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

INTERNSHIP

PITTAN Inc.   **Kobe, Japan**

Chief Technology Officer   **Jun. 2023 - Sep. 2023**

Develop a folder of python csv to supplement a raspberry pi gen 4 compatible logistical system working to analyze amino acid chromatography from commercial sample sweat swabs. Lead 1 team project using neural networks to infer possible diseases and give score metrics to skin according to amino acid, fat, moisture value, and skin age approximation. Lead another team project to complete the PITTAN app using java for aesthetic representation from the machine learning data and successfully established in the App Store. Assisted in application security.

RESEARCH

Design a Skin Analysis Alternative Using Sweat Amino Acid Content   **Undergraduate Thesis**

Analyze sweat amino acid content to predict skin health through scoring six criteria: moisturizing ability, firmness index, blemish prevention, saggy prevention, power of resilience, and stress prevention in amino acid categorization. Used machine learning to test accuracy and predict sweat models to more accurate hospital skin biopsy analysis. Weigh costs and benefits between price and accuracy between two methods through trial testing at Kobe University with a sample size of 500.

SARS-CoV-2 Patient Lungs Effect on Lung Cancer   **Dec. 2023 - Present**

Set up trial design at UCLA Ronald Reagan hospital, acquire patient data, analyze genetic samples through machine learning and quantify qualitative data using convolutional neural networks. Using classification to divide into levels by lung images. Estimated project to be long term.

PROJECTS

EEG Analysis in PTSD Patients   **Mar. 2023 - Jun. 2024**

Suthana Lab   **Santa Monica, CA**

Used MATLAB for neural signal processing over 1000 patient EEG data and created charts, pie-charts, pareto charts, and graphs. Assisted in creating 2 efficient MATLAB files for AI analysis and machine learning methods. Assisted in designing one clinical trial, drafted consent documents, shadowing with professors and giving directions to patients.

NeuroVella VR Audio Therapy on Patients With Depression   **Aug. 2022 - Feb. 2023**

Institute of Neuro Innovation   **Santa Monica, CA**

Assist conducted clinical trials over 500 active patients, designed and experimented 3 sound wavefronts audio therapy files. Analyzed 500 patients signal processing data using poisson distribution and machine learning algorithms. Successfully divide patients into three categories of effectiveness.

Cerebral Cortex Signal Processing and Bioimaging in Primates   **Sep. 2021 - Jun. 2022**

Arisaka Lab   **UCLA**

Assisted design 1 algorithms csv file for bioimaging and linear transformations. Research and provide information brain and drug neural pathways, stimulus and response, and give and reward systems and propose potential simulations in python.

COURSE EXPERIENCE

Algorithms	**Spring 2024**
Biological Modeling: Mathematical and Computational Approaches	**Spring 2024**
Learning in Biological and Artificial Neural Networks	**Winter 2024**
Principles of Epidemiology	**Winter 2024**
Machine Learning Applications in Genetics	**Fall 2023**
Computational Neuroscience for Interdisciplinary Scientists	**Spring 2023**
Introduction to Biostatistics	**Spring 2023**

LEADERSHIP & INVOLVEMENTS

Bruinlife, UCLA Student Media   **Los Angeles, CA**

Illustrations Editor   Sep. 2022 - Jun. 2024

Oversees the organization's artworks and 12 member staff within the section, produces one artwork from each staff every week according to suitable themes, involves in the UCLA year book and layout illustration with other divisions. Design with Adobe Suite, Procreate, Ibis Paint X.

Taiwanese Culture Night   **Los Angeles, CA**

Front Stage Co-Director, Advisor   Jun. 2022 - Jun. 2024

Wrote a script for 50 cast members, performed at UCLA Royce Hall. Raised 30k funds for Royce Hall rental from SPARK campaign, Go-fund me and Chinese school sponsorships. Four fundraisers on campus and outreach emails to potential donors. Lighting and sound allocation during the show.

Anime Geijutsu Art and Music Club   **Los Angeles, CA**

Co-founder & Arts Director   Sep. 2023 - Jun. 2024

First club at UCLA dedicated to J-pop music and anime music art. Raised funds to rent Art Gallery space on campus and plan to hold an exhibition during Spring 2024 with a group of 8 artists.

Tong Li Publishing Co.   **Taipei, TW**

Manga Editor & Translator   Jun. 2020 - Apr. 2024

Translate from Japanese to Mandarin over 20 manga books and novellas. Involved in Cover illustration and content polishment. Oversees the whole translating process and leads a team of 15.

Mega Financial Holding   **Songshan, TW**

Assistant Accountant Internship   Sep. 2020 - Mar. 2021

Assisted quantify over 3000 documentations and money revenue, costs, and profit. Assisted company into over 5% profit in the division.

TOEFL and AP Calculus BC Tutor

Self-Employed   Jun. 2019 - Jun. 2024

Tutored 6 highschool students and one college student in TOEFL and Calculus. Improved an average of 20 points in grade percentage and 25 points in TOEFL iBT. Successfully mentored them to reach top 10 universities in Taiwan and University of California Santa Barbara Graduate physics.

SKILLS & INTERESTS

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

Suites: Microsoft Office (Word, Excel, Powerpoint, OneNote), **Adobe** (Audition, Illustrator, Lightroom, Premiere Pro).

Academics: Clinical Design, Data Analysis, Genetics, Introductory AI, Machine Learning, Problem Solving (Top 5% AIME Math Exam)

Languages: Japanese (N2), Mandarin (native). **Interests:** Percussion(15 yrs.), Photography, Table Tennis (Top 3 HS Div.), Dig. Illustration.