Chinese and Spanish

Other Skills + Certifications: CPR and First Aid Certified, Experienced Rock Climbing + High Ropes Guide