

Post-doctoral Research Fellow

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Research Interests

Explainable Recommendation, Recommender Systems, Large Language Models, Natural Language Processing

Education

Ph.D. of Computer Science

Hong Kong Baptist University (HKBU)

Advisor: Prof. Li Chen, Mentors: Dr. Yongfeng Zhang & Dr. Ruihai Dong

Aug. 2017 - Nov. 2022

- Thesis: Natural Language Explanation for Recommendations and Beyond
- Studied recurrent neural networks (RNN), Transformer and large language models (LLM) for recommendation explanation generation, and published 3 papers at CIKM'20, ACL'21 and TOIS
- Major research outcome integrated into a small eco-system NLG4RS for recommender systems-based natural language generation that includes benchmark datasets, evaluation metrics and representative models, which has been widely adopted by researchers on this topic

B.Eng. of Computer Science & B.Sc. of Mathematics

Shenzhen University (SZU)

Advisor: Prof. Weike Pan

Sep. 2013 - Jun. 2017

Research on recommendation algorithms, especially collaborative filtering and matrix factorization

Experiences

Hong Kong Baptist University

Aug. 2022 – Present

Post-doctoral Research Fellow Advisor: Prof. Li Chen, Mentor: Dr. Yongfeng Zhang

Hong Kong, China

- Supported by Hong Kong Research Grants Council (RGC) and Huawei
- Research on LLM-based recommendation
- Published a survey at COLING'24, where how LLM would shape recommender systems from multi-stage filtering to single-stage filtering was discussed

Rutgers University

Feb. 2023 – Jun. 2023

Visiting Researcher Advisor: Dr. Yongfeng Zhang

New Brunswick, USA

• Published 1 paper about efficient LLM-based recommendation at CIKM'23

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Jun. 2019 – Aug. 2019

Intern Mentor: Dr. Peng Peng

Beijing, China

- Research on explaining the decision-making process of reinforcement learning (RL) agents
- Visualization of the replay data of the computer game StarCraft II

Suishou Technology

Aug. 2016 - Nov. 2016

Intern Advisor: Prof. Weike Pan

Shenzhen, China

- Utilized machine learning tools (such as Liblinear and XGBoost) to mine potential customers for personalized advertising
- Increased the company's sales of financial products by 4 times during an online test

Grants

Huawei Gift Fund Jun. 2024 – Jun. 2025

Incremental Learning of Large Language Models for Recommendation and Its Applications

HK\$330K

RGC Postdoctoral Fellowship Scheme (PDFS)

Aug. 2022 – Present

Causal Inference for Natural Language Processing in Recommender Systems

HK\$1.2M

Selected Publications (citation 970+, h-index 11)

 Large Language Models for Generative Recommendation: A Survey and Visionary Discussions (citation 90+)

Lei Li, Yongfeng Zhang, Dugang Liu, Li Chen

COLING'24: Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation, pages 10146-10159, Turin, Italy, May 20–25, 2024

• Prompt Distillation for Efficient LLM-based Recommendation (citation 110+)

Lei Li, Yongfeng Zhang, Li Chen

CIKM'23: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management, pages 1348-1357, Birmingham, United Kingdom, October 21–25, 2023

• Personalized Prompt Learning for Explainable Recommendation (citation 200+)

Lei Li, Yongfeng Zhang, Li Chen

TOIS: ACM Transactions on Information Systems, volume 41 (4), article 103, pages 1-26, March 2023

• On the Relationship between Explanation and Recommendation: Learning to Rank Explanations for Improved Performance

Lei Li, Yongfeng Zhang, Li Chen

TIST: ACM Transactions on Intelligent Systems and Technology, volume 14 (2), article 21, pages 1-24, February 2023

 Augmenting Legal Judgment Prediction with Contrastive Case Relations Dugang Liu, Weihao Du, Lei Li, Weike Pan, Zhong Ming

COLING'22: Proceedings of the 29th International Conference on Computational Linguistics, pages 2658-2667, Gyeongju, Republic of Korea, October 12–17, 2022

Improving Personalized Explanation Generation through Visualization
Shijie Geng, Zuohui Fu, Yingqiang Ge, Lei Li, Gerard de Melo, Yongfeng Zhang

