Tristan Chaang

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Education	
 Massachusetts Institute of Technology, Cambridge, MA Candidate for Bachelor of Science in Electrical Engineering and Computer Science Candidate for Bachelor of Science in Mathematics Candidate for a minor in Physics Relevant Coursework: Algorithms, Machine Learning, Electronics, Analysis, Abstract Algebra, Quantum Physics, Linguistics 	September 2027 GPA (N/A) (Freshman)
 Sunway College, Kuala Lumpur, Malaysia Valedictorian, "Top in the World" and "Best Across Four Subjects" Award Cambridge GCE A-Levels: 4 A* SAT: 1550 IELTS: 8 Coursework: Mathematics, Further Mathematics, Physics, Economics 	December 2022
Experience	
 UROP, Department of Earth, Atmospheric, and Planetary Sciences, MIT GPS/GNSS Jupyter Notebook Interface for Time Series Analysis Develop a Jupyter Notebook that allows users to utilize time position series data Integrate data from various GPS organizations into a user-friendly interface for easier access Outline patterns and correlations from time series data to understand changes of Earth's surface 	Spring 2024
 Undergraduate Teaching Assistant (UTA), Department of Physics, MIT UTA for 8.011 (Physics I / Classical Mechanics) Help students during group activities Grade problem sets on a weekly basis 	Spring 2024
 Undergraduate Research Opportunities Program (UROP), Department of Mathematics, MIT Investigating the Motion of Pilot-Wave Walkers in a Circular Corral Study the behavior of droplets bouncing on a vibrating oil bath Demonstrate the consistency of pilot-wave dynamics with quantum mechanics Use MATLAB to model droplet dynamics and compare with experimental results 	Winter 2024
 Youth Stem Cup 2023, Malaysia Head of Problem Selection Committee (PSC) 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. Successfully run the physical event with ~ 1200 participants from all over the country 	Summer 2023
 IMO Committee Malaysia, Malaysia Trainer and Problem Selection Committee Member Train students in the IMO Selection Camp of Malaysia Write handouts and set problems for camp tests and IMO shortlist proposals 	2021-2023
Academic Department, Kuen Cheng High School, Malaysia 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 Cive tells and interesting presentations to feature methods interest.	2018-2023

Give talks and interactive presentations to foster mathematical interest

Help students in academic need in math, physics and chemistry to fulfil graduation requirement

Activities & Extracurriculars	
 Swimming Club, Sunway College, Malaysia Help the committee run pool activities and teach beginners breaststroke and freestyle 	2021-2023
 Science Week Opening Ceremony, Kuen Cheng High School, Malaysia Plan and execute a large-scale performance for the annual science week Successfully performed a huge elephant toothpaste demonstration 	2019
Awards & Accomplishments	
William Lowell Putnam Mathematical Competition by MAA ■ Honorable Mention (Top 100)	2023-2024
 International Mathematical Olympiad Bronze Medals (2020, 2022) and Honorable Mentions (2018, 2019, 2021) 	2018-2022
 Malaysian Physics, Computational Linguistics, and Economics Olympiads Silver and Bronze Medals 	2020-2022
 Chen Jing-Run Cup Math Contest by Xiamen University Malaysia National Champion for 4 consecutive years 	2017-2020
Skills & Interests	

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

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

Books: "Techniques for High School Mathematics Contests" (on Google Books)

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