

Edward Liu

UCSB '30 Data Science and Statistics

Contact Me!

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 edwardjliu.com

Education

University of California, Santa Barbara

Expected Graduation 2030
B.S. Statistics and Data
Science

Los Altos High School

Graduated June 2026
4.46/4 GPA

Notable Coursework

Multivariable Calculus: Math
1C (Foothill College) and 1D
(De Anza College),
Discrete Math: Math 22
(Foothill College)
Intro to CompSci: CS50x
(Harvard x)

AP Calculus BC (5), AP
Physics C Mechanics (5), AP
Physics C E&M(5), AP
Statistics (5), AP Chemistry
(5), etc

Skills:

MS Office • Python • C++ •
Javascript • React • SQL •
Supabase • Git

Statistics • Machine Learning •
Prompt Engineering •
Leadership • Project
Management • Outreach •
Teamwork • Problem Solving

English • Mandarin (Spoken)

Research/Professional Experience

University of Southern California (24-25)

- Research intern under Professor Wei Wu at Department of Electrical and Computer Engineering
- Worked on AI detection of heart attack biomarkers using Raman spectroscopy
- Focused on data processing and model evaluation
- Published paper in ACS Applied Biomaterials

University of Michigan (25-26)

- Research intern under Professor Ji Zhu at Department of Statistics
- Worked on generation of realistic & ethical synthetic health records using statistical models
- Self-studied Understanding Deep Learning by Simon Prince

Projects/Extracurricular

FRC Robotics (22-26)

- Scouting Lead of FRC Team
- Developed and maintained Eaglescout, a scouting app that is used by multiple robotics teams across different countries with hundreds of users
- Managed 30+ team members' jobs and roles during competitions
- Led strategy meetings during design process and competition based on collected data

LAHS Mock Trial Club (22-26)

- Served as President of the Mock Trial Club.
- Organized practices, coordinated scrimmages, and reached out to volunteer attorney coaches.
- Developed case theories and presented arguments during competitions.

Archery Coaching (24-Present)

- Certified Level 1 Coach with USA Archery
- Private lessons for kids aged 8-15 with hourly rate of \$80
- Organized and coached archery camp with 40+ kids in summer 2025

Predicting Smartphone Addiction (2026)

- Built a machine learning model to predict digital addiction using 691k records of user behavior
- Used regression imputation to estimate missing values from related variables and created new features
- Tested CatBoost, LightGBM, and XGBoost and used ensemble learning to combine their predictions into a stronger model, achieving a ROC-AUC of 0.9664