

## Tristan Chaang

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### Education

<b>Massachusetts Institute of Technology</b> , Cambridge, MA	September 2027
• Candidate for BS in Mathematics & Computer Science and Engineering & a Minor in Physics	GPA: 5.0/5.0
• Relevant Coursework: Algorithms, Machine Learning, Electronics, Analysis, Abstract Algebra, Quantum Physics, Macroeconomics, Linguistics	(Sophomore)

### Experience

<b>Teaching Assistant (TA)</b> , EECS Department, MIT <i>UTA for 6.1210 (Introduction to Algorithms)</i>	Fall 2024 (Upcoming)
• Hold weekly office hours and recitations for the class	
• Proctor and grade the final exam	
<b>UROP</b> , Department of Earth, Atmospheric, and Planetary Sciences, MIT <i>GPS/GNSS Jupyter Notebook Interface for Time Series Analysis</i>	Spring and Summer 2024
• Develop a Jupyter Notebook that allows users to utilize time position series data	
• Outline patterns and correlations from time series data to understand changes of Earth's surface	
<b>Teaching Assistant (TA)</b> , Department of Physics, MIT <i>UTA for 8.011 (Physics I / Classical Mechanics)</i>	Spring 2024
• Help students during group activities and grade problem sets on a weekly basis	
<b>Undergraduate Research Opportunities Program (UROP)</b> , Department of Mathematics, MIT <i>Investigating the Motion of Pilot-Wave Walkers in a Circular Corral</i>	Winter 2024
• Study the behavior of droplets bouncing on a vibrating oil bath via MATLAB	
<b>Youth Stem Cup 2023</b> , Malaysia <i>Head of Problem Selection Committee (PSC)</i>	Summer 2023
• Organize the first ever student-led national science Olympiad in Malaysia	
• Lead the PSC to: Invite problem setters, produce the exam paper, cross-check validity etc.	
<b>IMO Committee Malaysia</b> , Malaysia <i>Trainer and Problem Selection Committee Member</i>	2021-2023
• Train students in the IMO Selection Camp of Malaysia	
• Write handouts and set problems for camp tests and IMO shortlist proposals	

### Activities & Extracurriculars

<b>2024 Discover Citadel and Citadel Securities</b> , New York	Spring 2024
• Explore and learn about different roles at Citadel through various activities and networking events.	
<b>Swimming Club</b> , Sunway College, Malaysia	2021-2023
• Help the committee run pool activities and teach beginners breaststroke and freestyle	
<b>Science Week Opening Ceremony</b> , Kuen Cheng High School, Malaysia	2019
• Plan and execute a large-scale elephant toothpaste performance for the annual science week	

### Awards & Accomplishments

<b>William Lowell Putnam Mathematical Competition</b> by MAA	Fall 2023
• Honorable Mention (Top 100)	
<b>International Mathematical Olympiad</b>	2018-2022
• Bronze Medals (2020, 2022) and Honorable Mentions (2018, 2019, 2021)	
<b>Malaysian Physics, Computational Linguistics, and Economics Olympiads</b>	2020-2022
• Silver and Bronze Medals	

### Skills & Interests

<b>Languages:</b>	Fluency in English, Mandarin Chinese, Cantonese and Malay
<b>Software:</b>	Familiarity with Python, C++, LaTeX, JavaScript, MATLAB, Mathematica, Adobe (Ps, Pr, Ae, Ai)
<b>Authored:</b>	"Techniques for High School Mathematics Contests" (on Google Books)

**Interests:** Abstract Algebra, Topology, Quantum Physics, AI, Programming, Linguistics