

Sam Zarou
20 Wood Lane, Locust Valley, NY, 11560
Sammyz306@icloud.com | (917) 391-7292

EDUCATION

Locust Valley High School, Locust Valley, NY

Expected Graduation, 2025

- GPA: 4.00 (unweighted) 4.35 (weighted), High Honor Roll
- Advanced Coursework includes Multivariable Calculus, Mandarin (7 years), AP Computer Science A, IB Physics HL, IB Economics SL (5), IB English HL, IB History of the Americas HL, AP Language and Composition (5), AP World World History: Modern (4), and AP Calculus BC (5)
- 4 AP Courses (7 total AP tests), 4 IB Courses, ACT: 35

ACTIVITIES

Do Unto Others Youth Group (DUO), Locust Valley, NY

June 2022 - Present

Founder & Chairman

- Founded youth organization (www.duoyouth.com) focused on fostering community engagement with local homeless population through art workshops, other creative initiatives, and general outreach
- Produced HOME art exhibit at Glen Cove Library, and spearheaded weekly leadership meetings with a cross section of local community and non-profit organizations
- Partnered with North Shore Sheltering Program, Bring America Home Now, Penny's Flight, NOSH food pantry and delivery service, Glen Cove Public Library, St. John's of Lattingtown, and Glen Cove HS among others

Brookhaven National Lab High School Research Program, Upton, NY

Summer 2024

Research Intern

- Designed, integrated, and tested 3-dimensional helmholtz coil configuration using Fusion 360 and various 3D printing software
- Joined 4 person team working on quantum sensing project using electromagnetically induced transparency to detect magnetic field vector
- Worked over 300 hours during 6 week period

High School Science Research Pathways, Hofstra University, Hempstead, NY

Summer 2023 - Present

Senior Research Intern

- Worked under Dr. Fernando Espinoza to create an Environmental Profile of Long Island by gathering, synthesizing, and analyzing Particulate Matter (PM), decibel (dB), and Radio Frequency (RF) measurements
- Enhanced research with various data science methods including data enrichment, transformations, visualizations, and geo-mapping
- Submitted research to Long Island Science and Engineering Fair and Long Island Science Congress to provide public with safety and climate related imperatives

National Coalition of the Homeless Mentorship, Washington, D.C.

Summer 2024 - present

Virtual Intern

- Researched congressional policy, consolidated findings into concise legislative scorecards for 65 congresspeople
- Constructed policy workshops on google slides to educate the upcoming generation on how to lead efficient lifestyles
- Participated in biweekly national policy calls and witnessed the effectiveness of activism within US government

OTHER

- Full Time Dock Hand, Oyster Bay Marine Center (Summer 2022, 2023, 2024)
- Awards: Honorable Mention, Long Island Science Congress (2023); Designated AP scholar with Distinction; Certificate of Completion for Summer Research, Hofstra University; National Honor Society member
- Weekly mandarin lessons to build language proficiency and cultural understanding for 8 years
- Private math, science, english, and history tutor

References available upon request