ALEXANDRIA REED

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EDUCATION

Master of Environmental Data Science (Expected June 2023)
Bren School of Environmental Science & Management – University of California, Santa Barbara (UCSB)
> Highlighted Coursework: Statistics for Environmental Data Science, Geospatial and Remote Sensing, Machine Learning, Modeling Environmental Systems, Databases and Data Management
> (to be complete by June 2023)
> Leadership/Involvement: Class Chair, Dean's Advisory Council

Bachelor of Science in Environmental Studies (June 2017)
UCSB, Santa Barbara, CA

SKILLS

Languages: R, Python
Environments: Posit (RStudio), Visual Studio Code, JupyterLab
Technical: QGIS, Tableau, Data Visualization, Geospatial Analysis, Modeling
Certifications/Degree: Associate of Arts in Liberal Arts & Sciences: Mathematics and Science (May 2015), OSHA 40-Hour HAZWOPER, OSHA 10-Hour Construction Outreach
Additional Experience: Trip Leader/Campus Representative (9/16–5/17): raised over $15,000, to assist locals in Ecuador and Nicaragua.

EXPERIENCE

Citadel EHS, Glendale, CA
Environmental Specialist (1/18–8/22 Full Time, 8/22-Present Part-Time)
- Manage wastewater surveillance projects for the presence of SARS-COV-2. Successfully identify the presence of COVID in wastewater and implement measures to reduce the risk of outbreaks.
- Manage dust monitoring of lead-impacted soil during the redevelopment of a former cement plant. Compiled, wrangled, analyzed, and prepared reports of wind and dust data weekly to be submitted to the South Coast Air Quality Management District (SCAQMD) and the Department of Toxic Substances Control (DTSC).
- Prepare Phase I Environmental Site Assessments and conduct Phase II Site Investigations, consisting of soil, soil vapor, groundwater, and indoor air sample collection.
- Manage radon surveying projects for various multi-family residential clients.
- Conduct hazardous material inventories, environmental audits, and inspections of facilities.

Cheadle Center for Biodiversity and Ecological Restoration (CCBER), Santa Barbara, CA
Restoration Intern (3/16–6/16) / **Environmental Educator** (4/17–6/17)
- Led fieldtrips, workshops, and created unique lesson plans to increase knowledge about environmental sciences for fifth graders.
- Monitored vegetation and wildlife, managed invasive species, collected vegetation samples for research, and worked on projects independently as well as with a team.
- Managed and led the restoration of a portion of a UCSB-owned wetland.

MASTER'S CAPSTONE PROJECT

Informing Forest Conservation Regulations in Paraguay (1/23–Present)
Data Science | Role: Communication Manager | Client: Robert Heilmayr, Assistant Professor, UCSB & Paraguay's National Forestry Institute
- Create and share publicly facing materials on the project as required by the Bren School and/or client; organize and communicate team meetings; and manage GitHub projects and weekly tasks.
- Assess the compliance of property owners' execution of their approved land use plans (LUPs) and quantify historic deforestation rates in the Paraguayan Chaco.
- Train a machine learning model to predict deforestation patterns in the undeveloped region of the Paraguayan Chaco, including variations in the laws governing LUPs.
- Create an interactive tool visualizing results with the potential to impact future forest policy laws.