Emily Zhang

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EDUCATION

Cherry Creek High School   Greenwood Village, CO
High School Diploma   August 2018 – May 2022
- GPA Weighted: 4.8 | Unweighted: 4.0 | SAT: 1600 | AMC 12: 118.5
- Relevant Coursework: AP Computer Science A (5), AP Calculus BC (5), AP Drawing (In Progress), Data Structures/Algorithms, iOS App Development, Calculus 3/Differential Equations (CU Denver Dual-Enrollment)

Stanford Online High School   Redwood City, CA
Part-time Mathematics Enrollment   August 2021 – May 2022
- Currently taking three semesters of online advanced math: Linear Algebra, Real Analysis, Complex Analysis

RELEVANT EXPERIENCE

Cherry Creek High School Art Teacher Assist   Greenwood Village, CO
TA for Ms. Alissandra Seelaus, 7 hr/week   August 2021 – May 2022
- Help Drawing 1&2 students accumulate realism skill by guiding students on assignments and holding a feedback session outside of class for one period each day

Ross Mathematics Program   Online
Junior Counselor, 40 hr/week   June 2021 – August 2021
- Attended 2020 Ross Math Program, one of the top five most prestigious HS math programs in the U.S., returned as a JC for Summer 2021 upon counselor recommendation to teach and learn
- Taught first-year students number theory, graded problem sets, lectured on integer partitions, led problem seminars, attended advanced classes in geometric group theory

Cherry Creek High School Advanced Science Research Program   July 2020 – May 2021
Independent Math/CS Researcher, Project Title: "Fusing LiDAR and Camera Data for Advanced Context Recognition in Autonomous Navigation Sensory Systems through Multidimensional Deep Neural Network Architectures," 7 hr/week
- Extensively researched recent ML publications and enrolled in online AI coursework to create novel Python LiDAR/Camera sensor fusion system that uses VoxelNet and visual-CNN in performing more robust object detection and classification on KITTI autonomous driving dataset, mentored by Dr. Timothy Donahue (CCHS)
- Wrote final research paper in LaTeX, presented paper and fair board at Colorado SEF and Regeneron ISEF

LEADERSHIP EXPERIENCE

Cherry Creek High School Fine Print, Art & Literary Magazine, *Art Editor & Artist*   2019 – current
- Organize weekly meetings to curate/review student work submissions, design unique layout and theme for each biannual edition, publish digital and print editions, coordinate outreach

Cherry Creek High School Tech Club, *President (11th, 12th), Vice-President (10th)*   2018 – current
- Organize ACSL, TSA, and USACO contests for 40 members, contact professional speakers/sponsors, coordinate CS volunteering opportunities for club members, lead fundraising initiatives
- Teach ACSL topics (computer number systems, recursion, Boolean algebra, etc.) at weekly meetings, led school team to ACSL National Finals (2020 & 2021)

Cherry Creek High School Math Team, *Team Captain (11th, 12th)*   2016 – current
- Competed on HS Math Team since 7th grade; rigorously trained for AMC/AIME series and proof contests involving combinatorics, advanced geometry, etc.; increased studying load to 20+ hrs/week in 10/11th grade
- Organize weekly meetings and contests, including CCHS's first out-of-state tournament (HMMT Feb. 2020), teach 45 students weekly from self-made competition math curriculum and problem sets

AWARDS & ACCOLADES

- MIT Math Prize for Girls, AIME Qualifier
- Regeneron International Science and Engineering Fair Finalist & Special Award Winner ($7k total)
- USA Computing Olympiad Gold Qualifier
- 2x National Scholastic Art Gold Medalist; Exhibited at Denver Art Museum, MCA Denver, Parsons School, Carnegie Hall

SKILLS

Software: Microsoft Office, Jupyter Notebook, Google Drive, Overleaf, Google Colab, Xcode, Eclipse, iPad Procreate
Coding Languages: Java, Python, LaTeX   **Human Languages:** Mandarin Chinese (Bilingual proficiency)
Art Mediums (separate arts résumé available on request): Colored & Graphite Pencil, Watercolor, Ink, Digital Painting