

Tristan Chaang

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Education

Massachusetts Institute of Technology , Cambridge, MA	September 2027
<ul style="list-style-type: none">• Candidate for BS in Electrical Engineering and Computer Science & Mathematics• Candidate for a minor in Physics• Relevant Coursework: Algorithms, Machine Learning, Electronics, Analysis, Abstract Algebra, Quantum Physics, Linguistics	GPA (N/A) (Freshman)

Experience

UROP , Department of Earth, Atmospheric, and Planetary Sciences, MIT <i>GPS/GNSS Jupyter Notebook Interface for Time Series Analysis</i> <ul style="list-style-type: none">• 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	Spring 2024
Undergraduate Teaching Assistant (UTA) , Department of Physics, MIT <i>UTA for 8.011 (Physics I / Classical Mechanics)</i> <ul style="list-style-type: none">• Help students during group activities and grade problem sets on a weekly basis	Spring 2024
Undergraduate Research Opportunities Program (UROP) , Department of Mathematics, MIT <i>Investigating the Motion of Pilot-Wave Walkers in a Circular Corral</i> <ul style="list-style-type: none">• Study the behavior of droplets bouncing on a vibrating oil bath• Use MATLAB to model droplet dynamics and compare with experimental results	Winter 2024
Youth Stem Cup 2023 , Malaysia <i>Head of Problem Selection Committee (PSC)</i> <ul style="list-style-type: none">• 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.	Summer 2023
IMO Committee Malaysia , Malaysia <i>Trainer and Problem Selection Committee Member</i> <ul style="list-style-type: none">• 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 <i>Math Team Trainer, Math Presenter, Peer Learning Program Volunteer</i> <ul style="list-style-type: none">• 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	2018-2023

Activities & Extracurriculars

Swimming Club, Sunway College , Malaysia <ul style="list-style-type: none">• Help the committee run pool activities and teach beginners breaststroke and freestyle	2021-2023
Science Week Opening Ceremony , Kuen Cheng High School, Malaysia <ul style="list-style-type: none">• Plan and execute a large-scale performance for the annual science week	2019

Awards & Accomplishments

William Lowell Putnam Mathematical Competition by MAA <ul style="list-style-type: none">• Honorable Mention (Top 100)	Fall 2023
International Mathematical Olympiad <ul style="list-style-type: none">• Bronze Medals (2020, 2022) and Honorable Mentions (2018, 2019, 2021)	2018-2022
Malaysian Physics, Computational Linguistics, and Economics Olympiads <ul style="list-style-type: none">• Silver and Bronze Medals	2020-2022

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