

EDUCATION

Massachusetts Institute of Technology (2019–2023)

- Intended major: Computer Science, Economics, and Data Science

Lowell High School (2015–2019)

- Class rank: 2/780
- Leader of Model United Nations, Chess Club, TEDxLowellHigh, FIRST Robotics Team 5962
- AP courses: Statistics (self-study), Computer Science A (self-study), Calculus BC, Physics 1, US History, European History, Latin, English Literature

EXPERIENCE

Harvard University - Physics Research Intern (July–August 2017)

- Performed simulations of quantum dots and quantum wells in complex semiconductor structures
- Experimented to improve etching step of fabrication process for nanoscale lasers

University of Massachusetts Lowell - Bioinformatics Research Intern (June–September 2018)

- Wrote R and bash scripts to analyze and visualize next-generation sequencing data
- Investigated how DNA methylation contributes to the survival and evolution of duplicate genes
- Presented to peers, professors, and executives from Massachusetts Life Sciences Center

Science & Us - Founder and Executive Director (February 2018–present)

- Plan 3 events at MIT and BU for 100+ high school students total to practice science communication
- Develop website and branding; apply for grants and corporate sponsorship; lead team of 7
- Represent S&U at industry conferences
- Recruit workshop leaders and panelists from Harvard, MIT, Tufts, BU, STAT, and freelancers

MAHacks - Lead Organizer (April 2018–present), Organizer (July 2017–present)

- Plan, fundraise for, and market 3 weekend-long events for 100 high schoolers to create tech projects
- Coordinate experience-based prizes such as job shadows, office tours, and conversations with CEOs

SELECT AWARDS

National Center for Women & IT - National Award for Aspirations in Computing (top 0.9%) (2019)

Southern New England Junior Science & Humanities Symposium - 2nd Place (2018)

Massachusetts Society for Medical Research - Science Communication Contest - 1st Place (2018)

ComSciCon National Workshop; Science Media Summit - Invited Guest (only high school student) (2018)

Massachusetts Science & Engineering Fair - 3rd Place (2018), Honorable Mention (2017)

PRESENTATIONS, PUBLICATIONS, PRESS

Science Talk - Portland, OR - “Science & Us: The Next Generation of Communicators” (2019)

Harvard Global Health & Leadership Conference - Cambridge, MA - “From the Lab to the World: Science Communication for High Schoolers” (2017)

Journal of Emerging Investigators - “An aqueous solution containing soluble substances from PVC char has no effect on the rate of transformation in E. coli cells” (2017)

The Lowell Sun - “[HUANG stirs change by making science and humanities work together](#)” (2018)

SKILLS

- Python, R, Javascript, bash, Java, HTML/CSS, LaTeX, git
- Web design, front-end web development, data analysis, computer-aided design
- Copywriting, science and technical writing, public speaking
- Biotechnology techniques: Bacterial transformation, PCR, gel electrophoresis, etc.