Xi Zhang

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RESEARCH INTERESTS

I am generally interested in computer vision, machine learning, and the application of **Multimodal Large Language Models** in AI4Science. My recent work focuses on developing steerable vision-language models for radiology. My first baby is **Libra**.

EDUCATION

The University of Glasgow, Glasgow, UK *2023 - present*
PhD in Computing Science (Research)
- Advisors: Dr. Zaiqiao Meng (Primary Supervisor), Dr. Jake Lever, Dr. Edmond S. L. Ho
- Research title: Generative Multi-modal BioMedical Natural Language Modelling

The University of Sydney, Sydney, Australia *2019 - 2022*
Master of Information Technology (Major in Data Management and Analytics)
Master of Information Technology Management
- Advisor: Dr. Caren Han
- Thesis: Question Answering on PDF Documents

Dalian University of Technology, Dalian, China *2014 - 2018*
Bachelor of Engineering (Major in Software Engineering)
- Advisor: Prof. Miao Zhan
- Thesis: Research on Removing Occlusion in Integral Imaging Systemg

PUBLICATIONS

Xi Zhang, Zaiqiao Meng, Jake Lever, Edmond S. L. Ho. *Libra: Leveraging Temporal Images for Biomedical Radiology Analysis.* In submission to ICLR 2025.

Xi Zhang, Zaiqiao Meng, Jake Lever, Edmond S. L. Ho. *Gla-AI4BioMed at RRG24: Visual Instruction-tuned Adaptation for Radiology Report Generation.* In Proceedings of the 23rd Workshop on Biomedical Natural Language Processing, pages 624–634, Bangkok, Thailand. Association for Computational Linguistics (ACL), 2024.

EXPERIENCES

Graduate Teaching Assistant
- COMPSCI4064&5088 Big Data: Systems, Programming, and Management (H&M), University of Glasgow *2025*
- COMPSCI5057 Human Computer Interaction Design and Evaluation (M), University of Glasgow *2025*
- COMPSCI4075&5091 Recommender Systems (H&M), University of Glasgow *2025*
- COMPSCI5089 Introduction to Data Science and Systems (M), University of Glasgow *2024*

Volunteer
- 46th European Conference on Information Retrieval (ECIR), Glasgow, UK *2024*

Exchange Programme
- Graduate School of Business, Stanford University, CA, USA *2016*
- College of Information Science and Engineering, Ritsumeikan University, Kyoto, Japan *2015*

PROFESSIONAL ACTIVITIES

Conference Reviewer:
- European Conference on Information Retrieval (ECIR), 2025

Journal Reviewer:
- Information Processing and Management, 2024

SKILLS

- Languages: Chinese, English, Japanese
- Programming: Python, Java, Matlab, MySQL, Tableau
- Misc: PyTorch, Tensorflow, LaTeX, Markdown