Tristan Chaang
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Education

Massachusetts Institute of Technology, 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

Teaching Assistant (TA), EECS Department, MIT — Fall 2024
UTA for 6.1210 (Algorithms)
- Hold weekly office hours and recitations for the class
- Proctor and grade the final exam

UROP, Department of Earth, Atmospheric, and Planetary Sciences, MIT — Spring and Summer 2024
GPS/GNSS Jupyter Notebook Interface for Time Series Analysis
- 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

Teaching Assistant (TA), Department of Physics, MIT — Spring 2024
UTA for 8.011 (Physics I / Classical Mechanics)
- Help students during group activities and grade problem sets on a weekly basis

Undergraduate Research Opportunities Program (UROP), Department of Mathematics, MIT — Winter 2024
Investigating the Motion of Pilot-Wave Walkers in a Circular Corral
- Study the behavior of droplets bouncing on a vibrating oil bath via MATLAB

Youth Stem Cup 2023, Malaysia — Summer 2023
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.

IMO Committee Malaysia, Malaysia — 2021-2023
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

Activities & Extracurriculars

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 elephant toothpaste performance for the annual science week

Awards & Accomplishments

William Lowell Putnam Mathematical Competition by MAA — Fall 2023
- 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

Skills & Interests

Languages: Fluency in English, Mandarin Chinese, Cantonese and Malay
Software: Familiarity with Python, C++, C, JavaScript, 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