Jerry Wang

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EDUCATION: St. Margaret's Episcopal School, San Juan Capistrano, CA (2018-Present)

    9th-11th Academic Weighted GPA: 4.34/5.0
    9th-11th Total Unweighted GPA: 3.82/4.0
    SAT: 1540/1600 (Math 790, Reading and Writing 750) (2024)
    PSAT: 1460/1520 (Math 760, Reading and Writing 700) (2024)
    AP: AP Physics C Mechanics, AP Latin, AP MACRO, APUSH, AP CSP, AP CSA, AP Calc AB, AP Calc BC, AP Literature, AP Bio: 10

HONORS AND AWARDS:

National:
- 1st place winner GameGala (2024)
- Performed in Carnegie Hall (2022)

State/Regional:

School:
- 5 time Head of School Honors (2022-Present)
- President of Esports Club (2023-Present)
    - Hosted Upper School events
    - Competed against other schools
- Stage Crew Tech for Upper School Plays (2022-Present)

EXTRACURRICULAR ACTIVITIES:
- Working as a volunteer for the OC Discovery Cube (2023-Present)
- Co-Authored a Research Paper published on ACS Nano on the application of nanotech for spatial optics (2024)

AI Pup Trainer
2023 – 2024

- Built a device that **trains dogs using image detection + ML**; integrated camera, inference, and actuator control.
- **Published a research paper** at the **SIPM conference (2024)** documenting approach and results.

Robotic Recorder (UPenn ESAP — Robotics)
Jul 2025

- Designed and built a **Wi-Fi-controlled recorder** as part of a robotic orchestra; implemented electronics, firmware, and mechanical actuation to play MIDI-driven songs.

SUMMER EXPERIENCE:

 - Attended a 4 week program at Johns Hopkins called Explore Engineering Innovation. Learned the basics and intricacies of being an engineer. Lived on campus and connected with many future aspiring engineers. Inspired me to continue pursuing a career in engineering. (June 2023 - July 2023)
- Participated in a 3 week program at Upenn ESAP specializing in Robotics. Learned about electronics, circuitry, Arduinos, and design processes. Created a robotic recorder as a part of a robotic orchestra, able to play any song transmitted through WiFi. (July 2025 - July 2025)

WORK/INTERNSHIP EXPERIENCE:

Research Intern — University of Southern California (Biomedical Engineering)
Jul 2024

- Studied environmental impact of **MRI and CT contrast agents**; surveyed mitigation approaches (e.g., removal and degradation pathways).
- Summarized findings for internal notes and discussions.

Technical Assistant — Hura Imaging (USC-affiliated medical imaging startup)
Jul 2024 – Dec 2024

- Supported **server maintenance and home-based data streaming** for imaging workflows.

Research Intern — Tulane University
Jul 2024 – Aug 2024

- Explored applications of **machine learning for TB drug-resistance identification**; conducted literature review and assisted with data prep/analysis.

Business/Conference Intern — Intelligenome (ADLM, 2024)
Jul 2024

- Supported outreach for **CRISPR-based TB detection** kits; engaged prospective partners and collected product-feedback notes.