

WEIXIN CHEN

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EDUCATION

Hong Kong Baptist University (HKBU), Hong Kong, China <i>Ph.D. Student in Computer Science</i> (Advisor: Prof. Li Chen)	09/2022 – 08/2026 (Expected)
Rutgers University, New Jersey, United States <i>Visiting Ph.D. Student, Wise Lab</i> (Advisor: Prof. Yongfeng Zhang)	08/2025 – 02/2026
Shenzhen University (SZU), Shenzhen, China <i>B.Eng. in IoT Engineering</i> (Advisor: Prof. Weike Pan)	09/2016 – 07/2020

RESEARCH INTERESTS

Agentic AI · Trustworthy AI · Large Language Models · User Modeling · Recommender Systems

PUBLICATIONS

(* indicates equal contribution)

Agentic AI & Memory-Augmented Systems

- [1] **[Under Review]** MemRec: Collaborative Memory-Augmented Agentic Recommender System
Weixin Chen, Yuhan Zhao, Jingyuan Huang, Zihe Ye, Mingxuan Ju, Tong Zhao, Neil Shah, Li Chen, Yongfeng Zhang
Work done during visiting at **Rutgers University**, in collaboration with **SNAP Research**.
- [2] **[EACL '26]** H-Mem: Hybrid Multi-Dimensional Memory Management for Long-Context Conversational Agents
Zihe Ye, Jingyuan Huang, Weixin Chen, and Yongfeng Zhang
In Proceedings of the 19th Conference of the European Chapter of the ACL (**EACL '26**).

Trustworthy & Fair Recommender Systems

- [3] **[RecSys '25]** Leave No One Behind: Fairness-Aware Cross-Domain Recommender Systems for Non-Overlapping Users
Weixin Chen*, Yuhan Zhao*, Li Chen, and Weike Pan
In Proceedings of the 19th ACM Conference on Recommender Systems (**RecSys '25**) (**Spotlight Oral**).
- [4] **[TOIS '25]** Causality-Inspired Fair Representation Learning for Multimodal Recommendation
Weixin Chen, Li Chen, Yongxin Ni, and Yuhan Zhao
ACM Transactions on Information Systems (**TOIS**), 43(6), Article 153.
- [5] **[TORS '25]** Investigating User-Side Fairness in Outcome and Process for Multi-Type Sensitive Attributes in RecSys
Weixin Chen, Li Chen, and Yuhan Zhao
ACM Transactions on Recommender Systems (**TORS**), 4(2), Article 25.
- [6] **[WWW '26]** The Double-Edged Sword of Knowledge Transfer: Diagnosing and Curing Fairness Pathologies in CDR
Yuhan Zhao*, Weixin Chen*, Li Chen, and Weike Pan
In Proceedings of The Web Conference 2026 (**WWW '26**).
- [7] **[HCRS@WWW '26]** Post-Training Fairness Control: A Single-Train Framework for Dynamic Fairness in RecSys
Weixin Chen, Yuhan Zhao, and Li Chen
In Companion Proceedings of The Web Conference 2026 (**HCRS@WWW '26**) (**Oral**).
- [8] **[Under Review]** SC-VUG: Towards Fair Cross-Domain Recommendation for Non-Overlapping Users via Sparsity-Calibrated Virtual User Generation
Yuhan Zhao*, Weixin Chen*, Li Chen, Weike Pan
Invited Submission to (**TORS Special Issue on RecSys'25 Highlights**).
- [9] **[Under Review]** Breaking the Cocoon: A Model-Agnostic Push-Pull Strategy for Non-Overlapping Users in CDR
Yuhan Zhao, Weixin Chen, Shu Chen, Li Chen.
- [10] **[Under Review]** DivCDSR: A Model-Agnostic Framework for Diverse Cross-Domain Sequential Recommendation
Shu Chen, Yuhan Zhao, Weixin Chen, Weike Pan, Li Chen.

General & Sequential Recommender Systems

- [11] **[RecSys '22]** Global and Personalized Graphs for Heterogeneous Sequential Recommendation by Learning Behavior Transitions and User Intentions
Weixin Chen, Mingkai He, Yongxin Ni, Weike Pan, Li Chen, and Zhong Ming
In Proceedings of the 16th ACM Conference on Recommender Systems (**RecSys '22**) (**Oral**).
- [12] **[TIST '26]** Matryoshka Representation Learning for Rec. with Layer- and Hardness-Adaptive Negative Sampling
Riwei Lai, Li Chen, Weixin Chen, and Rui Chen
ACM Transactions on Intelligent Systems and Technology (**TIST**).
- [13] **[Under Review]** Revisiting Graph Contrastive Learning for Recommendation: A Data Generation Perspective
Yuhan Zhao, Rui Chen, Li Chen, Weixin Chen, Qilong Han, and Songhan Tao.
- [14] **[Under Review]** Different Strokes for Different Folks: Personalizing User Roles in Graph Collaborative Filtering
Yuhan Zhao, Li Chen, Li Kang, Weixin Chen, and Rui Chen.

RESEARCH EXPERIENCE

Deep Learning Group, Ping An Insurance Co. Ltd., Shenzhen, China

07/2020 – 10/2020

Researcher Intern

- Addressed the "Posterior Collapse" problem in Variational Autoencoders (reproduced Skip-VAE, CNN-VAE).
- Preprocessed large-scale datasets for chatbot model training (GPT-2 based).

HONORS AND AWARDS

Scholarships & Academic Honors

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| • Research Performance Award (HKBU) | 2025 – 2026 |
| • Star of SZU (Highest Honor in Major, Top 1%) | 2016 – 2017 |
| • Academic Performance Award (Top 1% $\times$ 1, Top 4% $\times$ 2) | 2016 – 2019 |

Teaching & Service Awards

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| • Excellent Teaching Assistant Performance Award (HKBU) | 2023 – 2024 |
| • Teaching Assistant Performance Award (HKBU, 3 times) | 2022 – 2025 |
| • Outstanding Contribution of Student Lecturer (SZU, 2 times) | 2017 – 2018 |

PROFESSIONAL ACTIVITIES

Conference Reviewer: SIGIR (2026), ICWSM (2026), RecSys (2025), WWW (2023)

Journal Reviewer: TOIS (2025), TKDE (2025), TORS (2025), TIIS (2023), JIIS (2023)

TEACHING EXPERIENCE

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|--|--------------------|
| • Data Security and Privacy (PG & UG), HKBU | Spring 2025 |
| • Design and Analysis of Algorithms (UG), HKBU | Fall 2023 & 2024 |
| • Recommender Systems (PG & UG), HKBU | Spring 2023 & 2024 |
| • Database Systems (UG), SZU | Fall 2018 |

SKILLS & LANGUAGES

Languages: English (Fluent), Mandarin (Native), Cantonese (Fluent)