https://www.mikedin.com/m/tchaang		
Education		
<ul> <li>Massachusetts Institute of Technology, Cambridge, MA</li> <li>Candidate for Bachelor of Science in Computer Science and Engineering</li> <li>Candidate for Bachelor of Science in Mathematics</li> <li>Candidate for a minor in Physics</li> <li>Relevant Coursework:         <ul> <li>Algorithms, Machine Learning, Electronics, Analysis,</li> <li>Abstract Algebra, Quantum Physics, Macroeconomics, Linguistics</li> </ul> </li> </ul>	September 2027 GPA: 5.0/5.0 (Sophomore)	
<ul> <li>Sunway College, Kuala Lumpur, Malaysia</li> <li>Valedictorian, "Top in the World" and "Best Across Four Subjects" Award</li> <li>Cambridge GCE A-Levels: 4 A* SAT: 1550 IELTS: 8</li> <li>Coursework: Mathematics, Further Mathematics, Physics, Economics</li> </ul>	December 2022	
Experience		
<ul> <li>Teaching Assistant (TA), EECS Department, MIT UTA for 6.1210 (Algorithms)</li> <li>Hold weekly office hours and recitations for the class</li> <li>Proctor and grade the final exam</li> </ul>	Fall 2024	
<ul> <li>UROP, Department of Earth, Atmospheric, and Planetary Sciences, MIT  GPS/GNSS Jupyter Notebook Interface for Time Series Analysis</li> <li>Develop a Jupyter Notebook that allows users to utilize time position series data</li> <li>Integrate data from various GPS organizations into a user-friendly interface for easier access</li> <li>Outline patterns and correlations from time series data to understand changes of Earth's surface</li> </ul>	Spring and Summer 2024	
<ul> <li>Teaching Assistant (TA), Department of Physics, MIT UTA for 8.011 (Physics I / Classical Mechanics)</li> <li>Help students during group activities</li> <li>Grade problem sets on a weekly basis</li> </ul>	Spring 2024	
<ul> <li>Undergraduate Research Opportunities Program (UROP), Department of Mathematics, MIT Investigating the Motion of Pilot-Wave Walkers in a Circular Corral</li> <li>Study the behavior of droplets bouncing on a vibrating oil bath</li> <li>Demonstrate the consistency of pilot-wave dynamics with quantum mechanics</li> <li>Use MATLAB to model droplet dynamics and compare with experimental results</li> </ul>	Winter 2024	
<ul> <li>Youth Stem Cup 2023, Malaysia</li> <li>Head of Problem Selection Committee (PSC)</li> <li>Organize the first ever student-led national science Olympiad in Malaysia</li> <li>Lead the PSC to: Invite problem setters, produce the exam paper, cross-check validity etc.</li> <li>Successfully run the physical event with ~ 1200 participants from all over the country</li> </ul>	Summer 2023	
<ul> <li>IMO Committee Malaysia, Malaysia</li> <li>Trainer and Problem Selection Committee Member</li> <li>Train students in the IMO Selection Camp of Malaysia</li> <li>Write handouts and set problems for camp tests and IMO shortlist proposals</li> </ul>	2021-2023	

2018-2023

Academic Department, Kuen Cheng High School, Malaysia

Math Team Trainer, Math Presenter, Peer Learning Program Volunteer

- 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

Activities & Extracurriculars		
2024 Discover Citadel and Citadel Securities, New York  Explore and learn about different roles at Citadel through various activities and networking events.	Spring 2024	
Swimming Club, Sunway College, Malaysia  Help the committee run pool activities and teach beginners breaststroke and freestyle	2021-2023	
Science Week Opening Ceremony, Kuen Cheng High School, Malaysia  Plan and execute a large-scale performance for the annual science week  Successfully performed a huge elephant toothpaste demonstration	2019	
Awards & Accomplishments		
William Lowell Putnam Mathematical Competition by MAA  Honorable Mention (Top 100)	2023-2024	
International 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	
Chen Jing-Run Cup Math Contest by Xiamen University Malaysia  National Champion for 4 consecutive years	2017-2020	

## **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