

Tristan Chaang



Junior at **Massachusetts Institute of Technology (MIT)**
Major in Math, CS & Engineering, & Minor in Physics

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Coursework and Grades

GPA: 5.0 / 5.0
Graduating: June 2027
Highlights: Stochastic Processes,
Algorithm Design, ML,
Natural Lang Processing,
Quantum Computation

Skills and Interests

Interests: Algorithmic Trading, Data Analysis, Financial Math,
Collaborative Learning, Problem-Solving
Software: Python, C, JavaScript, MATLAB, LaTeX
Languages: English, Mandarin, Cantonese, Malay, French, Japanese
Published: “Techniques for High School Mathematics Contests”

Awards and Accomplishments

Citadel Securities 2nd Annual Quant Research Invitational – Champion (\$10000 Award) Winter 2025

- Implemented stochastic methods for algorithmic trading
- Simulated a Monte Carlo process and performed portfolio-optimized pairs-trading
- Presented final strategy at the new Citadel Securities headquarters in Miami

William Lowell Putnam Mathematical Competition – Honorable Mention (Top 100) 2023-2024

- One of the most prestigious university-level math competitions in the world

International Mathematical Olympiad (IMO) – Bronze Medals 2018-2022

- Five-time participant and medalist, representing Malaysia as one of only six team members

Work and Leadership Experience

Quantitative Research Intern at Citadel Securities, Miami Headquarters Summer 2025

- Systematic FICC (Fixed income, Currencies and Commodities) Team
- Ongoing internship on monetization

Teaching Assistant (TA) and Grader 2024-

- For Algorithms, Classical Mechanics, Real Analysis and Linear Algebra
- Hold weekly office hours and recitations, proctor and grade exams

Undergraduate Researcher at MIT CS & AI Lab (CSAIL) 2024-2025

- Design and test self-supervised ML models to process 1PB of uncured 3D brain scans

Global Teaching Laboratory, MIT International Sci and Tech Initiative (MISTI) Winter 2025

- Trained the *Côte d'Ivoire* national team (in French) for the International Math Olympiad (IMO)

Webmaster and Actor, MIT Life on Stage Theatre (LOST) 2024-

- Perform for theatre and manage the club website <https://lost.mit.edu/>

Undergraduate Researcher at Department of Earth, Atmospheric and Planetary Sciences MIT Summer 2024

- Developed Jupyter Notebook to analyze GPS/GNSS stations' time position series.
- Outlined patterns and correlations from time series to understand changes of Earth's surface

Trainer & Problem Selection Committee Member, IMO Committee of Malaysia 2021-2023

- Trained the *Malaysian* national team for the International Math Olympiad (IMO)