Tristan ChaangCambridge, MA | +1 (617) 642 1190 | tchaang@mit.edu | tristanchaang.github.io | www.linkedin.com/in/tchaang

Education	
Massachusetts Institute of Technology, Cambridge, MA Candidate for BS in Mathematics & Computer Science and Engineering & a Minor in Physics Coursework Highlights: Algorithm Designs, ML, Quantum Computation, Statistics, Natural Language Processing, Software Design, Topology, Analysis	June 2027 GPA: 5.0/5.0 (Sophomore)
Experience	
Undergraduate Researcher, CS & AI Lab (CSAIL), MIT Self-Supervised Machine Learning Model for Screening Optimization in Connectomics Design and test self-supervised ML models to optimize data acquisition time via variable duration Make way for faster graph construction representing neuron connections in the brain	Fall 2024
Ceaching Assistant for Algorithms Class (6.1210) and Classical Mechanics (8.011) Hold weekly office hours and recitations; proctor and grade final exams	Spring and Fall 2024
Undergraduate Researcher, 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 Outline patterns and correlations from time series data to understand changes of Earth's surface	Spring and Summer 2024
Indergraduate Researcher, Department of Mathematics, MIT nivestigating the Motion of Pilot-Wave Walkers in a Circular Corral Study the behavior of droplets bouncing on a vibrating oil bath via MATLAB	Winter 2024
Youth Stem Cup 2023 Organizer, Malaysia Mead 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.	Summer 2023
MO Committee Malaysia, Malaysia Frainer 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
Activities & Extracurriculars	
024 Discover Citadel and Citadel Securities, New York Explore and learn about different roles at Citadel through various activities and networking events. if an Stage Theory (LOST) MIT.	Spring 2024
Life on Stage Theatre (LOST), MIT Cast actor for one of the lead characters in a student-led theatre play	2024-Present
wimming Club, Sunway College, Malaysia Help the committee run pool activities and teach beginners breaststroke and freestyle	2021-2023
Awards & Accomplishments	
William Lowell Putnam Mathematical Competition by MAA Honorable Mention (Top 100)	Fall 2023
nternational 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
Skills & Interests	
Fluency in English, Cantonese, Mandarin, and Malay; Beginner level in Japanese and F Familiarity with Python, C++, C, JavaScript, CSS + HTML5, LaTeX, MATLAB, Math "Techniques for High School Mathematics Contests" (on Google Books) Abstract Algebra, Topology, Quantum Physics, AL Programming, Linguistics	

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

Interests: