

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, evaluate, and maintain data processing and analysis pipelines, implementing new methods and resolving data quality challenges.
- Collaborate with multidisciplinary teams to translate complex datasets into robust analyses, interpretable visualizations, and publication-ready results.

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.
- Evaluated MRS reconstruction methods and parameters for accelerated MRS protocols.
- Developed ensemble learning classification models using 5D MRS datasets spanning 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 machine learning for the UCSF community.
- Provided 1:1 programming and data analysis consultations and 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.