

# Yujean Shin

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## EDUCATION

### Harvard College

Cambridge, MA

*A.B. in Mathematics (intended)*

*Sep 2023 – May 2027 (expected)*

- GPA: 3.91/4.00; Relevant Coursework: Theoretical Linear Algebra; Vector Calculus; Introduction to Computer Science; Introduction to Theoretical Computer Science; Introduction to Probability
- Fall 2024 Course Assistant for proof-based linear algebra; support students with office hours, grade students' work

### Bremen High School

Bremen, GA

- Valedictorian | 4.29/4.00 GPA | 1600 SAT (800 M / 800 CR) *Aug 2019 – May 2023*
- Governor's Honors in Mathematics, National Merit Scholarship Finalist, National AP Scholar with Distinction

## RELATED ACTIVITIES

### Citadel Securities Ignite Women's Trading Program

*(incoming) January 2025*

- 1-week immersive program for sophomore women exploring a career in quantitative finance and financial markets
- Learning about market making, equities, bonds, and financial derivatives, and engage in mock trading simulations

### Jane Street Academy of Math and Programming (AMP)

*Mathematics Teaching Assistant*

*July 2024*

- Taught combinatorics class, provided feedback on problem sets, and helped students during office hours
- Organized social events for students and staff, and taught Figgie and mathematical board games outside of class

*Student*

*July 2023*

- One of ~70 students selected nationwide for a fully funded 5-week summer program with rigorous curriculum
- Learned college-level number theory, combinatorics, statistics, computer programming (Python), and game theory
- Completed 5 Python projects, including a Wordle solver with 97% accuracy requiring an average of 3.96 guesses

### Tech for Social Good (T4SG) | Software Engineering Team (SWE)

*Sep 2023 – Present*

- Partner with nonprofits, government agencies, and social impact organizations to amplify their impact with tech
- [Fall 2024, SWE]: Working with AmpleHarvest, a nonprofit helping distribute fresh produce to food pantries; will develop an LLM-powered web scraper parsing and verifying information from 4,000+ food pantries' websites
- [Spring 2024, SWE]: Worked with SIRUM—a national nonprofit organization—to make medicine more accessible; developed a Python web-scraping data pipeline that collects information about drug demand, cost, and accessibility
- [Fall 2023, Exploration member]: Designed and programmed a homework partner finder for Harvard students; conducted 6 student interviews to identify pain points and create 3 iterative app designs in Figma based on feedback

### The Summer Science Program (SSP) | Astrophysics Research

*June – July 2022*

- Selected as an astrophysics researcher at New Mexico Tech with a 9% acceptance rate
- Captured images of near-Earth asteroid 2015 HH10 using a Celestron C-14 telescope and published 6 original observations to the Smithsonian Minor Planet Center database
- Determined the asteroid's apparent magnitude and orbital elements with 98% accuracy by implementing Python scripts using astrometry, photometry, Monte Carlo simulations, and the Method of Gauss

## LEADERSHIP & SKILLS

### Mock Trial

*Aug 2019 – May 2023*

*Lead Attorney & Team Captain*

- Presented 8-minute pre-trial and 5-minute closing arguments in front of practicing judges and attorneys
- Increased membership by 40% over 4 years by recruiting students interested in law and public speaking
- Received Outstanding Attorney Award at Empire Mock Trial International Competition out of 150+ attorneys

### MATHCOUNTS Competition Teaching Assistant

*Aug 2019 – Mar 2021*

*Middle School Math Tutor*

- Prepared lessons and presented competition math techniques to middle school students
- Graded students' practice tests and provided feedback on specific problem-solving methods

**Skills:** Python, Java, Javascript/Typescript and React.js, HTML/CSS, C/C++, SQL, Git, Figma, LaTeX

**Interests:** Harvard Korean Association, Student Astronomers at Harvard-Radcliffe (STHR), Soccer, Stenotype