

AILEEN WU

Berkeley, CA • aileenwu@berkeley.edu • linkedin.com/in/aileenwu • a-leenwu.github.io • (510) 984-8733

EDUCATION

University of California, Berkeley

August 2021 – May 2025

Bachelor of Arts in Data Science and Economics

GPA: 3.9 / 4.0

Awards: Intel Andy Grove Scholarship, British Columbia Achievement Scholarship

Activities: SAAS Berkeley, Cal Ski and Snowboard Team

Computer Science Coursework: Computational Structures, Data Structures and Algorithms

Data Science/Statistics Coursework: Principles and Techniques of Data Science, Probability for Data Science; Data, Inference, and Decisions; Data Mining and Analytics

Mathematics Coursework: Calculus, Linear Algebra and Differential Equations

Economics Coursework: Microeconomics (Math-Intensive), Macroeconomics (Math-Intensive)

University Transition Program

September 2018 – June 2020

High School Diploma

GPA: 93%

Completed high school in two years from an academically rigorous, accelerated program with top scores in mathematics

RESEARCH EXPERIENCE

Research Assistant, Moore Accuracy Lab

August 2022 – Present

- Conducting regression, clustering, and principal component analyses to longitudinally investigate aversion to economic redistribution measures while overseeing the design of a high-budget study

Research Fellow, Berkeley Opportunity Lab & Energy Institute at Haas

September 2023 – Present

- Mobilizing machine learning and high-performance computing to build a Bayesian mathematical model that determines the optimal siting of air pollution monitors for air quality regulation

Research Assistant, The People Lab

January 2022 – May 2022

- Scraped crucial information from thousands of pages of scanned PDFs/JPEGs of incarcerated individuals to be resentenced, overcoming inconsistent scans with optical character recognition and outputting a clean data frame
- Reduced the time an attorney needs to gather that information from several weeks to a few minutes
- Awarded Data Science Insights Runner-Up by the Data Science Discovery Program for impactful work in data science

CONFERENCE PRESENTATIONS

Moore, D. A., Choudhari, R., **Wu, A.** Does the Prospect of Upward Mobility Undermine Support for Redistribution?

Presented at Society for Judgment and Decision Making Annual Conference; November 2023; San Francisco, CA.

Wu, A. Analyzing Similarities in Trends Between Canadian and American Political Attitudes Through Electoral History.

Presented at Berkeley EECS & AI Research Symposium; April 2022; Berkeley, CA.

PROFESSIONAL EXPERIENCE

Data Science Consultant, GitHub

September 2023 – December 2023

- Used natural language processing, LLMs to classify repositories into industry categories for GitHub's internal use

Data Science & Machine Learning Intern, WisdomAIC

May 2023 – August 2023

- Built Bitcoin LSTM and random forest price prediction models in a GPU environment, achieving over 90% accuracy

TEACHING EXPERIENCE

Data Science (DATA 8) Undergraduate Student Instructor, UC Berkeley

January 2024 – Present

- Hosting 2 lab and discussion sections with 70 students total, mentoring a tutor and a team of 6 to 8 Academic Interns

AILEEN WU

Berkeley, CA • aileenwu@berkeley.edu • linkedin.com/in/aileenwu • a-leenwu.github.io • (510) 984-8733

Data Science (DATA 8) Undergraduate Course Tutor and Reader, UC Berkeley

June 2023 – December 2023

- Led 2 tutoring sessions of concept reviews, practice problems; fostered an inclusive learning environment
- Debugged code and explained concepts during office hours using creative examples and whiteboard visualizations

Statistics (STAT 20) Undergraduate Course Tutor, UC Berkeley

January 2023 – May 2023

- Implemented a Python program that automatically generated mid-semester grade report PDFs for all 730 students
- Analyzed and visualized academic performance data to identify struggling students, challenging topics, and gaps in pedagogical resources; made data-driven suggestions to professors to push for equity, inclusion in course structure

Data Science (DATA 8) Academic Intern, UC Berkeley

January 2022 – December 2022

- Assisted a weekly lab of 30+ students by teaching and answering questions about Python and data science concepts

PROJECTS

2D Interactive Maze Game | *Java, Git, Object-Oriented Programming*

November 2022

- Designed a graph data structure that generates unique tile-based worlds with random rooms and pathways
- Players can control the avatar with keys, collect items to escape the maze, and “replay” a saved game

VOLUNTEER EXPERIENCE

The Daily Californian

Research and Ideas Beat Reporter

May 2022 – August 2022

- Interviewed academic researchers on groundbreaking discoveries, generating two articles per week

News Reporter

January 2022 – May 2022

- Wrote two daily articles per week and covered large campus events, improved readership, produced trending stories
- Sourced interviews that represented a wide variety of perspectives to ensure fair coverage

SKILLS

Programming Languages: Advanced - Python, Java, SQL, R; Proficient - Linux, HTML, Javascript

Libraries: NumPy, pandas, scikit-learn, TensorFlow, PyTorch, matplotlib, seaborn, SciPy

Tools: Docker, Git, JUnit, Jupyter Notebook, VS Code, RStudio, Jira, Confluence, REST APIs

Languages: Mandarin, French, English