JIACONG MI

+44 7343062187 ◇ jiacongmi@gmail.com ◇ Google Scholar

Education

University of Glasgow **2026.4 – present**
Ph.D. in Public Health (AI for Science) Supervisor: Prof. Honghan Wu

Monash University **2021.9 – 2024.6**
Master of Information Technology Systems (Dual Degree Program)

Southeast University **2021.9 – 2024.6**
Master of Artificial Intelligence (Dual Degree Program) Supervisor: Prof. Jieyue He
Thesis: Research and Implementation of Medication Recommendation and Clinical Prediction Based on Electronic Health Records

Shandong Normal University **2017.9 – 2021.6**
Bachelor of Computer Science and Technology

Research Interests

Methodology	Biomedical AI, Foundation Models for Science, Graph Neural Networks, Self-supervised & Multimodal Learning, Interpretable AI
Applications	Longitudinal Electronic Health Records (EHR) Mining, AI-driven Drug Discovery, Clinical Decision Support Systems, Chronic Disease Management

Research Experience

Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences *Research Assistant* **2025.11 – 2026.4**
- Developed an interpretable deep learning framework using EHR and continuous glucose monitoring (CGM) data to predict diabetes drug responses, achieving better performance than baseline models.

neoX Biotech *AI Drug Discovery Algorithm Intern* **2023.05 – 2023.08**
- Proposed and developed a 3D molecular generation model leveraging protein pockets and pre-trained molecular representations, achieving better sampling performance on the Crossdocked dataset.

Insilico Medicine *Bioinformatics Intern* **2022.12 – 2023.01**
- Optimized hERG ion channel prediction models for early cardiac toxicity assessment by experimenting with advanced molecular representations, including Graph Neural Networks (GNNs) and molecular fingerprints.

Publications

Jiacong Mi, Yi Zu, Zhuoyuan Wang, and Jieyue He. ACDNet: Attention-guided Collaborative Decision Network for effective medication recommendation. *Journal of Biomedical Informatics*, 2024.

Honghan Wu, Tianyan Wang, **Jiacong Mi**, Zhoyang Jiang, and Yunsoo Kim. HH-SAE: Discovering and Steering Hierarchical Knowledge of Complex Manifolds. *arXiv preprint arXiv:2605.10536*, 2026.

Zhaoyang Jiang, Zhizhong Fu, Yunsoo Kim, **Jiacong Mi**, Zicheng Li, Xuanqi Peng, and Honghan Wu. A Regime Theory of Controller Class Selection for LLM Action Decisions. *arXiv preprint arXiv:2605.06339*, 2026.

Zhiwei Li, Guoqiang Zhou, Haoran Li, **Jiacong Mi**, Jiahua Shi, and Jun Shen. Deep Learning-Driven Protein-Ligand Binding Affinity Prediction: Data, Architecture, Training and Evaluation. *IEEE Transactions on Computational Biology and Bioinformatics*, 22(6):3419–3437, 2025.

Yuxi Liu, Zhenhao Zhang, **Jiacong Mi**, Shirui Pan, Tianlong Chen, Yi Guo, Xing He, and Jiang Bian. GatorCLR: Personalized predictions of patient outcomes on electronic health records using self-supervised contrastive graph representation. *Journal of Biomedical Informatics*, 168:104851, 2025.

Yi Zu, **Jiacong Mi**, Lingning Song, Shan Lu, and Jieyue He. Finformer: A static-dynamic spatiotemporal framework for stock trend prediction. In *2023 IEEE International Conference on Big Data (BigData)*, pages 1460–1469. IEEE, 2023.

Hua Pu, **Jiacong Mi**, Shan Lu, and Jieyue He. Rokepg: Roberta and knowledge enhancement for prescription generation of traditional chinese medicine. In *2023 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, pages 4615–4622. IEEE, 2023.

Zhuoyuan Wang, **Jiacong Mi**, Shan Lu, and Jieyue He. Multimodal-learning for predicting molecular properties: A framework based on image and graph structures. *arXiv preprint arXiv:2311.16666*, 2023.

Awards

Southeast University Academic Scholarship **2021, 2022**
Awarded for academic excellence at Southeast University.

University of Glasgow Full Tuition Scholarship **2026**
Awarded a full tuition fee scholarship at the University of Glasgow.

Projects

TCM Knowledge Graph Tool | Python, Flask, HTML, JavaScript **2021.9 – 2021.11**

- Developed a Traditional Chinese Medicine knowledge graph system supporting CRUD (create, read, update, delete) operations for efficient data management.
- Implemented Neo4j for graph storage and Flask for backend services, with HTML/JavaScript for frontend interface.

Technical Skills

Programming Languages	Python, LaTeX , Bash, Git
Frameworks & Tools	PyTorch, PyTorch Geometric, Deep Graph Library (DGL), TensorFlow, Scikit-learn
Deep Learning & AI	Transformer, GNN, CNN, RNN, Attention Mechanisms, Graph Embeddings
Languages	Chinese, English