

# Qunzhong WANG

Department of Mathematics | Department of Information Engineering  
The Chinese University of Hong Kong

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## Objective

To apply for a summer internship (remote/in person) in 2026.

## Education

### The Chinese University of Hong Kong

Double Major in Mathematics and Information Engineering

Overall GPA: 3.927/4.000

Hong Kong, China

Sep 2023 - Jul 2027 (Exp.)

### University of Washington

Exchange Program in Computer Science and Engineering

Seattle, USA

Sep 2025 - Dec 2025

## Research Interests

- **Principles of AI Systems backed by Math:** Understanding the mathematical principles behind model representation capacity, training dynamics, and generalization. Leveraging these principles to design better and more scalable architectures, optimizers, training methods.
- **Reinforcement Learning on Large Models:** Aligning Large Language Models (LLMs), Vision-Language Models (VLMs), and their derivative Agents with specific human preferences and demands, with techniques like Reinforcement Learning from Human Feedback (RLHF) and Reinforcement Learning with Verifiable Reward (RLVR).

## Academic Experience

- **Database Research Group, The Chinese University of Hong Kong** Hong Kong, China  
*Research Assistant, Advised by Prof. Hong Cheng* May 2024 - Sep 2024
  - **Research Focus:** Provided key theoretical proofs for a transfer learning approach, Prompting, in Graph Neural Networks.
- **The Alan Turing Institute, The United Kingdom** Edinburgh, United Kingdom  
*Research Assistant, Advised by Prof. Sotirios Sabanis* Jun 2025 - Aug 2025
  - **Research Focus:** Convergence analysis of stochastic algorithms in optimization algorithms.
- **Department of Computer Science, Princeton University** Princeton, USA  
*Research Assistant, Advised by Prof. Zhuang Liu* Sep 2025 - Present
  - **Research Focus:** Reasoning properties of VLM under supervised fine tuning & reinforcement learning

## Industry Experience

- **Kling AI technology Department, Kuaishou Technology** Shen Zhen, China  
*Internship, Worked closely with fellows from MMLab, CUHK.* Oct 2024 - Sep 2025
  - **Research Focus:** Post-Training of Video Generation Models and Adapting Vision-Language Models as Reward Models

## Publication & Working Papers

1. **Qunzhong Wang\***, Xiangguo Sun\*, Hong Cheng. **Does Graph Prompt Work? A Data Operation Perspective with Theoretical Analysis.** International Conference on Machine Learning (ICML), 2025. [Paper] [arXiv] [Code]
2. Yilei Jiang\*, Yaozhi Zheng\*, Yuxuan Wan, **Qunzhong Wang**, Jiaming Han, Michael R. Lyu, Xiangyu Yue. **ScreenCoder: Advancing Visual-to-Code Generation for Front-End Automation via Modular Multimodal Agents.** Under review ICLR 2026. [Paper] [arXiv] [Code]
3. **Qunzhong Wang\***, Jie Liu\*, Jiajun Liang\*, Yilei Jiang, Yuanxing Zhang, Yaozhi Zheng, Xintao Wang, Xiangyu Yue, Jiaheng Liu. **VR-Thinker: Boosting Video Reward Models through Thinking-with-Image Reasoning.** Under review ICLR 2026. [Paper] [arXiv] [Code]

## Honors & Awards

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- Talent Development Scholarship (HK\$10,000 awarded by HK Government) 2025
- Professor Charles K. Kao Research Exchange Scholarships (HK\$50,000 awarded by CUHK) 2025
- Meritorious Winner, International Mathematical Contest in Modeling (Top 4%) 2024
- Dean's List, CUHK 2024
- 11th in East Division, Simon Marais Mathematics Competition 2023
- Prof Omar Wing Mem Scholarship (HK\$40,000 awarded by CUHK) 2023
- Soong Ching Ling Scholarship (¥400,000 awarded by Chinese Government) 2023
- Admission Scholarship (HK\$50,000 awarded by CUHK) 2023
- **Gold Medal, China Mathematics Olympiad (National final)** 2022
- First Prize, China Physics Olympiad (Provincial) 2022
- First Prize, China Chemistry Olympiad (Provincial) 2022

## Foundations

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- **Main Courses:**
  - Mathematics:** Real Analysis, Complex analysis, Partial Differential Equations, Probability Theory
  - Computer Science:** Algorithm Design & Analysis, Computer Organization & Architecture, Operating System
- **Technical Skills:**
  - Languages:** C, C++, Python, Matlab, SQL, HTML
  - Frameworks:** PyTorch, DeepSpeed, Ray, vLLM, HuggingFace toolkit

## Language Skills

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- **Mandarin:** Native
- **Cantonese:** Intermediate
- **English:** Fluent (IELTS 7.5, Speaking 7.0)