Marlene Lin

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EDUCATION

University of California, San Francisco	San Francisco, CA
- M.S. in Health Data Science	07/2023 – 06/2025
University of California, Los Angeles	Los Angeles, CA
- B.S. in Computational and System Biology, minor in Statistics and Data Science	09/2019 – 06/2023

SKILLS

Computer: Python · R · MATLAB · SQL · Microsoft Office · Windows · Linux/Unix OS
Languages: English · Mandarin · Cantonese

WORK EXPERIENCE

UCSF Library Data Science and Open Scholarship Team　　　　　　San Francisco, CA
Library Teaching Assistant　　　　　　　　　　　　　　　　　　　　10/2023 – Present
- Co-teach and assist with R and Python programming workshops on topics including data visualization, statistical analysis, and machine learning.
- Offer 1:1 programming and data analysis help to UCSF community members during the weekly data science help desk sessions.
- Assist with updating online course materials, creating subject guides and help articles, and presenting library resources to UCSF programs.

Kaisa Health Group　　　　　　　　　　　　　　　　　　　　　　Shenzhen, China
Operation Analyst Intern, Telemedicine Department　　　　　　　　　06/2021 – 09/2021
- Directed detailed regional analysis of the healthcare sector in major cities of China to provide insights on the department's Direct-to-Patient service deployment.
- Collected and analyzed data on medical resources distribution, international and domestic health product sales, and health expenditures of different communities.
- Conducted on-site investigations of various pharmacy chains and delivered relevant reports to support the department's business acquisition plan.

RESEARCH

Student Data Analyst　　　　　　　　　　　　　　　　　　　　　Los Angeles, CA
Rabinovici Lab, UCSF Memory and Aging Center　　　　　　　　　　11/2023 – Present
- Utilized Python and R to perform data processing and visualization tasks on neuroimaging data.
- Conducted robust data-driven clustering analysis on tau-PET data from sporadic early-onset Alzheimer's Disease patients within the LEADS Study.

Research Assistant　　　　　　　　　　　　　　　　　　　　　　Los Angeles, CA
Thomas Lab, UCLA Magnetic Resonance Research Labs　　　　　　　03/2022 – 07/2023
- Developed MATLAB applications for in-depth processing and annotations of multidimensional Magnetic Resonance Spectra data.
- Tuned parameters and assessed the performance of various MR Spectra reconstruction methods, reducing MR Spectroscopy scan time by at least two-fold.
- Construct ensemble learning models to classify breast tumors based on 5D MR Spectra quantitation, findings published in Ajin et. al, *Metabolites*. 2023; 13(7):835.

PROJECTS

Prevalence of Diabetes Screening and Nutrition Counseling　　　San Francisco, CA
- Characterized and compared prevalence across diverse demographic groups by employing advanced data query and statistical analysis on EHR data from UCSF Info Commons.　10/2023 – Present

NIH Grants & Funding Web-based Data Dashboard　　　　　　　Los Angeles, CA
- Developed an interactive NIH Grants & Funding Plotly dashboard to visualize and analyze project trends, including disparities in grant distributions through geospatial, efficiency, and demographic analyses.　01/2023 – 04/2023

Bone Age Assessment using Digital Radiography　　　　　　　　Los Angeles, CA
- Enhanced the accuracy of a deep learning model for bone age assessment by refining an attention-guided localization network with a label distribution learning approach and added features from the Digit Hand Atlas dataset.　12/2021 – 03/2022