

Kathryn Nguyen

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PROFILE

Student at UC Berkeley passionate about using Data Science and GIS mapping to guide efficient decision making, planning, and social responsibility. Seeking to leverage geospatial & data analysis, data visualization, and predictive modeling skills to solve challenges in real world settings.

EDUCATION

University of California, Berkeley

Expected Graduation: May 2025

B.A. in Data Science | Minor in Geospatial Information Science & Technology

- **Coursework:** Foundations of Data Science, Environmental Data Analysis, Structure and Interpretation of Computer Programs, Linear Algebra, Calculus, Data Structures (Fall '22), Principles & Techniques of Data Science (Fall '22)

WORK EXPERIENCE

Student Environmental Resource Center

Berkeley, CA

Green Team Associate

May 2022 — Present

- Student lead of Cal's Single-Use Plastic Elimination by 2030 Policy; communicate with 10+ key stakeholders to meet waste reduction targets, lead a membership team of 10 students, and create educational campaigns to inform campus of the policy
- Utilize data compiled from usage reports/POs to produce metrics and quantify the number of single-use plastics reduced

Turning Green

Remote

Summer Intern

June 2021 — August 2021

- Updated State databases on Excel with lists of high school and university contacts for program outreach
- Conducted research on brands and reached out to 100+ environmentally conscious companies and non-profits to curate sustainable prizes, auction items, and sponsorships for Project Green Challenge and the Harvest Benefit

EXTRACURRICULARS

DataGood @ Berkeley

Berkeley, CA

Project Developer

February 2022 — May 2022

- Created linear and polynomial regression models to arrive at a highly accurate model for predicting future CO2 levels
- Performed exploratory data analysis, visualizations, and machine learning modeling with train-test-split classification, residual plots, and computing the RMSE using following libraries: NumPy, Pandas, Seaborn, Matplotlib, and Sklearn

Housing and Dining Sustainability Advocates

Berkeley, CA

Sustainability Intern

September 2021 — May 2022

- Aided sustainability initiatives on a weekly basis to enhance environmental efforts in the dining and residence halls
- Harvested fresh produce at Brown's and Clark Kerr gardens for the Berkeley Food Pantry, performed waste audits at the dining and residence halls, and quizzed students' waste sorting knowledge at zero waste tabling events

PROJECTS

Structure and Interpretation of Computer Programs Class: Scheme Interpreter | [Project Link](#)

April 2022

- Developed an interpreter for the Scheme programming language in Python, which includes the following features: Read-Eval-Print, Loading Files, Symbols, and Turtle Graphics (procedure calls to the Python turtle package).

DataGood Climate Change Data Analysis: CO2 Emission Regression Models | [Project Link](#)

April 2022

- Created linear and polynomial regression models using train-test-split classification to predict future CO2 levels.

Cartographic Representation Class: Food Security in the United States | [Project Link](#)

December 2021

- Created choropleth maps and graphics to analyze the relationship between poverty, race, and food security in the US.

Machine Architecture Class: Eco-Chatbot | [Project Presentation](#) | [Code](#)

May 2021

- Created a chatbot using Rasa, a conversational AI platform, to improve a user's knowledge of environmental issues/topics.

Project Green Challenge Finals: Carlmont Community Garden | [Project Link](#)

May 2021

- Organized efforts to build a native pollinator garden on campus to promote biodiversity and build community; awarded \$750.

Girl Scout Gold Award: Tri-Bin System | [Project Website](#)

February 2021

- Established a tri-bin waste system and led an educational waste sorting campaign at Ralston Middle School.

SKILLS

Computer: Python, Java, C, MIPS, Scheme, HTML | Microsoft Office (Word, Excel, PowerPoint), Adobe (Illustrator, Photoshop)

Languages: English, French, American Sign Language (basic)

Interests: Calligraphy, Graphic Design, Yoga, Fan Dance, Gardening, Hiking, Sustainable Fashion, Vietnamese Culture