

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

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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