LIU ZHAOBIN (刘招斌)

E-mail: zhaobiliu2@cityu.edu.hk
Tel: +852 61903858

EDUCATION

City University of Hong Kong (CityU) **October 2025**
Doctor of Philosophy
Major: Information Systems
Dissertation: A Human-AI Collaboration-Enhanced Recommendation Framework for Patent Co-Development in University
Supervisor: Prof. MA Jian

City University of Hong Kong (CityU) **2021**
Master of Science
Major: Business and Data Analytics

Sun Yat-sen University (SYSU) **2018**
Bachelor of Engineering
Major: Software Engineering
Bachelor of Management
Major: Marketing (Double Degree)

WORK EXPERIENCE

City University of Hong Kong (CityU) **07/2025-Present**
Teaching Consultant in Department of Information Systems

RESEARCH INTERESTS & METHODOLOGY

- AI for Business

JOURNAL PUBLICATIONS

1. **Liu, Z.**, *Deng, W., Zeng, J., Zhu, W., & Ma, J. (2026). Sequential patent recommendation for alliance firms: a deep learning approach integrating technological diversity and peer influence. ***Scientometrics***, 1-33.
2. Xu, Q., ***Liu, Z.**, & Ma, J. (2026). Meeting companies' innovative requirements on online technology trading platforms: A novel large language model-based framework. ***Information Processing & Management***, *63*(2), 104392.
3. Zhang, Y., **Liu, Z.**, Bai, S., *Xu, T., & Lau, R. Y. (2025). Reference decisions enhance LLM performance, amplified by source disclosure. ***Digital Health***, *11*, 20552076251342078.
4. **Liu, Z.**, Zhang, Y., *Deng, W., Ma, J., & Fan, X. (2024). A deep learning method for recommending university patents to industrial clusters by common technological needs mining. ***Scientometrics***, 1-25.
5. Deng, W., Zhu, P., Chen, H., **Liu, Z.**, & Feng, G. (2024). Recommending physicians with multimodal data and medical knowledge graph on healthcare platforms. ***Journal of***

Information Science, 01655515241281828.

6. Ma, J., Zheng, Z., *Zhu, P., & **Liu, Z**. (2024). A Machine Learning and Large Language Model-Integrated Approach to Research Project Evaluation. ***Journal of Database Management (JDM)***, *35*(1), 1-14.

WORKING PAPERS

7. Xu, Q., ***Liu, Z.**, & Ma, J. (2026). Beyond Matching: An RBV-Guided LLM Agent Solution for Patent Consultation on Technology Transfer Platforms. ***Under Review, Information & Management.***
8. **Liu, Z.**, & Wang, C. (2026). Learning Earnings-Call Surprise for Stock Volatility Prediction: An Expectation-Residual Learning Framework. ***Work in Progress.***

CONFERENCE PUBLICATIONS

1. **Liu, Z.**, *Xu, Q., Fan, X., Ma, J. (2025). Company-Multi-Digital Scholar Collaborative Framework Driven by Resource-based View for Patent Co-Development. ***Pacific Asia Conference on Information Systems Proceedings (PACIS)***, July 5-9, Kuala Lumpur
2. ***Liu, Z.**, Zhu, P., Zeng, J., Shi, Z., & Ma, J. (2024). A Deep Patent Recommendation Method Based on Sequential Patents and Alliance Technical Influence Modeling. ***Pacific Asia Conference on Information Systems Proceedings (PACIS)***, July 1-5, Ho Chi Minh City
3. Xu, Q., ***Liu, Z.**, Ma, J. (2024) The Combination of Temporal Knowledge Graph and Retrieval-based Generation for Technology Supply and Demand Texts Matching. ***The 34th Workshop on Information Technologies and Systems (WITS)***, Dec 18-20, Bangkok, Thailand
4. **Liu, Z.**, *Deng, W., Zhu, P., Du, W., & Ma, J. (2023). A Dual-view Attention Neural Network for Assigning Industrial Categories to Academic Patents. ***Pacific Asia Conference on Information Systems Proceedings (PACIS)***, July 8-12, Nanchang, Jiangxi
5. **Liu, Z.**, *Deng, W., Chen, H., & Ma, J. (2023). Meet the technological needs of industrial clusters with privacy concerns: A patent recommendation method based on federated learning. ***Proceedings of the International Conference on Electronic Business (ICEB)***, 19-23 October, Chiayi, Taiwan

TEACHING EXPERIENCE

- Database Management Systems | Master Level | Instructor
  City University of Hong Kong
  2025/26 Sem B (Class Size: 498)
- eBusiness System Integration | Master Level | Instructor
  City University of Hong Kong
  2025/26 Sem B (Class Size: 302)
- **[New Course]** Generative AI for Business | Undergraduate Level | Instructor
  City University of Hong Kong
  2025/26 Sem A (Class Size: 31)
- Introduction to Business Programming in Python | Undergraduate Level | Instructor
  City University of Hong Kong
  2025/26 Sem A (Class Size: 172)
- Advanced Business Programming in Python | Undergraduate Level | Instructor

City University of Hong Kong
2025/26 Sem A (Class Size: 165)

- LLM with Prompt Engineering for Business | Master Level | Teaching Assistant
  City University of Hong Kong
  2024/25 Sem B (Class Size: 129)
- College of Business PhD Orientation | PhD Level | PhD Student Representative
  City University of Hong Kong
  2024
- Introduction of Large Language Models | Master & PhD Level | Guest Speaker
  Renmin University of China
  2023 (Class Size: 52)
- Database Management Systems | Master Level | Teaching Assistant
  City University of Hong Kong
  2024/25 Sem B (Class Size: 289)
  2024/25 Sem A (Class Size: 232)
  2023/24 Sem A (Class Size: 103)
  2022/23 Sem B (Class Size: 267)
  2021/22 Sem B (Class Size: 65)

AWARDS

- Outstanding Academic Performance Award for Research Degree Students, CityU 2024
- Institutional Research Tuition Scholarship, CityU 2022 & 2023 & 2024
- Best Reviewer of ICEB 2024
- Alibaba Cloud Certification - Large Language Model 2024
- Second & Third Class Scholarship, SYSU 2014 & 2016

ACADEMIC SERVICES

Conference Reviewer

- International Conference on Information Systems 2025
- Pacific Asia Conference on Information Systems 2025
- International Conference on Electronic Business (ICEB) 2024
- International Conference on Smart Finance (ICSF) 2023

SOFTWARE

- Software/Programing Skills: R; Stata; SQL server; Python; C; C++; Java; LLMs
- Language: English; Cantonese; Mandarin