

Wang "Melvin" Ming

BSc (Hons) in Computer Science

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🌐 LinkedIn Profile

EDUCATION

- **The Hong Kong Polytechnic University, Hong Kong** 2020-2024
Bachelor of Science in Computer Science Graduated with Second Class Honours Division I
- **University of Cambridge** 2022
Mathematics for Engineers Programme Certificate Granted
- **Chengdu No. 7 High School** 2017-2020
High school diploma Graduated

EXPERIENCE

- **Department of Computer Science and Engineering, CUHK** March 2025 - present
Co-researcher Hong Kong
 - Coding intelligence analysis for Multimodal LLMs
 - Data Collection and Processing, Evaluation, Benchmarking
- **Department of Computing, PolyU** June 2024 - September 2024
Research Assistant (Full-time) 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
Student internship Singapore
 - Front-end Development
 - AI Problem-solving Architect
- **Department of Building and Real Estate, PolyU** April 2023- June 2024
Research Assistant (Part-time) 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**
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/TEM.2025.3553595**
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 2024 Conference on ASCE Computing in Civil Engineering (i3CE), Pittsburgh, United States**
Keywords: Large Language Model, Digital Transformation, Engineering Management

PROJECTS

- **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, Knowledge Graph, Social Network Analysis

POSITIONS OF RESPONSIBILITY

- Invited Reviewer, IEEE Transactions in Engineering Management (IEEE-TEM) May 2025-June 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