


# Milan Lustig

Student Researcher

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## Experience

### Stony Brook University COMPAS Lab

May 2024 - Present

Simons Fellow

🌐 <https://compas.cs.stonybrook.edu/>

2024 Stony Brook University Simons Research Fellow working in Professor Mike Ferdman's Computer Architecture At Stony Brook (COMPAS) lab; collaborated with IBM researchers on creation of computer hardware and software to reduce AI energy usage; continuing work on project incorporating graduate students

### University of Michigan Future of Programming Lab

February 2022 - Present

Lab Member

🌐 <http://fplab.mplse.org/>

First high school lab member under Professor Cyrus Omar; developed computer science education software used in multiple university courses; collaborated with graduate students on PhD-thesis projects

### New York University Martiniani Lab

August 2023 - Sep 2024

Lab Member

🌐 <https://martinianilab.org/>

Developed computational physics algorithm; studied graduate-level theoretical physics with Professor Stefano Martiniani; built software for use in multiple physics research labs

### Lemelson-MIT InvenTeam

May 2023 - Present

Team President & Founder

Cold Spring Harbor High School

🌐 <https://lemelson.mit.edu/teams/cold-spring-harbor-juniorsenior-inventeam>

Founded \$7,500 grant-winning InvenTeam dedicated to solving local problem of tick overpopulation; presented at Town of Huntington board meetings and MIT; collaborated with Suffolk County government; won Microsoft Make What's Next Grant (\$50,000)

## Education

### Yale University

2025 - 2029

Electrical Engineering and Computer Science

Bachelor of Science

### Cold Spring Harbor High School

September 2021 - June 2025

🌐 <https://www.csh.k12.ny.us/>

14 AP classes; scored 5 on every AP exam; 1590 SAT; 4.0UW, 4.29W GPA; Co-captain of FRC robotics club; 1st trombone in wind ensemble, symphony orchestra, honor band, jazz band; founder & president of engineering club; captain of men's varsity swimming; Harvard junior book award recipient

## Volunteering

### Cold Spring Harbor High School

2021 - Present

Cold Spring Harbor High School Music Department, Science Research, Robotics Club: organized elementary school outreach events; helped coordinate school music events; performed trombone for charity events

### Foster Their Future

Oct 2024 - Present

Tutor

Cold Spring Harbor, NY

🌐 <https://fostertheirfuture.org/our-new-team/>

Volunteer tutor for local charity Foster Their Future; tutored foster children; helped to improve math, science, ELA skills

### EngIn

Jan 2023 - Aug 2024

Tutor

🌐 <https://www.enginprogram.org/>

Volunteer "Buddy" with EngIn, a Ukrainian charity; tutored Ukrainian student in English weekly

## Awards

### Regeneron STS Top 300 Scholar

Jan 2025

Society for Science

2025 Regeneron Science Talent Search Top 300 Scholar; one of 300 students nationally chosen out of 2400+ applicants (the most in competition history) for solo project "A Configurable Compiled Programming Language With Integrated Transpilation".

### ISEF 3rd Place Grand Award

May 2024

Society for Science

🔗 <https://www.societyforscience.org/press-release/regeneron-isef-2024-full-awards/>

Winner of the 2024 International Science and Engineering Fair 3rd Place Grand Award in the Systems Software category for solo project "A Configurable Compiled Programming Language With Integrated Transpilation"; competed against 1700 international finalists in Los Angeles

### Lemelson-MIT InvenTeams Grant

October 2023

Lemelson-MIT

🔗 <https://lemelson.mit.edu/inventeams>

Founder & president of first ever \$7500 grant-winning Cold Spring Harbor InvenTeam dedicated to solving tick overpopulation on Long Island

### Simons Fellowship

May 2024

Stony Brook University

🔗 <https://www.stonybrook.edu/simons/>

Selected as 2024 Stony Brook University Simons Research Fellow; one of <50 students selected nationally out of 1300+ applicants (<4% acceptance rate)

### National Merit Scholarship Finalist

March 2025

NMSC

🔗 <https://www.nationalmerit.org/s/1758/start.aspx?gid=2&pgid=61>

2025 finalist in the National Merit Scholarship Competition; finalists represent the top 0.5% of students in the United States

### Congressional App Challenge Winner

Jan 2024

United States Congress

🔗 <https://www.congressionalappchallenge.us/>

Winner of 2023/2024 Congressional App Challenge for district NY01; led development of app to solve local water quality issues; built app capable of providing Long Island residents with real time analyses of the water quality in their local harbors and bays

### 2nd Place

March 2025

New York State Science and Engineering Fair

2nd Place Grand Award for project "MLISA: An ISA and End-To-End Compiler for Machine Learning Acceleration" in collaboration with Stony Brook COMPAS Lab

### Ellison Institute of Technology Scholars Semi-Finalist

Oct 2024

Ellison Institute of Technology Oxford

Semi-finalist for EIT Oxford Scholar; one of <100 semi-finalists internationally

## Publications

### A Configurable Compiled Language With Integrated Transpilation

December 2023

SSRN

🔗 <https://dx.doi.org/10.2139/ssrn.4661607>

Solo paper published in pre-print journal SSRN; accepted for publication in peer-reviewed journal; project entailed multiple years of self-teaching and research work to develop a novel type of programming language