

Jean Zhang

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Education

Yale University

New Haven, CT · Expected Grad: May 2029

Freshman. Intending to major in Physics.

Relavant Coursework: Classical Mechanics, Relativity, Quantum Information Processing, Linear Algebra, Introduction to Computer Science, Introduction to Computer Engineering

Skills

Technical Skills:

Programming (Python, Java), Web Development (HTML, CSS), Astronomy Image Processing (PixInsight, AstroImageJ, SAOImageDS9), Telescope operation (both personal & observatory telescopes)

Other skills:

Music (Musicals, A capella, Piano, Scottish flute), Composition (Musescore, Garageband), Writing & Editing (scientific, business, creative), Tutoring

Languages:

Chinese (native) & English (fluent) & French (beginner)

Work Experience

Echo Literary Magazine: Editor in Chief

Sept 2024 – Jun 2025

Led editing, advertising, and alumni outreach, launching new web and store initiatives that drove 400 sales and ¥9,400+ in donations.

STEM Tutoring

July 2023 – Present

Spearheaded 10+ DIY experiments workshops; taught astrophotography; designed and tutored “Re-inventing Physics” course for elementary school students at a community summer program; online math tutoring.

Research

Summer Science Program

GCSU, Milledgeville, GA · Jun 2024 – Jul 2024

Researched asteroid orbits & Saturn’s influence on orbital periodicity; published on Minor Planet Circulars.

Pioneer Research Program – Relativity & Cosmology

Online · Feb 2024 – Jul 2024

Researched the feasibility of black hole energy extraction through the Penrose Process to address the energy crisis.

Astronomy Research @ SJTU

Shanghai, China · Oct 2023 – Present

Simulated gravitational lensing and calculated cosmic shears.

Stanford Summer Humanities Institute

Palo Alto, CA · Jul 2023 – Jul 2023

Researched how Marquez grants Macondo chance to combat solitude through creating a common identity.

Additional Awards

- HiMCM, Finalist (2024)
- John Locke Competition Theology Shortlist (2023)
- Invention Convention China Shanghai, Gold (2023)
- Gold in Musica Sacra & Folklore A cappella (2019 European Choir Games)