

Dylan Shen

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Education

Cornell University

Ithaca, NY

Mechanical Engineering. GPA: 3.825/4.0

Class of 2028

Relevant Coursework: Multivariable Calculus, Differential Equations, Linear Algebra, Physics I Mechanics and Heat, Physics II Statics and Mechanics of Solids, Dynamics, Thermodynamics

Awards: Hunter R. Rawlings Cornell Presidential Research Scholar

Smithtown High School East (Advanced Regents Diploma)

Smithtown, NY

GPA: 4.82 weighted out of 4.4; SAT: 1580

Class of 2024

Awards: Regeneron STS Semifinalist; National Merit Finalist; LISEF 3rd Place; STANYS Outstanding High School Science Senior; AMC 10/12- AIME qualifier (2022,2023,2024); LISC Honors Award; ASHG DNA Essay Honorable Mention; NYSSMA All-State Nomination (Piano)

Experience

Bonnassar Lab (Department of MAE/BMEME at Cornell)

Ithaca, NY

Research Intern

Spring 2025 - Ongoing

- Conducting a research project to assess the synergy effect between Hyaluronic Acid and recombinant equine Lubricin, and if/how it leads to decreased friction coefficients for articular cartilage.
- Developing skills related to biomedical engineering, and gaining experience with working within a formal lab setting. Improving general wet lab, data analysis, and coding skill.

Terrer Lab (Department of CEE at MIT)

Remote

Research Intern

Summer 2023

- Conducted a research project on developing a novel computer algorithm to identify areas of deforestation incursion from satellite imagery.
- Project was done largely independently, with some assistance from the lab. A final version of the Python program produced by the project was delivered. Project was submitted to multiple high-school level research competitions, along with a 20-page paper written entirely in Latex.

Leadership & Activities

Ring of Steel - Ithaca

Ithaca, NY

Armorer

Fall 2024 – Ongoing

- Studying historical sword techniques and stage combat, and teaching aforementioned to newer members.
- Choreographing, practicing, and performing stage fights from various movies and other media.
- Cataloging and maintaining the club's inventory of steel stage prop weapons.

Skills & Interests

Technical: Proficient in Excel, Latex, Python, Java, Matlab, Autodesk Fusion.

Language: Working proficiency in Chinese.

Laboratory: Proficient with 2-axis tribometer, DHR-3 Rheometer, Sterile/Nonsterile condyle dissection.

Interests: Stage combat, creative writing, Historical European Martial Arts, Archery