

Marlene Lin

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EDUCATION

University of California, San Francisco - M.S. in Health Data Science 2023 - 2025

- Thesis: Tau topography subtypes account for clinical heterogeneity and longitudinal trajectories in early-onset Alzheimer's disease (*Brain Communications*. 2026;8(3):fcag176).

University of California, Los Angeles - B.S. in Computational Biology, Statistics 2019 - 2023

- Thesis: Ensemble Learning for Breast Cancer Lesion Classification: A Pilot Validation Using Correlated Spectroscopic Imaging and Diffusion-Weighted Imaging (*Metabolites*. 2023;13(7):835).

WORK EXPERIENCE

Edward and Pearl Fein Memory and Aging Center San Francisco, CA

Neuroimaging Data Analyst, Rabinovici Lab 2025 - Present

- Lead quantitative analyses across multiple neurodegenerative disease studies, integrating PET, MRI, fluid biomarkers, and clinical data to investigate disease heterogeneity and progression.
- Develop and maintain data pipelines, implementing new methods, automating workflows, and resolving data quality and processing issues.
- Collaborate with clinicians, imaging scientists, and statisticians to define analytic approaches, interpret findings, and prepare results for grant applications, conference presentations, and manuscripts.

UCSF Department of Anesthesia and Perioperative Care San Francisco, CA

Machine Learning Intern 2024

- Optimized machine learning models for perioperative transfusion prediction through feature engineering, hyperparameter tuning, and decision-threshold calibration.
- Benchmarked model performance against existing blood-ordering guidelines and clinician request patterns using retrospective and silent prospective electronic health record data.
- Developed performance visualizations and technical reports for UCSF Learning Health System reviews, communicating validation results to clinical and technical stakeholders.

UCLA Magnetic Resonance Research Labs Los Angeles, CA

Research Assistant, Thomas Lab 2022 - 2023

- Built MATLAB tools for processing, visualization, and annotation of multidimensional MRS data.
- Optimized deep-learning based MRS reconstruction algorithms for accelerated acquisition protocols.
- Developed machine learning classifiers using 5D MRS data for various disease-specific applications, including breast cancer, prostate cancer, and obstructive sleep apnea.

Kaisa Health Group Shenzhen, China

Telemedicine Operations Analyst 2021

- Directed regional healthcare-sector analysis across major cities to inform Direct-to-Patient service deployment.
- Analyzed medical resource distribution, health product sales, and community-level healthcare expenditures.
- Conducted pharmacy-chain field investigations and delivered reports supporting business acquisition planning.

TEACHING EXPERIENCE

UCSF Library Teaching Assistant San Francisco, CA

Data Science and Open Scholarship Team 2023 - 2025

- Co-taught workshops in data visualization, statistical analysis, and artificial intelligence for the UCSF community.
- Provided 1:1 statistical programming and data analysis consultations as well as developed relevant technical guides.

UCLA Undergraduate Learning Assistant Los Angeles, CA

Introduction to Computer Sciences II; Calculus of Several Variables 2022 - 2023

- Facilitated peer learning and fostered an equitable environment across STEM class discussions and workshops.
- Organized regular review sessions for students and worked with instructors to improve course structure and clarity.