

Xinyue Wang

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EDUCATION

Stanford University Online High School

High School Junior

Cumulative GPA: 3.95/4.00

August 2023 – Present

Stanford, CA

EXPERIENCE

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

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

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

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

STANDARDIZED TESTS

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