

**Tristan Chaang**  
Cambridge, MA | +1 (617) 642 1190 | [tchaang@mit.edu](mailto:tchaang@mit.edu)  
<https://tristanchaang.github.io>  
<https://www.linkedin.com/in/tchaang>

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## Education

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<b>Massachusetts Institute of Technology</b> , Cambridge, MA	September 2027
<ul style="list-style-type: none"><li>• Candidate for Bachelor of Science in Computer Science and Engineering</li><li>• Candidate for Bachelor of Science in Mathematics</li><li>• Candidate for a minor in Physics</li><li>• Relevant Coursework: Algorithms, Machine Learning, Electronics, Analysis, Abstract Algebra, Quantum Physics, Macroeconomics, Linguistics</li></ul>	GPA: 5.0/5.0 (Sophomore)
<b>Sunway College</b> , Kuala Lumpur, Malaysia	December 2022
<ul style="list-style-type: none"><li>• Valedictorian, “Top in the World” and “Best Across Four Subjects” Award</li><li>• Cambridge GCE A-Levels: 4 A* SAT: 1550 IELTS: 8</li><li>• Coursework: Mathematics, Further Mathematics, Physics, Economics</li></ul>	

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## Experience

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<b>Teaching Assistant (TA)</b> , EECS Department, MIT <i>UTA for 6.1210 (Introduction to Algorithms)</i>	Fall 2024 (Upcoming)
<ul style="list-style-type: none"><li>• Hold weekly office hours and recitations for the class</li><li>• Proctor and grade the final exam</li></ul>	
<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
<ul style="list-style-type: none"><li>• Develop a Jupyter Notebook that allows users to utilize time position series data</li><li>• Integrate data from various GPS organizations into a user-friendly interface for easier access</li><li>• Outline patterns and correlations from time series data to understand changes of Earth’s surface</li></ul>	
<b>Teaching Assistant (TA)</b> , Department of Physics, MIT <i>UTA for 8.011 (Physics I / Classical Mechanics)</i>	Spring 2024
<ul style="list-style-type: none"><li>• Help students during group activities</li><li>• Grade problem sets on a weekly basis</li></ul>	
<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
<ul style="list-style-type: none"><li>• Study the behavior of droplets bouncing on a vibrating oil bath</li><li>• Demonstrate the consistency of pilot-wave dynamics with quantum mechanics</li><li>• Use MATLAB to model droplet dynamics and compare with experimental results</li></ul>	
<b>Youth Stem Cup 2023</b> , Malaysia <i>Head of Problem Selection Committee (PSC)</i>	Summer 2023
<ul style="list-style-type: none"><li>• Organize the first ever student-led national science Olympiad in Malaysia</li><li>• Lead the PSC to: Invite problem setters, produce the exam paper, cross-check validity etc.</li><li>• Successfully run the physical event with ~ 1200 participants from all over the country</li></ul>	
<b>IMO Committee Malaysia</b> , Malaysia <i>Trainer and Problem Selection Committee Member</i>	2021-2023
<ul style="list-style-type: none"><li>• Train students in the IMO Selection Camp of Malaysia</li><li>• Write handouts and set problems for camp tests and IMO shortlist proposals</li></ul>	
<b>Academic Department, Kuen Cheng High School</b> , Malaysia	2018-2023

*Math Team Trainer, Math Presenter, Peer Learning Program Volunteer*

- Trained and led the school team to win national first places in multiple large-scale contests
- Give talks and interactive presentations to foster mathematical interest
- Help students in academic need in math, physics and chemistry to fulfil graduation requirement

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### Activities & Extracurriculars

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**2024 Discover Citadel and Citadel Securities**, New York Spring 2024

- Explore and learn about different roles at Citadel through various activities and networking events.

**Swimming Club, Sunway College**, Malaysia 2021-2023

- Help the committee run pool activities and teach beginners breaststroke and freestyle

**Science Week Opening Ceremony**, Kuen Cheng High School, Malaysia 2019

- Plan and execute a large-scale performance for the annual science week
- Successfully performed a huge elephant toothpaste demonstration

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### Awards & Accomplishments

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**William Lowell Putnam Mathematical Competition** by MAA 2023-2024

- Honorable Mention (Top 100)

**International Mathematical Olympiad** 2018-2022

- Bronze Medals (2020, 2022) and Honorable Mentions (2018, 2019, 2021)

**Malaysian Physics, Computational Linguistics, and Economics Olympiads** 2020-2022

- Silver and Bronze Medals

**Chen Jing-Run Cup Math Contest** by Xiamen University Malaysia 2017-2020

- National Champion for 4 consecutive years

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### Skills & Interests

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**Languages:** Fluency in English, Mandarin Chinese, Cantonese and Malay

**Software:** Familiarity with Python, C++, LaTeX, MATLAB, Mathematica, Adobe (Ps, Pr, Ae, Ai)

**Authored:** “Techniques for High School Mathematics Contests” (on Google Books)

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