

# Eric Yang

Based in Los Angeles, California

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## EDUCATION

### University of California, Los Angeles

Los Angeles, CA

Bachelor of Science in Computational and Systems Biology, Departmental Honors

2020-2024

Concentration: Biological Data Sciences

2022-2024

### University of California, San Francisco

San Francisco, CA

Master of Science in Health Data Science

2024-Present

## RESEARCH

### UCSF Department of Medicine

San Francisco, CA

Data Science Specialist

Apr. 2025 - Present

- 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  $\geq 80\%$  accuracy to deliver timely, consistent feedback supporting medical student self-regulated learning.

### Hswen Lab

San Francisco, CA

Graduate Student Researcher

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

Los Angeles, CA

Undergraduate Thesis

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

Santa Monica, CA

Research Assistant

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 wavefront therapy protocols; applied Poisson distribution and ML algorithms to classify treatment effectiveness.

**Santa Monica, CA**

**Aug. 2022 - Feb. 2023**

## **WORK EXPERIENCE**

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### **BOLERO Inc.**

#### **Lead Data Scientist**

**Tokyo, Japan**

**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.**

#### **Chief Technology Officer**

**Kobe, Japan**

**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**

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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**

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### **Bruinlife, UCLA Student Media**

#### **Illustrations Editor**

**Los Angeles, CA**

**Sep. 2022 - Jun. 2024**

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

### **Taiwanese Culture Night**

#### **Front Stage Co-Director, Advisor**

**Los Angeles, CA**

**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**

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**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.),.