

Katherine Lee

Irvine Valley College | (949)-201-3026 | skyix157@gmail.com

EDUCATION

Irvine Valley College — Irvine, CA
A.S. in progress | Class of 2028
GPA: 4.00/4.00

Irvine High School - GED Completed
GPA: 3.69(W), 3.37(UW)

AP: Computer Science A (5), Precalculus (5)

ACT: --/36

Dual Enrollment: Intro to Statistics (A)

Research/ Project

Diagnosing Inequality: The Promise and Limits of AI in Bridging Healthcare Gaps

Co-Author | Stanford Entersect Journal

Studied how AI tools interpret medical data across demographics to evaluate diagnostic accuracy and reduce healthcare inequities.

AI-Powered Digital Stethoscope for Remote Diagnosis in Underserved Communities

Sigma Xi Regional Competition – 1st Place | 11th grade

Built MATLAB signal-processing pipeline (FFT, spectrogram analysis, filter design) for AI-based classification of heart, lung, and bowel sounds.

An Open, Harmonized Genomic Meta-Database Enabling AI-Based Personalization of Adjuvant Chemotherapy in Early-Stage Non-Small Cell Lung Cancer

Co-Author | Research Intern Under Dr.Hoji Moon, Dept.of Mathematics, CSULB

Curated and processed genomic data across multiple patient cohorts using statistical batch-correction methods; built results tables for published study.

Experiences

Social Media Lead – B Team Up Volunteer (BTU)

August 2025 – Present

Managed outreach campaigns for hospital art therapy and social impact projects; designed digital media and applied engagement analytics to grow audience reach.

Private Tutor — Mathematics & Chemistry

July 2025 – Present

Designed individualized lesson plans and problem sets for high school students.

Community Service & Volunteer

Sun Mar Nursing Center - Art Therapy

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Honors & Awards

Awards

AIME Qualifier (2×)

MathCon Competition — Sophomore Silver Medal (National)

NMSC Math Competition— Sophomore 2nd Place (Regional)

UT Dallas High School Investing Competition - Top 50 (10th grade)

Conrad Challenge - Conrad Innovators “HealthUnity” (11th grade)

ACS Cancer Awareness Social Media Competition - Outstanding Recognition (11th grade)

Scholastic Art & Writing Awards — Gold Medal, Photography (11th grade)

Programs

BrainBee Participant, 10th grade

UCI Ethics Summer Program, 2025 Summer

