

Sophia Mirrashidi

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EDUCATION

University of Southern California

Master's of Science, Computer Science

Expected Graduation, May 2027

Los Angeles, CA

University of California, Santa Barbara

Bachelor's of Science, Statistics and Data Science, Minor in Anthropology

GPA: 3.94/4.0, Phi Beta Kappa, National Honor's Society

Sep. 2021 – June 2025

Santa Barbara, CA

EXPERIENCE

Apple Inc., AIML

Machine Learning Intern

June 2025 -Aug. 2025

Cupertino, CA

- Designed and implemented an audio deduplication pipeline for 100M+ internet-crawled records, achieving 99.98% precision and 99.97% recall.
- Contributed to higher-performing AI models used in Apple products by improving the quality and reliability of foundational training data.
- Established tailored criteria for audio deduplication across exact repeats, snippets, and acoustic variations, aligning with needs of various research and engineering teams.
- Facilitated collaboration with internal teams to adapt existing technology for deduplication use cases.

UC Santa Barbara, Qin Lab, REAL AI Initiative

Research Assistant

Mar. 2024 – June 2025

Santa Barbara, CA

- Experimented with fine-tuning strategies to improve the safety performance of LLaVA, an open-source LLM.
- Introduced an adversarial framework to LLaVA using PyTorch to refine image-to-text token projection.
- Benchmarked fine-tuned models on MMSafety Bench, VLMEval, and VLGuard datasets.
- Presented project updates and performance metrics to the principal investigator in weekly lab meetings.

UC Santa Barbara, Moeller Lab

Research Assistant

Sep. 2022 – June 2023

Santa Barbara, CA

- Fitted nonlinear models to estimate growth, grazing, and ingestion rates of 30+ ciliate predators using R.
- Built a structured database cataloging 130 predator-prey model fits and parameter estimates.
- Extracted and cleaned biological data from 1–3 academic papers weekly.

PROJECTS

Intact Tombs Data Analysis | *Jupyter, Statistical Testing, Data Analysis*

Mar. 2025 – June 2025

- Analyzed 134 New Kingdom tombs (Thebes, Egypt) to identify socioeconomic and cultural patterns in funerary practices under supervision from Dr. Stuart Tyson Smith.
- Applied K-Means clustering to archaeological data to identify underlying trends in tomb provisioning.
- Conducted PERMANOVA, PERMDISP, and pairwise distance analyses to evaluate robustness of tomb groupings from previous literature.
- Compiled results and insights into a written report currently awaiting publication.

Optimizing San Diego MTS | *Python, Git, MySQL, Simulated Annealing*

Sep. 2022 – Apr. 2023

- Won 1st place among 14 teams presenting at the UCSB Data Science Project showcase.
- Owned requirements definition and project planning for a 5-person team, managing timelines to ensure delivery.
- Applied simulated annealing in Python to optimize bus routes in the San Diego Public Transport System.
- Processed General Transit Feed Specification data in SQL to analyze transit routes and support optimization.

TECHNICAL SKILLS

Languages: Python, SQL (Postgres, MySQL), Scala, R

Frameworks: Spark, PySpark, Transformers, PyTorch

Developer Tools: Git, Docker, Google Cloud Platform, Databricks, Jupyter, Trino, Anaconda, DataGrips, VS Code

Libraries: pandas, NumPy, Matplotlib, Seaborn, HuggingFace, scikit-learn dyplr, tidyverse