ACL'22: Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics, pages 244-255, Dublin, Ireland, May 22–27, 2022

• Personalized Transformer for Explainable Recommendation (citation 180+)

Lei Li, Yongfeng Zhang, Li Chen

ACL'21 (oral): Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing, pages 4947-4957, Online, Thailand, August 1–6, 2021

• EXTRA: Explanation Ranking Datasets for Explainable Recommendation

Lei Li, Yongfeng Zhang, Li Chen

SIGIR'21: Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval, pages 2463-2469, Virtual Event, Canada, July 11–15, 2021

• Generate Neural Template Explanations for Recommendation (citation 160+)

Lei Li, Yongfeng Zhang, Li Chen

CIKM'20: Proceedings of the 29th ACM International Conference on Information & Knowledge Management, pages 755-764, Virtual Event, Ireland, October 19–23, 2020

Recent Trends in Recommender Systems Com	munity (RecSys 2024)	Nov. 2024
Professors' Insights Gained from Top Conferences		Huawei (Online)
Conversational Recommender Systems and Re	ecent Trends Driven by LLMs	Oct. 2024
Summer School at RecSys'24		Bari
Large Language Models for Generative Recomr	mendation	Apr. 2024
ConsumerBG AI Workshop Hong Kong	Huawei Hong Kor	ng Research Center
Large Language Models for Generative Recomm	mendation	Apr. 2024
Huawei Computing Youth Forum		Hangzhou
Large Language Models for Recommendation		Sep. 2023
Tutorial at RecSys'23		Singapore
Attracted hundreds of audience		
Generating Recommendation Explanations wit	th Transformer and Pre-trained Model	Mar. 2023
Data Science Lab	Korea Advanced Institute of Science & Technology (Online)	
Improving Personalized Explanation Generation	on through Visualization	Dec. 2022
Department of Computer Science	University of Lu	xembourg (Online)
How to Come up with Ideas and Do Research:	Experience Sharing	Oct. 2021
COMP7160 Research Methods in Computer Science	P7160 Research Methods in Computer Science Hong Kong Baptist Unive	

Academic Services

- **Guest Editor**: ACM Transactions on Recommender Systems (TORS) special issue on "Large Language Models for Recommender Systems", 2023 2025
- **Workshop Organizer**: "EARL: Workshop on Evaluating and Applying Recommendation Systems with Large Language Models". RecSys'24
- **Session Chair**: CIKM'23 (Recommendation 9), WWW'23 (Multi-behavior Recommendation & Self-supervised Learning)
- Program Committee Member: KDD'25, RecSys'24, WWW'23, RecSys'22
- · Invited Reviewer:
 - IEEE Transactions on Knowledge and Data Engineering (TKDE), 2023, 2024
 - ACM Transactions on Information Systems (TOIS), 2020, 2022, 2024, 2025
 - ACM Transactions on Recommender Systems (TORS), 2023, 2024
 - ACM Transactions on Intelligent Systems and Technology (TIST), 2025
 - IEEE Transactions on Big Data (TBD), 2022
 - International Journal of Human-Computer Studies (IJHCS), 2024
 - ACM Transactions on Interactive Intelligent Systems (TiiS), 2021
 - Neurocomputing (NEUCOM), 2018, 2024
 - Knowledge-based Systems (KNOSYS), 2018
 - Journal of Intelligent Information Systems (JIIS), 2021
- External Reviewer: CIKM'24, SIGIR'21, WWW'21, WWW'19

RPg Performance Award	HKBU	Sep. 2021
Research Postgraduate Studentship	HKBU	Aug. 2017 – Aug. 2021
Research Excellence Award	PG Day, HKBU	Jun. 2021
Best Presentation Award	PG Day, HKBU	Jun. 2020
Excellent Teaching Assistant Performance Award	HKBU	Jun. 2018, 2019, 2020
Teaching Assistant Performance Award	HKBU	Feb. 2020
Outstanding Graduate	SZU	Jun. 2017

Technical Skills

Programming Language Python, Java, Matlab, C++ (ordered by proficiency)

Platform and Tool PyTorch, TensorFlow, Scikit-learn, MongoDB, Django, XGBoost, Liblinear

Languages

Mandarin Native

English Working proficiency

Cantonese Elementary

Last update: March 18, 2025