Yuanqing Ma

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Education

BS	**The Chinese University of Hong Kong, Shenzhen**, Computer Science and Engineering	Sept 2024 – Present

- **GPA**: 3.936/4.000
- **Ranking in Major**: **4**/239
- **Coursework:** Honors Calculus I & II, Linear Algebra, Introduction to Computer Science and Java Programming, Data Structures, Matrix Computations, Reinforcement Learning

Research Experience

Research Assistant, *The Chinese University of Hong Kong, Shenzhen*   Sept 2025 – Present
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⧉

- 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⧉

- 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

CSC1004: Computational Laboratory Using Java   Spring 2025
`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

DDA4230: Reinforcement Learning   Fall 2025

- 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⧉

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