

# Xinyue Wang

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## EDUCATION

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### Stanford University Online High School

*High School Junior*

Cumulative GPA: 3.95/4.00

August 2023 – Present

*Stanford, CA*

## EXPERIENCE

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### Research Intern

*Stanford University School of Medicine, Bernstein Lab*

May 2025 – Present

*Stanford, CA*

- Investigate pediatric hypertrophic cardiomyopathy with patient tissue and iPSC-derived cardiomyocytes
- Analyze results and co-author manuscripts to inform future therapies
- Analyze results and contribute to manuscript development for clinical research

### Sociology Student Researcher

*Independent Studies*

April 2024 – Present

*Remote*

- Study immigration trends, gender roles, and media influence on social outcomes
- Draft literature review on LGBTQ immigration to the U.S.—policies, lived experience, and barriers
- Analyze how identity, policy, and culture intersect for marginalized communities

### Mathematics Teaching Assistant

*Stanford University Online High School*

June 2024 – Present

*Remote*

- Hold regular office hours to assist students with Single Variable Calculus coursework and concepts
- Collaborate with mentor instructors and Director to plan lessons, activities, and review sessions
- Assist in curating assignments and improving curriculum based on student feedback and performance

### Chemistry Research Assistant

*Stanford University*

November 2023 – Present

*Stanford, CA*

- Working under Dr. Nick DeMello to develop interactive virtual chemistry lab experiences
- Creating digital manuals and simulations for organic chemistry experiments
- Engaged in research on quantum computational chemistry, focusing on innovative approaches to chemical analysis

### International Student Alliance Leader

*Stanford University Online High School*

Aug 2023 – Present

*Remote*

- Assisted international students and new immigrants in adapting to life in the U.S.
- Organized orientation sessions and provided support to help students navigate academic and social challenges
- Collaborated with Student Life to create resources that address the specific needs of international students

## PROJECTS

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### Stellar Discovery Project | *Python, AstroImageJ, FITS, WDS*

September 2024 – Present

- Developing research guides on double star systems, exoplanets, and star clusters for student researchers
- Creating tutorials and data analysis tools to process astronomical datasets
- Connecting high school students with astronomy research opportunities and mentorship

### ChemisFun — Founder

July 2023 – Present

- Developed an adaptive learning website with virtual organic chemistry lab simulations for high school students
- Enabled hands-on experimentation in a safe, gamified digital environment to improve chemistry understanding
- Integrated quizzes and progress tracking to tailor learning paths based on user performance

### Stanford OHS Guide | *Python, HTML/CSS, SPSS*

August 2023 – Present

- Provided guidance to students on course selection, community resources, and academic tools
- Developed web content and resources to support student engagement and success
- Utilized WordPress for web development and content management for the guide

### Goal Get It! | *Online Community*

September 2024 – Present

- Founded and manage online platform supporting homeschool students facing social and academic challenges
- Share experiences and resources to build community and ensure users feel supported
- Provide assistance through active communication channels, ensuring access to help and guidance

TECHNICAL SKILLS

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**Programming Languages:** Python, HTML/CSS, JavaScript, SQL, R  
**Tools:** VS Code, Microsoft Azure Platform, SPSS, MS Office  
**Technologies/Frameworks:** Linux, GitHub, WordPress  
**Libraries:** pandas, NumPy, Matplotlib

HONORS & AWARDS

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<b>United States Physics Olympiad:</b> Gold Medalist <i>American Association of Physics Teachers</i>	April 2025
<b>PhysicsBowl:</b> Global Top 4 (Division 1), Top Scorer at Stanford Online High School <i>American Association of Physics Teachers</i>	March 2025
<b>American Invitational Mathematics Examination:</b> Top 2.5% <i>Mathematical Association of America</i>	February 2025
<b>American Mathematics Contest 12:</b> Honor Roll of Distinction (Top 1%) <i>Mathematical Association of America</i>	November 2024
<b>United States Biology Olympiad (Open Exam):</b> Top 20 Nationally <i>Center for Excellence in Education</i>	March 2024

STANDARDIZED TESTS

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<b>SAT:</b> 1580 / 1600	Oct. 2023
<b>TOEFL:</b> 119 / 120	Aug. 2022