

Stella Jia

✉ stellajia@berkeley.edu 🌐 stellajia.com in stellajia 🐙 github.com/sjia03

Education

Harvard Business School

Incoming Aug 2025

PhD in Technology & Operations Management (Innovation Track)

University of California, Berkeley

Aug 2023 - May 2025

BA in Data Science (Emphasis in Economics)

- GPA: 3.97/4.0
- **Relevant Courses:** Principles of Data Science, Applied Machine Learning, Causal Inference, Econometrics, Microeconomics, Decision Analytics, Human Context & Ethics of Data, Topics in Economics Research

University of California, Santa Barbara

Sept 2021 - June 2023

BS in Statistics & Data Science (transferred to UC Berkeley)

- GPA: 3.98/4.0
- **Relevant Courses:** Statistical Machine Learning, Bayesian Analysis, Experimental Design, Time Series, Linear Optimization, Data Structure, Computational Linguistics, Probability and Statistics, Regression Analysis, Digital Humanities, Philosophy of Science

Research Experience

Data Innovation and AI Lab at UC Berkeley

Berkeley, CA

Research Assistant for Professor Abhishek Nagaraj [\[working paper\]](#) [🔗](#)

Aug 2023 – Present

- Leading a project exploring the dynamics of generative AI and copyright; onboarding and delegating tasks to team of three undergraduate and masters students
- Design Python scripts for data scraping across different sites (ISBNdb, Goodreads, Wikipedia, etc) and running LLM experiments with OpenAI API; managing 403 GB of data on Haas remote server
- Run regressions in R/Python, draft research manuscripts and presented research results to global lab team
- Conduct literature reviews, interview domain experts, and make key decisions on evolving data sources

Harvard Business School

Cambridge, MA

Research Assistant for Professors Jacqueline Ng Lane and Léonard Boussioux

May 2023 – Sept 2023

- Selected as one of 28 fellows for PRIMO, a competitive undergraduate research program at HBS
- Explored impact of generative AI on innovation; acknowledged for research contributions in [paper](#) [🔗](#)
- Automated survey creation and data processing by building a Python script interfacing with Qualtrics, significantly reducing time of manual survey setup of 230+ question prompts
- Performed prompt engineering with OpenAI API for text classification of ideas into NAICS codes

Sensory Systems and Behavior Lab at UC Santa Barbara

Santa Barbara, CA

Research Assistant for Professor Matthieu Louis

Sept 2021 – July 2022

- Wrote a Python script that identified key larva movement based on speed and angle measurements
- Proofread 15 section documentation of Pi Virtual Reality software (PiVR) and edited lab site to ensure clarity and accuracy

Professional Experience

Amazon

Seattle, WA

Business Intelligence Engineer Intern

May 2024 – Aug 2024

- Constructed a 4-tab interactive dashboard in QuickSight visualizing 30+ customer metrics on package shipping details and post-order checkout page traffic across global marketplaces; presented to Director of Delivery Experience
- Built 30+ metrics by data engineering using SQL on large-scale datasets (25 billion+)
- Collaborated with PM, engineers, and economics team to understand data needs and change dashboard to

drive tangible business impact

NASA Langley Research Center

Data Science Intern

Remote

Aug 2022 – Dec 2022

- Used Tableau to create dashboards and Neo4j to create networks graphs that translate resource allocation and ongoing project data into intuitive visual insights for urban air mobility researchers
- Collaborated with engineering team to build a knowledge management platform used across researchers of 20+ teams to enhance accessibility to relevant information

Apex146 (sports analytics startup)

Data Science Intern

Santa Barbara, CA

June 2022 – Aug 2022

- Analyzed company performance data in Python across multiple action sports and wrote a business report presented to team and CEO; report findings were used to gain next round of funding
- Automated the creation of NFT racer tokens by pulling from database of racers using MySQL and Python

Extracurriculars

Peaks & Professors

Nov 2022 - Present

Hiking Trip Lead (at UC Santa Barbara) and Founding Member (at UC Berkeley)

- Lead hikes with students and professors from different departments and guide meaningful conversations

The Berkeley Forum

Aug 2023 - Present

Programming and Events Committee

- Inviting speakers of varying expertise to speak on campus and crafting insightful questions for the event

Department of Computer Science at UC Santa Barbara

Sept 2022 - June 2023

Undergraduate Teaching Assistant for Professor Richert Wang

- Conducted weekly office hours, providing guidance on data structures and algorithms for 275+ students

Daily Nexus (University Newspaper)

Jan 2022 - June 2023

Data Editor

- Managed team of 48 writers to cover pressing community concerns combining local and data-driven narratives
- Co-authored 5 articles, and facilitated and critically reviewed writing and data analysis of 19 articles

Projects

Shift of Knowledge Dynamics on Stack Exchange

[\[code & report\]](#) [↗](#)

Conducted an event study and wrote a 20 page report on the impact of ChatGPT's rise on 38 threads in Stack Exchange; finding that threads like philosophy and DIY saw an increase in posts while Stack Overflow (coding) saw a decrease.

Predicting Customer Behavior to Marketing Campaigns

[\[code & report\]](#) [↗](#)

Ran machine learning models in R (tidymodels) such as Random Forest, Logistic Regression, and Elastic Net, to predict customer response to marketing initiatives. Analyzed results with visuals in R (ggplot2).

Bayesian Analysis of Dog Aging

[\[code & report\]](#) [↗](#)

Constructed Bayesian hierarchical linear models in R (rstan, tidybayes) to analyze the metabolome of dogs and created an interactive R Shiny dashboard (developed for the [Dog Aging Project](#) [↗](#)).

Skills

Languages: Python (NumPy, Pandas, matplotlib, Seaborn, scikit-learn, Plotly, NLTK, BeautifulSoup, Selenium, OpenAI), SQL, R (ggplot2, tidyverse, tidymodels, dplyr), HTML, CSS, JavaScript, LaTeX

Technologies: Github, Jupyter Notebook, Tableau, VS Code, Notion, Figma, Adobe Suite