

Education

Massachusetts Institute of Technology *Bachelor of Science*

Cambridge, MA, US

Majors: Mathematics, Artificial Intelligence and Decision Making; **Minor:** Economics

Sep 2022 - May 2026

- **GPA:** 4.8/5.0
- **Relevant Coursework:** Discrete Math, Topology, Probability, Statistics, Theory of Computation, Design & Analysis of Algorithms, Machine Learning, Deep Learning, Natural Language Processing, Optimization, Microeconomics

Experience

Parrot Smart Learning

Shanghai, China (Remote)

Cofounder, CTO

Jul 2024 - present

- Building a smart platform powered by a Large Language Model to help elementary and middle school students prepare for math contests
- Include Artificial Intelligence tutor, student weakness identification algorithm, and study schedule optimization

Tencent

Beijing, China

Artificial Intelligence Research Intern

Jun 2024 - Aug 2024

- Training on Large Language Models to solve Mathematics and Physics Olympiad problems
- Developing reward models to enhance performance in Monte Carlo Tree Search for a LLM good at math reasoning

MIT Computer Science & Artificial Intelligence Laboratory

Cambridge, MA, US

Research Assistant in FutureTech

Mar 2024 - present

- Determined optimal conditions for automating labor using computer vision models
- Developing a scaling law and cost-benefit estimation framework to guide industries in adopting machine learning for enhanced economic efficiency

Pui Ching Common Room ([Link](#))

Hong Kong, China

Cofounder

Oct 2021 - Apr 2023

- Established a pioneering social media platform dedicated in assisting high school students with academic, career development, and personal relationship queries; fostered collaboration between student groups and school officials
- Grew the platform to over 1600 active users, including students and alumni

Papers

The Johnson-Leader-Russel Question on Square Posets ([Link](#))

August 2021

- An algebraic combinatorics approach to an unsolved maximal chain system problem
- Completed in the Research Science Institute with support from MIT Department of Mathematics

Investigation on i-commuting Probabilities on Finite Groups ([Link](#))

August 2020

- A personal research project in abstract algebra; developed extension of the commuting probabilities on finite groups

Awards

U.S. Fencing Coaches Association Academic Award

July 2024

Scholar of Distinction (student-athlete with outstanding academic performance)

S.T. Yau High School Science Award (Mathematics)

December 2020

Silver Award (2nd worldwide)

Chinese Girls' Mathematics Olympiad

August 2020

Bronze Medal (Hong Kong Team representative)

Skills

Languages: English, Chinese - Madarin & Cantonese, German (beginner)

Programming: Python, R