Wang Ming, Melvin
BSc (Hons) in Computer Science
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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 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) — *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*