

Academics

- Senior, Briarcliff High School | Cumulative Weighted GPA: 104.5
- SAT Scores – SAT: 1550, PSAT: 1500 | Subject SAT Scores – Biology: 790, Math II: 800, World History: 780
- AP Scores – Statistics: 5, World History: 5, Calculus BC: 5, Chemistry: 5, US History: 5, English Language and Composition: 5, Physics I: 5, Physics C: Mechanics: 5
- Coursework – AP Macroeconomics, AP US Government and Politics, AP Literature and Composition, AP Physics 2, AP Physics C: Electricity and Magnetism, AP Spanish, College Multivariable Calculus and Differential Equations

Awards and Honors

- Valedictorian, Briarcliff High School (2021)
- Yale University Book Award (2020)
- Briarcliff High School Book Award for Excellence in English Grade 11 (2020)
- National Merit Finalist (2020)
- U.S. Chemistry Olympiad National Finalist (2020)
- International Avogadro Chemistry Exam Tile – top 3% worldwide (2019)
- 2nd Place, Computer Science and Mathematics, Junior Science and Humanities Symposium (2020)
- 1st Place, Computer Science, Somers Science Research Fair (2019)
- Gold Medal, National Spanish Exam (2018, 2019, 2020)
- Area All-State Violinist (2019)
- National Honor Society | Math Honor Society | Tri-M Music Honor Society

Experience

IBM (January 2020-present)

- Using causal inference (either marginal structural models or g-computation) to determine optimal mechanical ventilation treatment strategies for patients with acute respiratory distress syndrome
- Mentors: Dr. Zachary Shahn, Research Staff Member, and Dr. Ching-Hua Chen, Manager of Computational Health Behavior and Decision Science

CoronaWhy (April 2020-September 2020)

- Helped extract information regarding vaccines and therapeutics from COVID-19 papers

Mount Sinai Medical Center (December 2018-June 2020)

- Evaluated the performance of federated learning, which enables the use of machine learning on decentralized data
- Mentors: Dr. Eric Oermann, Director of AISINAI, and Dr. Anthony Costa, Founder of Sinai BioDesign

Community Service

Yonkers Partners in Education (YPIE)

- Created an SAT tutoring program for YPIE students, staffed by Briarcliff High School students (Early 2020)
- SAT tutor (Fall 2019)
- Summer Scholars Program Intern (2019): assisted in drafting a proposal for a community garden as part of the students' summer assignment to identify and execute a social entrepreneurship project

Briarcliff High School

- Tutored students in Spanish/Chemistry virtually during first wave of COVID-19 (2020)
- Tutored struggling or special needs math students at least twice a month (2018-present)

Extracurriculars

- Pianist (2008-present) – scored 98/100 on level 6 NYSSMA Solo: Chopin Grande Valse Brillante (2019)
- Violinist (2014-present) – scored 97/100 on level 5 NYSSMA Solo: Bach A Minor Concerto (2019)
 - High School Chamber Music Ensemble (2017-present)
 - High School Musical Production Pit Orchestra (2018-present): 50+ hours of rehearsal per musical
- Academic Challenge Club (2017-present): Monthly tournaments, weekly practice
- Varsity Tennis (2019, 2020)
- Avid skier (2008-present)