Zhen Qi

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Education

The University of Hong Kong *Sept 2023 – Present*
BEng in Computer Science

- **GPA:** 3.98/4.3
- **Coursework:** Data structures and algorithms, Computer Architecture, Quantum computation, Optimization methods, Probability and Statistics
- **Currently self-learning:** RL, LLM, Computer Graphics, Web development

The Affiliated High School of SCNU, CHINA *Sept 2020 – June 2023*

- Chinese National College Entrance Examination certificate (graduated among the top 0.2%)

Experience

Mitacs Researcher *Toronto, CA*
York University *June 2025 – Present*

- Implement Grey Wolf Optimizer with Rastrigin function to prove that Grey Wolf Optimizer is center-bias and come up with a remedy

Research Assistant *Hong Kong, CHINA*
XLANG LAB, HKU *Nov 2024 – Present*

- Define benchmarks for OSWorld computer agents training
- Define tasks for VLA(vision-language-action model) training

Teaching Assistant *Hong Kong, CHINA*
The University of Hong Kong *Sept 2024 – Dec 2024*

- Manage tutorials weekly and answer questions in the forum
- Mentoring students in Linux operation, C++ and C# programming

General Secretary & Financial Secretary *Hong Kong, CHINA*
Calligraphy Society, HKU *Feb 2024 – Mar 2025*

- Manage administrative tasks and communications within the calligraphy society
- Handles financial matters and budgeting for the society

Projects

Image Classification model *GitHub Repository*

- Developed a traditional machine learning model for classify CIFAR-10 dataset, achieving accuracy 70%
- Tools Used: Python

Optimization Problem solved *GitHub Repository*

- Using gradient descent algorithm and SPSA(Simultaneous Perturbation Stochastic Approximation) algorithm to find the optimal investment strategy
- Using SA(Stochastic Approximation) model to find the optimal service time in queuing problem
- Tools Used: Python

Technologies

Languages: Python, C++, C, Java, JavaScript

Technologies: LaTeX, MATLAB