



Dantong Li

New Haven, Connecticut, United States

 dtlics2000@gmail.com

 +14753014348

 [linkedin.com/in/dantongli](https://www.linkedin.com/in/dantongli)

Summary

My research interests are in the inter-discipline of Computational Complexity, Quantum Computing, and Machine Learning, especially in Quantum Computing for ML, to explore quantum advantages and their applications in the near-term future. In my spare time (which I don't have much right now), I also enjoy following up with classical AI breakthroughs, game development, and algorithmic trading.

Experience



Undergraduate Researcher

The University of Hong Kong

Jan 2022 - May 2022 (5 months)

Studied Natural Language Processing on Non-Autoregressive Models for Long Story Generation.

Advisor: Prof. Lingpeng Kong



Undergraduate Researcher

The University of Hong Kong

Jan 2021 - Jan 2022 (1 year 1 month)

Studied Quantum Information on quantifying incompatibility between quantum measurements.

Paper under review and can be found on [arXiv 2208.06210].

Advisor: Prof. Giulio Chiribella



Teaching Assistant

The University of Hong Kong

Sep 2020 - May 2021 (9 months)

1. Teaching Assistant on Python (Programming language) -- COMP1330.
2. Teaching Assistant on Multivariable Calculus -- MATH2211.



Undergraduate Researcher

The University of Hong Kong

Jun 2020 - Sep 2020 (4 months)

Studied Quantum Cryptography on certifying the randomness of quantum random number generator.

Advisor: Prof. Ravishankar Ramanathan

Education



Yale University

Doctor of Philosophy - PhD, Computer Science

Aug 2022 - May 2028

Research Field: Quantum Computing

Advisor: Prof. Yongshan Ding



The University of Hong Kong

Bachelor's degree, Computer Science

Sep 2018 - May 2022

Major in Computer Science; Minor in Mathematics;

First-Class Honor;

Thesis: Variational Quantum Circuit Compression

Advisor: Prof. Giulio Chiribella

Skills

Quantum Computing • Natural Language Processing (NLP) • Quantum Information • Machine Learning
• Optimization • Multivariable Calculus • Amazon Web Services (AWS) • C++ • Python (Programming Language) • Algorithmic Trading

Honors & Awards



2018 - 2019 Dean's Honours List - The University of Hong Kong

Jan 2020

To recognize students' outstanding academic achievements.



2018 - 2019 Walter Brown Memorial Prizes in Mathematics - The University of Hong Kong

Jan 2020

The best student in Mathematics, on the recommendation of the Head of Mathematics, among those completing the BSc 2nd year.



2019 - 2020 AEON Scholarship (\$10,000 HKD) - The University of Hong Kong

Jan 2021

The Scholarship shall be awarded based on academic merit.



2019 - 2020 PCCW-HKT Prize in Computer Science (\$10,000 HKD) - The University of Hong Kong

Jan 2021

The Scholarship shall be awarded based on academic merit.



2019 - 2020 Dean's Honours List - The University of Hong Kong

Jan 2021



2020 - 2021 AEON Scholarship (\$10,000 HKD) - The University of Hong Kong

Mar 2021