

Yuanqing Ma

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Education

BS	The Chinese University of Hong Kong, Shenzhen, Computer Science and Engineering	Sept 2024 – Present
	<ul style="list-style-type: none">• CGPA: 3.929/4.000• CGPA Ranking in Major: 5/238• Coursework: Honors Calculus I & II, Linear Algebra, Data Structures, Matrix Computations, Honors Machine Learning, Reinforcement Learning	

Research Experience

Research Assistant, The Chinese University of Hong Kong, Shenzhen	Sept 2025 – Present
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Topics: In-Context Reinforcement Learning

Advised by Prof. Chenjun Xiao (School of Data Science, CUHK(SZ), Shenzhen, China)

- Reviewed key works in the field, including *Algorithm Distillation* and *Decision-Pretrained Transformer*
- Currently working on enhancing data utilization to improve the performance of AD Transformers

Projects

Implementation of Algorithm Distillation	GitHub ↗
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- Original Paper from <https://arxiv.org/abs/2210.14215>
- In-Context learned to solve the darkroom environment by distilling the learning history of PPO agents.

Hand-Written Number Classification as a Bandit problem	GitHub ↗
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- Used the MNIST dataset to build the environment, with reward +1 for selecting the correct number, otherwise -1.
- Run Policy Gradient to train the agent.

Course Projects

Reinforcement Learning	Fall 2025
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- Implementation of DQN on the game of Cartpole: [Colab ↗](#)
- Implementation of PPO on the Pendulum-v1 Environment: [Colab ↗](#)
- Literature Review on In-context Reinforcement Learning: [PDF ↗](#)

Computational Laboratory Using Java	Spring 2025
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<https://github.com/tommyma3/CSC1004>

- **Java "Chatroom":** Supports multiple threads and command-line interfaces, allowing each user to send and receive messages to and from all others in real-time
- **Gomoku Game:** Traditional “Gomoku” game with JavaFX GUI
- **Python Snake Game:** Traditional Snake Game implemented with Python

Teaching

Undergraduate Student Teaching Fellow (USTF), CUHK(SZ)

- CSC1003: **Introduction to Computer Science and Java Programming**, Fall 2025
- MAT2041A: **Foundations of Linear Algebra and its Applications**, Spring 2026

Honors

Dean's List Award, School of Data Science, CUHK(SZ)

AY2024–25

Academic Performance Scholarship: Class A, School of Data Science, CUHK(SZ)

AT2024–25

Master's List, Shaw College, CUHK(SZ)

AY2024–25

Skills

Programming Languages: C, C++, Java, Python

Tools: Git, GitHub, PyTorch, NumPy, LaTeX, Markdown

Language Proficiency: English

Extracurricular Activity

Shaw College Men's Soccer Team

Sept 2024 – Present

- Player & Assistant Coach
- Won the Gold Medal in the Men's Soccer Competition at the CUHK(SZ) Olympics in April 2025

Student Assistant for the Information Technology Service Office (ITSO) at CUHK(SZ)

Oct 2024 – Present

- Technical Assistant
- Assisting ITSO staff in offering IT service on campus, including the CUHK(SZ) email and websites