

## Research Interests

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

## 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, and that has been widely adopted

### 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

### Shenzhen University

Aug. 2025 – Present

Incoming Assistant Professor Collaborators: [Dr. Yongfeng Zhang](#) & [Dr. Dugang Liu](#)

Shenzhen, China

- Research on trustworthy issues of LLM-based recommender systems

### Hong Kong Baptist University

Aug. 2022 – Jul. 2025

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

### 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

### 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

### HKSTP Ideation Programme

Sep. 2024 – Present

*Palm (an App that provides the elderly with customized recommendations of finger exercises)*

HK\$50K

### RGC Postdoctoral Fellowship Scheme (PDFS)

Aug. 2022 – Jul. 2025

*Causal Inference for Natural Language Processing in Recommender Systems*

HK\$1.24M

**Selected Publications (citation 1000+, h-index 11)**

- Large Language Models for Generative Recommendation: A Survey and Visionary Discussions (**citation 100+**)  
**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 140+**)  
**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 220+**)  
**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 170+**)  
**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

**Talks****Recent Trends in Recommender Systems Community (RecSys 2024)**

Professors' Insights Gained from Top Conferences

Nov. 2024

Huawei (Online)

<b>Conversational Recommender Systems and Recent Trends Driven by LLMs</b>	Oct. 2024
Summer School at RecSys'24	Bari
<b>Large Language Models for Generative Recommendation</b>	Apr. 2024
ConsumerBG AI Workshop Hong Kong	Huawei Hong Kong Research Center
<b>Large Language Models for Generative Recommendation</b>	Apr. 2024
Huawei Computing Youth Forum	Hangzhou
<b>Large Language Models for Recommendation</b>	Sep. 2023
Tutorial at RecSys'23	Singapore
Attracted hundreds of audience	
<b>Generating Recommendation Explanations with Transformer and Pre-trained Model</b>	Mar. 2023
Data Science Lab	Korea Advanced Institute of Science & Technology (Online)
<b>Improving Personalized Explanation Generation through Visualization</b>	Dec. 2022
Department of Computer Science	University of Luxembourg (Online)
<b>How to Come up with Ideas and Do Research: Experience Sharing</b>	Oct. 2021
COMP7160 Research Methods in Computer Science	Hong Kong Baptist University

### Academic Services

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- **Guest Editor:** ACM Transactions on Recommender Systems (TORS) special issue on “Large Language Models for Recommender Systems”, 2023 – 2025
- **Workshop Organizer:**
  - “EARL: The 2nd Workshop on Evaluating and Applying Recommender Systems with Large Language Models”. RecSys'25
  - “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

## Awards & Honors

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

## Technical Skills

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<b>Programming Language</b>	Python, Java, Matlab, C++ (ordered by proficiency)
<b>Platform and Tool</b>	PyTorch, TensorFlow, Scikit-learn, MongoDB, Django, XGBoost, Liblinear

## Languages

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<b>Mandarin</b>	Native
<b>English</b>	Working proficiency
<b>Cantonese</b>	Elementary

Last update: May 8, 2025