

Eric Yang

Based in Los Angeles, California

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EDUCATION

University of California, Los Angeles

Bachelor of Science in Computational and Systems Biology, Departmental Honors
Concentration: Biological Data Sciences

Los Angeles, CA

2020-2024
2022-2024

University of California, San Francisco

Master of Science in Health Data Science

San Francisco, CA

2024-Present

RESEARCH

UCSF Department of Medicine

Data Science Specialist

- Contribute to an IRB-approved, grant-funded project developing AI tools to assist faculty in grading MS1 and MS4 OSCE performance.
- Process oral presentation transcripts and written documentation using Python (feature extraction, lemmatization).
- Build AI scoring pipelines with Versa API; apply random forests, Cohen's Kappa, and Cronbach's alpha to evaluate agreement with faculty grading.
- Target ≥80% accuracy to deliver timely, consistent feedback supporting medical student self-regulated learning.

San Francisco, CA

Apr. 2025 - Present

Hswen Lab

Graduate Student Researcher

San Francisco, CA

Oct. 2024 - Present

- Conduct large-scale text mining of 38K+ Reddit posts on nicotine pouches using PRAW API, lemmatization, VADER sentiment analysis, LDA topic modeling, and z-score metrics.
- Adapt convolutional neural networks (CNNs) and Vision Transformers (ViTs) to identify biomarkers for early ADRD detection from 180K retina images (UK Biobank) with AdamW Optimizer.

PITTAN Inc. / UCLA

Undergraduate Thesis

Los Angeles, CA

Sept. 2023 - Jun. 2024

- Investigated sweat amino acid content as a biomarker for skin health across six clinical criteria using machine learning models: moisturizing ability, firmness index, blemish prevention, saggy prevention, power of resilience, and stress prevention in amino acid categorization.
- Analyzed 500 trial samples collected at Kobe University; benchmarked sweat-based predictions against hospital biopsy analyses, evaluating cost-benefit tradeoffs.

Suthana Lab

Research Assistant

Santa Monica, CA

Mar. 2023 - Jun. 2024

- Analyzed neural signal processing from 1,000+ EEG datasets using MATLAB.

- Developed two machine learning tools to improve efficiency of neural signal analysis.

- Assisted in clinical trial design, including consent document drafting, patient coordination, and faculty shadowing.

Institute of Neuro Innovation

Data Analyst

- Supported clinical trials with 500+ patients testing VR audio therapy interventions for depression.
- Designed and tested three sound waveform therapy protocols; applied Poisson distribution and ML algorithms to classify treatment effectiveness.

Santa Monica, CA

Aug. 2022 - Feb. 2023

WORK EXPERIENCE

BOLERO Inc.

Tokyo, Japan

Lead Data Scientist

Apr. 2025 - Present

- Design and implement AI-driven music analysis products and internal database systems. Apply PCA, k-means clustering, Fourier transforms, and cosine similarity to analyze audio features from 100K+ multilingual tracks (Japanese, English, Mandarin) for predictive modeling, genre discovery, and artist-genre alignment.
- Develop a personalized AI manager to optimize scheduling and workflow, and build pipelines for comment sentiment analysis, time-series engagement profiling, and predictive promotion across major social media platforms.

PITTAN Inc.

Kobe, Japan

Chief Technology Officer

Jun. 2023 - Sep. 2023

- Developed python toolkit to supplement a raspberry pi gen 4 compatible logistical system to analyze amino acid chromatography from commercial sample sweat swabs.
- Led team project using neural networks to infer possible skin diseases and give score metrics to skin according to amino acid, fat, moisture value, and skin age approximation.
- Led team project to complete the PITTAN app for aesthetic representation from the machine learning data and data cloud security and successfully established in the Apple App Store.

SELECTED COURSEWORK

Biostatistical Methods; Clinical Epidemiology; Clinical Informatics; Biological and Artificial Neural Networks; Machine Learning in Genetics; Machine Learning in R; Machine Learning (Theory & Applications); EHR Data for Clinical Research

LEADERSHIP

Bruinlife, UCLA Student Media

Los Angeles, CA

Illustrations Editor

Sep. 2022 - Jun. 2024

- Managed a 12-member design team and produced weekly artwork for UCLA's yearbook and Bruinlife website

Taiwanese Culture Night

Los Angeles, CA

Front Stage Co-Director, Advisor

Jun. 2022 - Jun. 2024

- Directed a 50-member cultural performance at Royce Hall; coordinated staging, lighting, and sound.
- Raised \$30K in funding through campaigns and sponsorships.

SKILLS & INTERESTS

Programming: C, C#, C++, Java, MATLAB, Python, R-Studio

Technical: AI/ML, Clinical Design, Data Analysis, Imaging, Problem Solving (Top 5% AIME Math Exam).

Languages: English, Japanese, Mandarin.

Interests: Digital Illustration, Percussion (15 yrs.), Photography, Table Tennis (Top 3 HS Div.).