

Education

Claremont High School	2020 - 2024
<i>17 AP classes, one dual enrollment class with Citrus College</i>	<i>Valedictorian, GPA: 4.6</i>
Pomona College (Visiting)	2022 - 2024
<i>Calculus III, Linear Algebra, Real Analysis, and Complex Analysis.</i>	<i>GPA: 3.9</i>
Harvey Mudd College (Visiting)	2023 - 2024
<i>Differential Geometry and Abstract Algebra.</i>	<i>GPA: 3.8</i>
Fudan University (Visiting)	2025
<i>Complexity theory.</i>	<i>GPA: 4.0</i>
UC Berkeley	2024 - 2028
<i>Declared Electrical Engineering/Computer Science Major, Mathematics double major.</i>	<i>GPA: 3.85</i>

Programming Skills

Programming Languages:

- Python, 7 years of experience
 - PyTorch, Tensorflow, OpenCV, Pandas, Sklearn
- Java, 1 year of experience in Robotics
- Numerical packages: Scipy, Numpy through physical simulations in related coursework

Teaching Experience

Tutoring	2025-
<i>Math/CS</i>	
• Math tutor for Berkeley Math Circle Elementary for grades 1-4 • Teaching DeCal "Quantum Algorithms" • Tutor for Compsci 70, including office hours, discussion help, and grading	

Programming Projects

Congressional App Challenge: The Lexical App	2022-2023
<i>A Vocabulary learning app</i>	
• Used the Python Kivy app development module and developed the app from scratch. • Widgets are custom designed using Adobe Illustrator. • More than 2000 lines of code, split between front and back end.	
Program for Early diagnosis of Autism	2021-2022
<i>An artificial intelligence program to aid autism detection</i>	
• Used Tensorflow to build custom CNNs to test out emotion detection. • Supplied patients with psychology quizzes to aid diagnosis accuracy. • 2nd place achieved: Intel AI global impact festival, category: AI impact creators, 13-18 years old	
iQuhacks 2026: A Quantum Distillation Game	2026
<i>IonQ challenge for iQuHacks Quantum Hackathon</i>	
• Developed quantum distillation algorithms using DEJMPS • Developed classical path finding algorithms for their networking game • Reverse engineered noise channels by circuit testing • Presentation	

Coursework and student involvement

Involvement

2024-

President of Quantum Computing at Berkeley (QCB)

- Lecture series on linear algebra and quantum mechanics.
- Manages financial affairs, webmaster.
- Decal on Quantum Algorithms.

Outreach officer of Society of Physics Students (SPS)

- Organized events for high school students.

Officer of Mathematics Undergraduate Student Association (MUSA)

- Manages and maintains the website.

Editorial board for Undergraduate Comparative Literature Journal (CLUJ)

- Editor and webmaster.

Notable coursework

2024-2026

Physics

- Quantum Field Theory (151), Quantum Mechaincs (137A/B), Quantum Computing (C191B)

Mathematics

- Differential Topology (214), Partial Differential Equations (222A), Graduate Algebra (250A), Algebraic Geometry (143)

Computer Science

- Machine Learning (189), Algorithms (170), Security (161), Complexity theory (172)

Research Experience

ATLAS Open Data

2026-

Manages metadata/data curation for ATLAS Open Data, including keyword management, data transfer protocols, and knowledge about the CERN database.

Honors and Awards

Claremont High School Valedictorian

2024

Rank 1 out of a class of about 500.

USACO

2020 – 2021

Gold Division, achieved Feburary 2021.

Congressional App Challenge

2022

Honorary mention. Submitted with the Lexical App. Congresswomen Judy Chu personally present at award.