

# Wang "Melvin" Ming

BSc (Hons) in Computer Science

The Hong Kong Polytechnic University, Hong Kong

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🐙 GitHub Profile

ORCID

🌐 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

## SELECTED PUBLICATIONS

- **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*
- **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*

## PERSONAL PROJECTS

- **Robotic-guided Self-help Telerehabilitation 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: GNN, LLM, Knowledge Graph, Social Network Analysis

POSITIONS OF RESPONSIBILITY

- 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