Evan Xiang

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EDUCATION

Shady Side Academy Senior School   Pittsburgh, PA
High School Diploma   Sep 2022 – May 2026
GPA: 3.94/4.0

- **Relevant Advanced Coursework:** AP Computer Science (CS550), AP Calculus BC (MA570), Advanced Biology (BI400), AP Biology, AP Chemistry, AP Environmental Science, Introduction to Bioengineering (OCW), Biomechanical Tissue Engineering (OCW), Molecular and Cellular Pathophysiology (OCW)
- **Clubs and Activities:** Science Olympiad Captain, SSAHacks Co-Director, CPCS Club/Silicon Director of Operations, Science Departmental Associate, Speech and Debate, Science Fair

Awards and Honors

USA Biology Bowl Semifinalist   2023
Science Olympiad National Medalist – 2023 at Wichita State University   2023

- 2nd in Storm the Castle – Trebuchet
- 4th in Meteorology
- Top 10 in Anatomy and Physiology, Flight, and Experimental Design
- Captain of team – Lead team to an 8th place finish, finishing ahead of the 1st place PA team.

Science Olympiad State Medalist – 2023 at Penn State Altoona.   2023

- State Champion in Meteorology and Experimental Design
- Runner up in Flight and Anatomy and Physiology
- 3rd place in Storm the Castle
- Led team to National Qualification, placing 2nd in the state.

Science Olympiad National Medalist – 2022 online through CalTech

- 3rd in Experimental Design
- 5th in Sounds of Music
- 5th in Electric Wright Stuff
- Captain of team – Lead team to an 11th place finish

Projects and Papers

CardioGuardian: A Novel ECG Algorithm for Early Detection of
Contributory Factors to Sudden Cardiac Arrest   2022

- Utilizing PyTorch and PyTorch Lightning to develop a novel algorithm to rapidly upscale and classify pathology derived from a simple cost-effective ECG device to mitigate cost associated with IOC recommended 12-lead Electrocardiography.
- Work submitted to PJAS, PRSEF, and MIT THINK
- Developing a Comprehensive Screening System for the early detection of contributory disorders to Sudden Cardiac Arrest.

Leadership

Science Olympiad Captain   2021-Present

- Lead a team of over 60 people to compete at various invitational, regional, and national level tournaments.
- Placed 3rd place at Kenston, Mentor, and Solon Invitationals, winning the University of Michigan Invitational Tournament, and placing 2nd at the Pennsylvania State Tournament
- Helped organize a 7-day trip to the Science Olympiad National Tournament, working closely with coaches to plan all aspects of booking. Team placed in the Top 10 in the Nation, receiving an 8th place trophy.

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