

EDUCATION

Stanford University**Stanford, California***Master of Science in Statistics and Data Science**September 2023 - March 2025*

- **Prospective Coursework:** Causal Inference / Theory of Statistics / Deep Learning / Natural Language Processing

University of California, Los Angeles**Los Angeles, California***Bachelor of Science in Applied Mathematics, minor in Statistics, specialization in Computing* *September 2019 - June 2023*

- **Coursework:** Machine Learning / Experimental Design / Computational Statistics with R / Optimization / Analysis of Algorithms / Mathematical Modeling / Probability
- **Projects:** [Logistic Matrix Factorization using Letterboxd User Data](#)
- **Honors:** Graduated *summa cum laude*, 3.98 GPA, UCLA Dean's List in all quarters

EXPERIENCE

Deep Learning Researcher | UCLA REU in Computational Math**Los Angeles, California***Research program in computational mathematics**June 2022 - March 2023*

- Implemented and optimized physics-informed neural networks in **TensorFlow** for solving multiscale partial differential equations
- Designed a hybrid deep learning and multigrid numerical process that outperforms benchmark methodologies for similar problems
- Developed unique architectures and implemented high-performance optimizers to build efficient, highly accurate neural networks
- Synthesized and presented technical research concisely at an academic symposium
- Co-author of an [academic paper](#) summarizing success, limitations, impact on field, and directions for future research

Analyst, Consultant | UCLA Data Science Union**Los Angeles, California***UCLA student-run organization working on independent and client-led data science projects**May 2021 - June 2023*

- Consulted for a food pantry locator nonprofit to identify and resolve bottlenecks in their data pipeline and engineer an integrated national food insecurity database
- Unified over **100,000** web scraped data points using Numpy, Pandas, and Beautiful Soup to develop a [random forest ensemble model](#) for predicting whether an MLB team would make the playoffs with up to **86%** accuracy
- Designed and presented a [live dashboard](#) featuring data visualizations of how local lockdowns and regulations impacted harmful contributors to climate change across California
- Applied unsupervised machine learning methods such as **K-means clustering** and **Gale-Shapley** algorithms to a dataset of over **10,000** individuals to help dating app startup [human](#) utilize the **Spotify API** in their matchmaking process

Events Director | UCLA Undergraduate Math Council**Los Angeles, California***Student-run organization fostering an inclusive undergraduate math community**September 2021 - June 2022*

- Spearheaded and moderated an inaugural speaker series discussing diversity and inclusion in mathematics, featuring guests including quantitative analysts with the LA Dodgers, and postdoctoral researchers at UCLA
- Coordinated and directed a series of informational and social events for math students throughout the academic year
- Led a team of 6 students to coordinate event promotion and logistics

TECHNICAL SKILLS

- **Programming Languages:** Python / R / Java / C++ / SQL / MATLAB / SML / Ruby
- **Machine Learning Methods:** CNNs / RNNs / GANs / SVMs / K-means Clustering / Self-organizing maps / Random Forests / Computer vision / Recommendation Algorithms
- **Databases and Frameworks:** MongoDB / Tableau / Hadoop / Data visualization