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EDUCATION

• The Chinese University of Hong Kong, Hong Kong	2025-2026
<i>Master of Science in Information Engineering</i>	Ongoing
• The Hong Kong Polytechnic University, Hong Kong	2020-2024
<i>Bachelor of Science in Computer Science</i>	Graduated with Second Class Honours Division I
• University of Cambridge	2022
<i>Mathematics for Engineers Programme</i>	Certificate Granted
• Chengdu No. 7 High School	2017-2020
<i>High school diploma</i>	Graduated

EXPERIENCE

• Department of Information Engineering, CUHK	September 2025 - present
<i>Research Project</i>	Hong Kong
– MLLM Reasoning for Next Generation live-streaming Digital Human	
– QWen3-Omini + Wan-S2V Pipeline Construction, Baseline Deployment	
• ARISE Lab, Department of Computer Science and Engineering, CUHK	March 2025 - present
<i>Co-researcher</i>	Hong Kong
– Front-end Coding intelligence analysis for Multimodal LLMs Baseline	
– Data Collection and Processing, Metrics, Evaluation, Benchmarking	
– Building AI Agent system as Metareviewer for an academic paper review	
– Agentic AI, MLLM, RAG, MoE	
• Department of Computing, PolyU	June 2024 - September 2024
<i>Research Assistant (Full-time)</i>	Hong Kong
– Temporal Graph Neural Network (TGNN), Link Prediction and Node Classification	
– Model Testing, Evaluation Baseline testing and Benchmarking	
• Code for Asia Ltd.	June-August, 2023
<i>Student internship</i>	Singapore
– Front-end Development	
– AI Problem-solving Architect	
• Department of Building and Real Estate, PolyU	April 2023- June 2024
<i>Research Assistant (Part-time)</i>	Hong Kong
– LLM-driven Online Social Network Analysis	
– Data Retrieval, Large Language Model, Social Network Analysis, Paper Completion	

PUBLICATIONS & PREPRINTS

- J. Xiao, M. Wang, M. H. Lam, Y. Wan, J. Liu, Y. Huo and M. R. Lyu, "DesignBench: A Comprehensive Benchmark for MLLM-based Front-end Code Generation", in arXiv preprint, 2025, doi: [10.48550/arXiv.2506.06251](https://arxiv.org/abs/2506.06251)
Keywords: MLLM, Code Intelligence, Software Engineering, Benchmark
- M. Wang, R. Ma, G. Q. Shen and J. Xue, "How Large Language Model Empowers the Analysis of Online Public Engagement for Mega Infrastructure Projects: cases in Hong Kong", in IEEE Transactions in Engineering Management (IEEE-TEM), 2025, doi: [10.1109/TEM2025.3553595](https://doi.org/10.1109/TEM2025.3553595)
Keywords: Large Language Model, Social Network Analysis, Public Engagement, Mega Projects
- R. Ma, G. Q. Shen, P. Lou and M. Wang, "Large Language Model-based data-driven framework for digital transformation in construction industry," in ASCE International Conference on Computing in Civil Engineering 2024 (i3CE), doi: [10.1061/9780784486115.012](https://doi.org/10.1061/9780784486115.012)
Keywords: Large Language Model, Digital Transformation, Engineering Management

PROJECTS

- **Data vs Pipeline Parallelism in LLM Training** October 2025
Aims to build a VR Metaverse system for elderly rehabilitation training.
– Implements distributed training methods, including data parallelism and pipeline parallelism across multiple GPUs.
- **Robotic-guided Self-help Rehabilitation in Metaverse for stroke patients** March - May 2023
Aims to build a VR Metaverse system for elderly rehabilitation training.
– Tools & technologies used: Leap Motion, Unity, UART for data transmission
– The forearm wearable device is developed by PolyU BRE
- **LLM-empowered Family Healthcare Management System** January - March 2024
A smarter family healthcare system with personalized medical inquiry and app operation via word inputs.
– Tools & technologies used: Python, Java, LLM, Prompt Engineering

TECHNICAL SKILLS AND INTERESTS

Languages: English, Mandarin, Cantonese

Developer Tools: PyCharm, VSCode, IntelliJ IDEA

Programming Languages: C/C++, Java, Javascript, Python, R

Libraries: Torch, Tensorflow, NetworkX, Sklearn, Pandas, Matplotlib, Seaborn

Operating Systems: Windows, Linux

Areas of Interest: MLLM, Software Engineering, Agentic AI, Social Network Analysis

POSITIONS OF RESPONSIBILITY

- **Reviewer**, IEEE Transactions in Engineering Management (IEEE-TEM) May 2025-October 2025
- **Student Ambassador**, Amazon Web Services(AWS) 2023-2024
- **First Aid Brigade Member**, Hong Kong St. John Ambulance July 2024-Present

ACHIEVEMENTS

- **Certificate of Outstanding Contribution**, AWS Student Ambassador Programme 2023
- **Excellent Teaching Team**, STEM Education for Children, PolyU Service Learning Programme 2022
- **3rd Prize**, National Olympics for Informatics in Provinces (NOIP), China 2018