Kathryn Nguyen

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PROFILE

Student at UC Berkeley interested in using Data Science and GIS mapping tools to understand the Earth's climate patterns, ecosystem dynamics, and the impacts of human activities on our planet's health. Seeking to leverage geospatial & data analysis, data visualization, and predictive modeling skills to engage in impactful research projects aimed at addressing real-world problems.

EDUCATION

University of California, Berkeley *Expected Graduation: May 2025*

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

- **GPA:** 3.7
- **Coursework:** Foundations of Data Science, Principles & Techniques of Data Science, Data Structures, Geographic Information Science, Structure and Interpretation of Computer Programs, Linear Algebra & Differential Equations, Calculus

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

Data Science Discovery Program **Berkeley, CA**

Undergraduate Researcher at the Quantitative Ecosystem Dynamics Lab *September 2022 — May 2022*

- **Spring 2023:** Evaluated the trustworthiness and effectiveness of carbon offset projects using a remote sensing-based evaluation method; performed linear regression and plotted slope differences by region, country, type, and voluntary registry
- **Fall 2022:** Developed a Google Earth Engine Web Application in JavaScript to map gross primary productivity (GPP); performed EDA and created Lasso, SVM, Random Forest, XGBoost, and MLP models for hourly and monthly GPP datasets

Vietnamese Traditional Dance Team **Berkeley, CA**

Finance Chair & Co-Coordinator *February 2022 — Present*

- Co-lead a team of ~10 dancers, fostering a collaborative & inclusive atmosphere while providing instruction on choreography
- Manage the team's finances by securing grants and fundraising opportunities to fund costumes, ensuring the team's financial sustainability and supporting the visual presentation of performances

PROJECTS

Data Science Discovery Program: US Carbon Credit Projects Evaluation | Project Poster *May 2023*

- Extracted remote sensing data to quantify trends and compare reported versus observed carbon sequestration.

Data Science Discovery Program: Google Earth Engine Web Application | Project Link *November 2022*

- Created a time series chart and a widget to view different years, allowing users to visualize and analyze global annual GPP.

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.

SKILLS

Computer: Python, Java, C, MIPS, Scheme, HTML, ArcGIS Pro, Google Earth Engine, ENVI | Adobe (Illustrator, Photoshop)
Languages: English, French, American Sign Language (basic)
Interests: Calligraphy, Graphic Design, Yoga, Fan Dance, Gardening, Hiking, Sustainable Fashion, Vietnamese Culture