

# Tristan T.S. Chaang



Sophomore at **Massachusetts Institute of Technology (MIT)**  
Major in Math, Comp Sci & 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, HTML, MATLAB, LaTeX  
**Languages:** English, Mandarin, Cantonese, Malay, French, Japanese  
**Published:** “Techniques for High School Mathematics Contests”

## Awards and Accomplishments

- Citadel Securities 2<sup>nd</sup> Annual Quant Research Invitational** – Champion (\$10000 Award) Winter 2025
- Implemented stochastic methods for algorithmic trading, particularly *ETF & statistical arbitrage*
  - Simulated a M. Carlo *Brownian Bridge* and performed *portfolio optimization* for 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

- Teaching Assistant (TA) and Grader** 2024-
- For Algorithms (6.1210), Classical Mechanics (8.011), and Real Analysis (18.100A)
  - Hold weekly office hours and recitations; proctor and grade exams
- Undergraduate Researcher** at MIT CS & AI Lab (CSAIL) 2024-
- 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
- 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
- Discover Citadel Program & D.E. Shaw Connect Event** 2023-2024
- Explored different roles through various trading-related activities and networking events.
- Trainer & Problem Selection Committee Member**, IMO Committee of Malaysia 2021-2023
- Trained the *Malaysian* national team (in English) for the International Math Olympiad (IMO)