

# Huanxuan Li

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## EDUCATION

### Thomas Jefferson High School for Science and Technology

Alexandria, Virginia

*Intended Research Path: Computer/Engineering Systems*

*Advanced Diploma*

- Cumulative GPA: 4.1
- Relevant Courses: AP Statistics, AP Computer Science A + Data Structure, AP Precalculus, AP Physics 1, AP Economics, AV Computer Vision, AV Artificial Intelligence, AV Mobile & Web Application Development

## PROFESSIONAL EXPERIENCE

### Stanford University

Stanford, California

*Research Intern (Polymer-Immunology), Stanford iGEM Team*

*June 2025 - August 2025*

- Authored a 20-page proposal on biodegradable “stealth” PEG coronas for donor hematopoietic stem cells (HSCs) with the Stanford iGEM team, aiming to cut acute graft-versus-host disease and open curative  $\beta$ -thalassemia transplants to >80 % of patients lacking perfect HLA matches.
- Synthesized findings from 60+ peer-reviewed papers across polymer chemistry and immunobiology; mapped a three-phase in-vitro/murine validation pipeline and a \$25 K bill-of-materials budget.

### George Mason University

Fairfax, Virginia

*Research Intern, Sid and Reva Dewberry Department of Civil, Environmental, and Infrastructure Engineering*

*June 2024 - September 2024*

- Developed a unified machine learning pipeline to predict dissolution rates, bio-adhesive strength, and molecular-dynamics indicators from shared chemical features, reducing redundancy in predictive workflows.
- Engineered and validated multi-task learning models using metal, ligand, and environmental datasets, achieving scalable and generalizable chemical behavior predictions.

### Venture Camp

Global

*Marketing Intern*

*March 2024 - June 2024*

- Intern at Venture Camp, a startup incubator backed by venture capital, empowering high school students to build real startups with mentorship from top founders.
- Leading outreach and ambassador efforts across FTC robotics and hackathon communities to boost applications and expand brand presence, and increase traction by roughly 30%

## LEADERSHIP & SERVICE

### FIRST Tech Challenge

Alexandria, Virginia

*Team 14607 Robot Uprising Captain*

*August 2023 - Present*

- Raised \$13,850+ in corporate and community sponsorships, partnerships, and grants, funding drivetrain and vision-processing upgrades for outreach and building materials
- Led strategy and drive team to qualify for the FTC Chesapeake Championship (top 20% of all teams).
- Designed an outreach pipeline that delivered robotics demos to 300+ K-12 students and coached 3 FIRST LEGO League teams to regional events.

### Growing Up With Robotics 501(c)(3)

Alexandria, Virginia

*President*

*August 2023 - Present*

- Delivered free robotics and coding courses to 2650+ students across the globe, committing to both local and international impact through camps, workshops, and individual mentorships.
- Raised \$7,260 in funding, grew from 30 followers to 20,000 followers across various social medias

### Area Youth Ministry (501c3)

Fairfax, Virginia

*Summer Camp Director & Volunteer*

*August 2023 - Present*

- Directed a 5-day STEM summer camp for elementary and middle school students, delivering hands-on robotics/coding workshops, and recorded over 120 students.
- Recruited, trained, and led 13 volunteers to run instruction, safety, and daily operations.
- Managed end-to-end logistics—curriculum design, scheduling, supplies, parent communication—and authored all lecture materials.

## HONORS, SKILLS, & ADDITIONAL ACTIVITIES

**Honors:** FTC Chesapeake Championship Inspire II award and Motivate Award, President’s Volunteer Service Award, Conrad Innovator, ABRSM Merit Grade 8 Piano Practical, ABRSM Merit Grade 5 Music Theory.

**Skills:** Python, Java, C++, C#, C, R, HTML, CSS, JavaScript, Machine Learning, Data Collection.

**Activities:** International Biology Bowl Outreach Member, LaunchX Director, Investment Club Research Team, Varsity Policy Debate, Varsity Lacrosse, Painter, Climber, Internationally Ranked Rubik’s Cube Solver (Top 300)