

Wang "Melvin" Ming

BSc (Hons) in Computer Science

The Hong Kong Polytechnic University, Hong Kong

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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 Computing, PolyU** June 2023 - 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

- (Published) 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
- (Under 2nd Review) M. Wang, R. Ma, G. Q. Shen and J. Xue, "How Large Language Model Empowers Online Public Engagement Analysis for Mega Infrastructure Projects: cases in Hong Kong" submitted to IEEE Transactions in Engineering Management (TEM), 2024
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)	<i>2023-2024</i>
• First Aid Brigade Member , Hong Kong St. John Ambulance	<i>July 2024-Present</i>

ACHIEVEMENTS

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