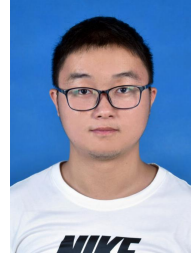


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EDUCATION

City University of HongKong

MSc Of Multimedia Information Technology

Kowloon Tong, Kowloon, China Hongkong

January 2024 - October 2025

HuNan University of Technology

Bachelor Degree of Intelligent Science and Technology

ZhuZhou, HuNan, China

September 2019 - July 2023

RESEARCH

- **Li, Y., Yang, N., Zhao, Z., and Wen, H. MOL-E³: Multi-Modal LLM with Reinforcement and Genetic Evolution for Enhanced Molecular Design. *Manuscript in preparation*, 2026.**
Developed a multi-modal molecular design framework integrating large language models, reinforcement learning, and genetic evolution to enhance molecular generation and optimization through fragment-level exploration and multi-modal representation learning.
- **Li, Y. A ML-Based Shared Bike Demand Prediction Based on Dynamic Golden Distance. Master's thesis, 2025.**
Proposed a machine learning-based framework for shared bike demand prediction using dynamic golden distance, integrating spatial and temporal factors to improve demand forecasting and support intelligent urban mobility optimization.
- **Zhao, Z., Wang, P., Li, Y., Tang, H., Zhang, Y., Huang, Q., Liu, F., Zhang, Q., and Wang, Y. Multi-modal Collaborative Model Evolution: Automated Discovery and Refinement of Graph Augmentation Strategies. Submitted to *ACM Multimedia (ACM MM)*, 2025.**
Developed an automated framework for discovering and refining graph augmentation strategies through multi-modal collaborative model evolution, improving adaptability and performance in graph representation learning across diverse tasks and datasets.
- **Wen, H., Zhao, Z., Lin, X., Yin H., Li, Y., Zhang, Q., and Tang, J. Multi-Task Learning through the Lens of Causality. Submitted to *NeurIPS*, 2025.**
Investigated multi-task learning from a causal perspective and contributed to a framework for modeling inter-task relationships with improved interpretability and generalization.

PATENTS

- **Dynamic Physician Handover Prediction via Offline-Online Deep Reinforcement Learning with Mixture-of-Experts**, Proposed a novel framework integrating Mixture-of-Experts (MoE), graph neural networks (GNNs), and knowledge graphs within an offline-online deep reinforcement learning paradigm to address uncertainty and low automation in clinical handover processes. The invention has passed preliminary patentability searches and meets key examination criteria. (Patent filed)

WORK EXPERIENCE

AI Research Scientist, Innovation Center

Lachesis Smart Healthcare Technology (HK) Co., Ltd.

November 2025 – Present

- Lead technical research on core AI/LLM algorithms for smart hospitals, including OpenClaw-based digital employees, medical QA systems, AI-assisted diagnosis, and 3D digital human avatars.
- Spearhead academic-industry collaborations, grant proposals, and patent drafting in AI-driven healthcare solutions.
- Monitor and advance state-of-the-art AI Healthcare Agents through continuous architecture refinement and performance optimization.

Part-time Research Assistant

Institute of Automation, Chinese Academy of Sciences

January 2026 – Present

- Contribute to patent drafting and the preparation of technical and research-related documentation for ongoing projects.

- Support manuscript discussion, academic communication, and the refinement of research outputs in collaboration with the research team.
- Assist with ongoing scholarly collaboration and project coordination on a part-time basis.

Multimodal LLM Algorithm Engineer

Guangming Laboratory, Shenzhen University

January 2025 – May 2025

- Led development of an LLM-agent system that automatically generates workflows for image generation and editing as first author.
- Researched and replicated [ComfyUI](#) and [GenArtist](#), then designed and implemented the integrated system with a focus on LLM integration and optimization.
- Deployed demo available at: [Auto Creative Agent \(Trial\)](#)

HONOR

- 26/12/2023 **Computer Software Copyright Registration Certificate** for “New Energy Industry Chain Full Scenario Discovery System Based on Knowledge Graph”. [Copyright](#)
- 03/2022–09/2022 **Provincial Third Prize**, the 8th Hunan Provincial “Internet Plus” College Students Innovation and Entrepreneurship Competition (Industrial Thesis Track, “CCB Cup”). [Third Prize](#)
- 12/2022 **National Third Prize**, the 14th National College Student Mathematics Competition. [Third Prize](#)
- 12/2022 **Provincial Second Prize**, 2022 Hunan Provincial College Student Mathematics Competition (Non-Mathematics), awarded by the Hunan Provincial Department of Education. [Second Prize](#)
- 11/2021 **National Professional Qualification**: Intermediate Software Designer, certified by the Ministry of Human Resources and Social Security. [Qualification](#)
- 11/2021 **CET-6 Certificate**, College English Test Band 6, Ministry of Education. [CET-6](#)

