

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