Bruno Lopez

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EDUCATION

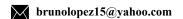**University of California, Santa Cruz**   *Graduated June 2020*
Bachelor of Science in Earth Science w/ Honors   ***GPA 3.48***
Honors Thesis: "Assessing Long-Term Changes in Sea Surface Temperature Extremes".
Relevant Coursework: Programming Abstractions: Python, Data Analysis in the Environmental Sciences,
Advanced GIS, Statistics, and Data Analysis in the Geosciences, Scientific Computing, Data Visualization.

EXPERIENCE

RESEARCH DATA ANALYST   **Stanford, CA**
Stanford University   *January 2021 - Present*
- Led a project which used Machine Learning techniques to build models that predict crop classification as well as crop yields in Malawi, Africa.
- Scripted programs to automate data extraction, data analysis, dashboard creation, report making, data visualization, web scraping, and machine learning for our lab group and handled version control using Git.
- Conducted statistical research/data analysis for multiple projects under minimal supervision.
- Designed and implemented data pipelines for undergraduate students improving their speed 2-10 times.
- Coordinated meetings for multiple projects in a quick and efficient manner.

ENVIRONMENTAL DATA ANALYSIS INTERN   **Moss Landing, CA**
Monterey Bay Aquarium Research Institute (MBARI)   *July 2020 - September 2020*
- Extracted, cleaned, analyzed, and plotted messy biogeochemical datasets, using R and Python.
- Mapped out the routes of Biogeochemical Argo-Floats in the Subarctic Pacific Ocean programmatically.
- Automated scripts to organize files, as well as automate data extraction from those files.
- Analyzed time-series data to quantify changes in the Phytoplankton biomass in the Subarctic Pacific.

ENVIRONMENTAL DATA ANALYSIS RESEARCHER   **Santa Cruz, CA**
University of California Santa Cruz   *August 2019 - June 2020*
- Carried out a statistical analysis project on sea surface temperature (SST) extremes using R and Python.
- Created publication-quality maps and figures using the ggplot, matplotlib, and lattice packages.
- Wrote scripts to automate data analyzation for many types of data (NetCDF, tif, csv, txt, html)
- Assisted other researchers in developing well-structured and efficient code in R.

SKILLS

R (Data Cleaning, Statistical Analysis, Data Visualization, Text Mining, Time Series Analysis, dplyr, ggplot2),
Python (File Manipulation, Data Extraction, Data Visualization, NumPy, Pandas, Geemap. Web Scraping), **SQL (**Querying, Database Creation), **Tableau (**Dashboard Creation, Data Visualization), **Javascript (**Vanilla Javascript, Web Design), **R Shiny** (Interactive Dashboards, CSS, Data Visualization, Web Pages), **Machine Learning** (Random Forest, Regression, K-Means, Cross-Validation, PCA, SVM), **Git** (Github, version control).