

Tang Ziao

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Education

The University of Hong Kong, Pok Fu Lam, Hong Kong
Bachelor of Science (2021-2025) **09/2021 - 05/2025**
Major: Mathematics

The Hong Kong University of Science and Technology (Guangzhou), Nansha, Guangzhou
PhD in Artificial Intelligence **09/2025 – Present**
Primary Supervisor: Dr. Bai Ge
Co-Supervisor: Prof. Felix Xin Wang

Internship & Research Experience

The University of Hong Kong, Pok Fu Lam, Hong Kong **09/2023 – Present**
Research Assistant

Supervisor: Dr. Yang Yuxiang, Prof. Zhang Shengyu

- Conducted research on quantum approximation optimization problem (QAOA) and parametric quantum circuits.

National Supercomputing Center in Shenzhen, Shenzhen, China **06/2023 - 09/2023**
Department of High-Performance Computing
Research Internship
Supervisor: Dr. Xu Qimen

- Implemented band structure calculation module within the parallel Kohn-Sham Density Functional Theory (DFT) simulation software, SPARC, using C language and message passing interface (MPI), along with the prototype code M-SPARC in MATLAB, accessible at <https://github.com/SPARC-X/SPARC> and <https://github.com/SPARC-X/M-SPARC>, respectively.
- Improved and tested the extended first-principles molecular dynamics (ext-FPMD) method for high temperature simulations within the SPARC code.

The University of Hong Kong, Pok Fu Lam, Hong Kong **05/2023 - 08/2023**
Part-time Student Assistant
Supervisor: Prof. Ching Waiki

- Prepare notes and sample MATLAB code for lecture slides of *Application of Linear Algebra in AI*.

Skills

- Languages: Mandarin and English (ielts band 7).
- Programming Languages: MATLAB, Python, and C/C++.

- Experience with high performance computing packages (Quantum-Espresso, VASP, Abinit, etc.) run on clusters.

Research Interests

- Quantum information and computing
- High performance computing/Scientific computing

Hobbies

- Rubik's cube speed solve 12.35 average, 10.01 single.
<https://www.worldcubeassociation.org/persons/2024TANG06>