

RYAN TANG

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

B.S. Electrical Engineering with Computing

Class of 2029

Westwood High School

Austin, TX

High School Diploma (Rank 31/700)

Class of 2025

- GPA: 5.83 weighted / 3.98 unweighted
- Clubs: National Science Honor Society, Chemistry Olympiad Club
- Relevant Courses: Multivariable Calculus, Differential Equations, Linear Algebra, AP Sciences (Chemistry, Biology, Physics C – Mechanics and E&M, Physics 1), AP Calculus BC, AP Economics, AP Literature, and more

PROFESSIONAL EXPERIENCE

Oden Institute, UT Austin

Austin, TX

Researcher

2023 – 2025

- Developing machine learning forcefields and GPU-accelerated adaptive kinetic Monte Carlo simulations under the Graeme research group.

SSP Biochemistry, Purdue University

West Lafayette, IN

Researcher

Summer 2024

- Designed fungal pathogen inhibitors using both wet-lab and computational techniques.
- Performed protein expression, purification with ATKA Start, and analysis using MOE (Molecular Operating Environment).

Independent Research

Austin, TX

Researcher: IR Spectra CNNs

2022 – 2023

- Applied convolutional neural networks to predict functional group presence in IR spectra.

ACES Educational Center

Austin, TX

Lecturer: Introduction to Robotics

2020 – 2024

- Created and delivered a 3-week course on robotics, covering mechanical design, materials science, and control systems.

VOLUNTEER WORK

Austin Physics Academy

Remote

Volunteer Lecturer

Summer 2024

- Developed and taught a free 3-week AP Physics 1 course to underclassmen and middle schoolers.

ChemHub

Remote

Volunteer Developer

2024 – Present

- Lead developer for algorithmic classification backend of global chemistry competition problem database.

Exosky!

Remote

Volunteer Developer

2024 – Present

- Built backend scientific computation and visualization engine for rendering night skies of exoplanets.

Austin Ridge Riders

Austin, TX

Volunteer Trail Builder

2024 – Present

- Maintained and built mountain biking trails through community cleanup efforts.

AWARDS AND HONORS

- 2x Finalist / Honors | US National Chemistry Olympiad (Top 150 nationally)
- Gold Medal | British Biology Olympiad (Top 5% Internationally)
- Semifinalist | USA Biology Olympiad (Top 225 nationally)
- Open Exam Qualifier | USA Biology Olympiad (Top 50 nationally)
- 2x Shortlisted | CERN Beamline for Schools (Top 50 internationally)
- USAPhO Qualifier | USA Physics Olympiad (Top 500 nationally)
- Silver Award | Presidential Volunteer Service (250+ hours)