

# Siyuan (James) Guo

Email: [sguo45@jhu.edu](mailto:sguo45@jhu.edu)

Personal Webpage: <https://james-guo-03.github.io>

Updated February 2025

## Summary

Student familiar with academic materials, passionate with learning, and interested in researching topics intersecting mathematics and computer science. Motivated in guiding students comprehend materials through their education.

## Education

JOHNS HOPKINS UNIVERSITY: Baltimore, MD

August 2022 – present

- Major: *Mathematics and Computer Science*
- Expected Graduation Time: *May 2026*
- Related Courses<sup>1</sup>:
  - Mathematics: Real and Complex Analysis, Abstract Algebra, ODEs and PDEs, Functional Analysis, Numerical Linear Algebra, Harmonic Analysis (\*), and SDEs (\*).
  - Computer Science: C Language Programming, Data Structures, Computer System Fundamentals, Machine Learning, Deep Learning (\*), and Algorithms (\*).

CHESHIRE ACADEMY: Cheshire, CT

September 2018 – June 2022

- Selected as the Valedictorian and gave a public speech during Commencement
- Awarded *Advanced Placement Scholar with Distinction* and *International Baccalaureate Diploma*

## Employment

JOHNS HOPKINS UNIVERSITY: Baltimore, MD

- Teaching Assistant for AS.250.205 Introduction to Computing January 2023 – present
  - Grading and annotating assignments and exams with professor and other teaching assistants
  - Maintaining active discussions environment in class with students about coding problems
  - Empowering students to utilize computing skills to solve problems and create innovative codes
- PILOT (Peer-led-team Learning) Leader for AS.110.302 Differential Equations and Applications

August 2023 – present

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<sup>1</sup>(\*) indicates the current enrollment.

- Head PILOT Leader: making problem sets and solution sets aligning the progress of the course
- Leading a team of 6 to 12 students in reviewing class contents and working on exercise problems, and organizing review sessions
- Doing recitation style sections to learn the materials and review for class contents
- Initiated and compiled the PILOT website for all the materials throughout the semesters

## Selected Activities<sup>2</sup>

### JOHNS HOPKINS MATH TOURNAMENT (JHMT)

September 2024 – present

- Proposing and reviewing contest problems for regional high school and middle school students
- Helping organize the in person contest during the competition day
- Preparing talk among topic of mathematics to the students as enrichment

### INTERNATIONAL STUDENT AT HOPKINS (ISAH) ORGANIZATION

October 2022 – May 2024

- Collectively holding community events, such as movie night and tea party, aiming to build an inclusive environment to connect different cultures and groups of Hopkins students
- Volunteered at the Baltimore Lunar Night event as the ticket stand and help desk to public audiences
- Planned and organized events such as Thanksgiving care packages, tea parties, and formals for international students

### MARYLAND SCIENCE OLYMPIAD

October 2022 – April 2024

- Raising questions and experiments to innovate middle and high school students on the physics and engineering related topics
- Volunteering at the state competition with proctoring and monitoring the teams while measuring the results
- Supervising Sound of Music B, Bridges C, and Optics B&C competitions
- Empowering students with STEM ideas by planning state-level tournaments

## Skills

- Document Writing:  
L<sup>A</sup>T<sub>E</sub>X, Microsoft Office, and Apple iWork
- Computing Programing:  
JAVA, Python, C, C++, assembly, swift, and (Linux) bash
- Media Creation and Handling:  
Adobe Photoshop and iMovie
- Languages:  
English (fluent), Mandarin Chinese (fluent), and Spanish (elementary)

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<sup>2</sup>More activities and archives can be found from my [CV](#) page.