

# Phoebe Ly

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## **OBJECTIVE**

As an optimistic geospatial data analyst and product engineer, I am driven by the opportunity to create a positive impact by transforming complex data into actionable insights. I am eager to join a forward-thinking team where I can contribute my creativity, programming and analytical expertise to scale products that can benefit billions around the world.

## **EDUCATION**

**University of California, Riverside (UCR)**

**June 2017 - June 2021**

*Bachelor of Science, Major in Statistics, Minor in Computer Science*

**Honors Thesis:** Contribution of Plant Canopies to Soil Organic Carbon Along an Elevation Gradient

## **WORK EXPERIENCE**

**Geospatial Data Analyst, Atlas AI**

**April 2022 - present**

- Extracted and analyzed geospatial data, developing a GeoAI platform for various domains (i.e public health, aviation, and agriculture) to enhance client operations while taking on significant responsibilities in a small team environment
- Developed and deployed a range of gradient boosting machine learning models, utilizing MLFlow for comprehensive version tracking from initiation to completion
- Secured an additional \$100,000 in project funding by delivering valuable results and proof of concept
- Frequently transformed project concepts into scalable solutions for global customer benefit
- Collaborated with the Engineering team to troubleshoot and resolve GeoAI platform bugs, ensuring smooth transitions to production
- Regularly presented work to clients, internal meetings, and company-wide showcases to foster broader research and business discussions

**Research Assistant, Center of Food Security & Environment, Stanford University**

**June 2021 - April 2022**

- Sampled and extracted Sentinel-2 data utilizing Google Earth Engine
- Scraped data tables from the Soil Health Card from the Government of India using Python's selenium
- Filtered remote sensing images and calculate various vegetation indices for analysis in R
- Generated countless exploratory maps and graphs, built linear and random forest models with cross-validation
- Authored the scientific abstract and presented a poster at the 2021 American Geophysical Union Conference

**Student Researcher, Soil Biogeochemistry Lab, UCR**

**September 2019 - July 2021**

- Analyzed X-ray Fluorescence soil data to find trends and characterize soil composition for research
- Automated the generation of user-friendly graphs for audiences with limited statistical expertise
- Collaborated effectively in an interdisciplinary team, gaining insights into an unfamiliar field
- Assisted with multiple projects involving data cleaning and analysis

**Data Analyst Intern, Hyperion Development, Cape Town, South Africa**

**June 2019 - August 2019**

- Developed a system for automatic weekly generation of dashboards and charts to track employee progress
- Revised and reformatted the Software Engineering and Data Science Bootcamp courses to improve student learning outcomes
- Explored various data visualization tools, including Metabase and Tableau, to identify cost-effective solutions for communicating analysis to employees

## **TECHNICAL SKILLS**

**Languages:** Proficient in R and Python, Experience with SQL, C++, SAS, MATLAB, HTML/CSS

**Software:** RStudio, JupyterLab, Tableau, Docker

**Platforms:** MLFlow, Google Earth Engine