AILEEN WU

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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 & Project Lead, Moore Accuracy Lab - Berkeley Haas 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