

Emily Zhang

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EDUCATION

Stanford University

Stanford, CA

B.S. in Computer Science (AI Concentration) & B.A. in Art Practice

Class of 2026

- Relevant Coursework: Programming Abstractions, Computer Organization & Systems, Blockchain Foundations, Modern Mathematics: Discrete Methods, Linear Algebra, Real & Complex Analysis, Design Sketching

Cherry Creek High School

Greenwood Village, CO

GPA Weighted: 4.8 | Unweighted: 4.0 | SAT: 1600 | AMC 12: 118.5

Aug. 2018 – May 2022

- Relevant Coursework: AP Computer Science A (5), AP Calculus BC (5), AP Drawing (5), Data Structures & Algorithms, iOS App Development, Calculus 3/Differential Equations

RELEVANT EXPERIENCE

AquaRealTime, Algae-Tracking Environmental Technology Startup

Boulder, CO

Software Development Intern

Jul. 2022 – Sep. 2022

- Developed graph annotation feature in Vue.js for algae tracker users to log, view, and track weather and treatment events against phycocyanin and chlorophyll-a values
- Built an ML algorithm with principal component regression and multivariate regression that predicts effects of buoy temperature, water temperature, and light on PC/CA levels, allowing more accurate algae detection

Regeneron International Science & Engineering Fair (ISEF)

Jul. 2020 – May 2021

Machine Learning Researcher

Project Title: “Fusing LiDAR and Camera Data for Advanced Context Recognition in Autonomous Navigation Sensory Systems through Multidimensional Deep Neural Network Architectures”

- Created novel Python LiDAR/Camera sensor fusion system that uses VoxelNet and visual-CNN in performing more robust object detection and classification of street objects on KITTI autonomous driving dataset
- The architecture reached average precision of 93.62, significantly outperforming previous metrics
- Wrote final research paper in LaTeX, presented paper and fair board at Colorado SEF and Regeneron ISEF

LEADERSHIP EXPERIENCE

Stanford ASES, Stanford's Global Entrepreneurship Society

Stanford, CA

Bootcamp Fellow

Sep. 2022 – Current

- Selected as 1 of 40 Fellows out of 200+ Stanford students for ASES Bootcamp
- Attending entrepreneurship workshops and speaker series with VCs and founders to develop a minimally viable product and startup pitch with a team of other Bootcamp members

Ross Mathematics Program, Proof-based Summer Math Camp

Columbus, OH

Junior Counselor

Jun. 2021 – Aug. 2021

- Attended 2020 Ross Math Program and returned as a Junior Counselor for summer 2021
- Taught first-year students number theory, graded problem sets, lectured on integer partitions, and led problem seminars, attended advanced classes in geometric group theory

AWARDS & ACCOLADES

- MIT Math Prize for Girls & AIME Qualifier
- Regeneron ISEF Finalist & Special Award Winner
- 2022 Congressional Art Competition Winner, Winning Piece at U.S. Capitol until July 2023
- USA Computing Olympiad Gold Qualifier
- 4x National Scholastic Art Medalist; Exhibited at Denver Art Museum, Parsons School, Carnegie Hall ([Art Portfolio](#))

SKILLS

Software: Jupyter, VSCode, Overleaf, Google Colab, Xcode, Eclipse, Excel, Procreate, Adobe Illustrator, Figma

Coding Languages & Frameworks: Java, Python, C++, JavaScript, HTML/CSS, Vue.js, React, LaTeX

Natural Languages: Mandarin Chinese (Bilingual proficiency)