Christine Fang

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EDUCATION

University of California, Berkeley – College of Letters and Science **Berkeley, CA**
Bachelor of Arts, Computer Science and Economics | GPA: 3.89/4.00 *2025*
Coursework: Machine Learning, Calculus I/II/III, Linear Algebra and Differential Equations, Statistics, Probability, Real Analysis, Signals and Systems, Data structures and Algorithms, Database Systems
Languages/Tools: Python, R, SQL, Java, C, CSS, HTML, Git, scikit-learn, PyTorch, NLTK, Pandas, SciPy

EXPERIENCE

Head Student Instructor **Berkeley, CA**
UC Berkeley EECS Department *June 2022 – Dec. 2023*
- Helped run and teach CS70: Discrete Mathematics and Probability Theory, a 800-student course
- Hosted office hours, taught a 35-student section, and managed student-faculty communications

Research Assistant **Berkeley, CA**
UC Berkeley Economics Department *Sept. 2023 – Dec. 2023*
- Cleaned text data and carried out exploratory data analysis on conflicts in India
- Performed sentiment analysis and text classification using NLTK and scikit-learn
- Used Google Geocoding API to geocoded conflicts and generated visualizations

Research Assistant **Berkeley, CA**
UC Berkeley Agricultural and Resource Economics Department *Jan. 2024 – Present*
- Investigated the impact of land conservation efforts on the build out of clean energy infrastructure
- Cleaned and analyzed panel data of power plants seeking grid connection using Python libraries
- Used NREL data and PySAM API to simulate electricity generation and estimate project profits

Research Assistant **Berkeley, CA**
UC Berkeley Economics Department *Jan. 2024 – Present*
- Conducted literature review, cleaned and created panel dataset using R
- Helped write and edit manuscript and book proposal

PROJECTS

World Building | Java
- Built tile-based exploration game with pseudorandom world generation
- Created GUI that allows saving/loading, user customization and object interaction

WordNet Viewer | Java
- Built Ngram-viewer that generates historical popularity of words in Google's Ngram dataset
- Implemented graph that maps the semantic relationship between words

Neural Networks | Python
- Built CNN, RNN and SVMs using Scikit-learn and PyTorch for classifying CIFAR-10 and MNIST
- Experimented with attention, batch normalization and hyperparameter tuning

Scheme Interpreter | Python
- Implemented core features for a lisp interpreter in Python using a recursive descent parser

LVMH | SQL
- Analyzed wholesale and ecommerce sales data and developed city analysis framework
- Presented recommendations to CFO of LVMH North America