

# Shujia (Jean) Zhang

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## EDUCATION

### **Shanghai Starriver Bilingual School, Shanghai, China**

**Sept 2013 – Jun 2025**

- GPA: 4.814, ACT: 36, TOEFL: 117
- Scored a 5 on the following AP exams: Physics 1, Physics C: Mechanics, Physics 2, Physics C: Electricity & Magnetism, Calculus BC, Computer Science A, English Literature & Composition, English Language & Composition, World History, European History, U.S. History, U.S. Government & Politics, Seminar, Macroeconomics, Microeconomics

### **Summer Science Program @ GCSU, Milledgeville, GA**

**Jun 2024 – Jul 2024**

- Researched asteroid orbital determination; published on Minor Planet Circulars; presented findings on Saturn's influence on orbital periodicity

### **Pioneer Research Program - Relativity and Cosmology, Online**

**Feb 2024 – Jul 2024**

- Researched the feasibility of black hole energy extraction through the Penrose Process to address the energy crisis; received letter grade A

### **Astronomy Research @ SJTU, Shanghai, China**

**Oct 2023 – Present**

- Investigated the simulation of gravitational lensing and calculation of cosmic shears

### **Stanford Summer Humanities Institute, Palo Alto, CA**

**Jul 2023 – Jul 2023**

- Culminated in an essay on how Marquez grants Macondo, and by extension Latin America, a chance to combat solitude through creating a common identity

### **Pioneer Research Program - Genders, Sexualities, and Race, Online**

**Feb 2023 – Jul 2023**

- Examined characterization and romance in Danmei, a popular type of Chinese bromance fiction; received letter grade A

## HONORS & AWARDS

- Dartmouth Book Award (2024)
- High School Mathematical Contest in Modeling, Finalist (2024)
- Invention Convention China Shanghai, Gold (2023)
- John Locke Competition Theology Shortlist (2023)

## EXTRA-CURRICULUM

### **Founder, Invention Garage**

**July 2023 – Present**

- Spearheaded 10+ DIY experiments workshops; taught astrophotography; designed and tutored "Re-inventing Physics" course intended for elementary school students at governmental summer program

### **Editor-in-chief, Echo Magazine**

**Sept 2023 - Present**

- Produced the sixth issue with 20+ essays; launched first alumni call for submissions; built site for free access to archived issues.

### **Co-founder, The Geist Podcast**

**Sept 2023 - Present**

- Provided platform for conversations outside the classroom; produced 10+ episodes on WeChat Official account; inspired the school's Talk with Teachers Podcast.

### **Section Leader, Shanghai Youth Choir**

**Sept 2018 - Present**

- Led section practices; won Gold in Musica Sacra & Folklore a cappella (2019 European Choir Games); joined 20+ performances with 200+ audience each.