WEIXIN CHEN

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EDUCATION

Hong Kong Baptist University (HKBU), Hong Kong, China   09/2022 – 08/2026 (Expected)
Ph.D. Student in Computer Science (Advisor: Prof. Li Chen)

Rutgers University, New Jersey, United States   08/2025 – 02/2026
Visiting Ph.D. Student, Wise Lab (Advisor: Prof. Yongfeng Zhang)

Shenzhen University (SZU), Shenzhen, China   09/2016 – 07/2020
B.Eng. in IoT Engineering (Advisor: Prof. Weike Pan)

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
<u>Weixin Chen</u>, Yuhan Zhao, Jingyuan Huang, Zihe Ye, Mingxuan Ju, Tong Zhao, Neil Shah, Li Chen, Yongfeng Zhang.
Under Review at **(ACL '26)** (Ratings: 4, 4, 3), in collaboration with **Rutgers** and **SNAP Research**

[2] **[EACL '26]** H-Mem: Hybrid Multi-Dimensional Memory Management for Long-Context Conversational Agents
Zihe Ye, Jingyuan Huang, <u>Weixin Chen</u>, 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
<u>Weixin Chen</u>*, 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
<u>Weixin Chen</u>, 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
<u>Weixin Chen</u>, 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*, <u>Weixin Chen</u>*, 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
<u>Weixin Chen</u>, 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*, <u>Weixin Chen</u>*, 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, <u>Weixin Chen</u>, Shu Chen, Li Chen.

[10] **[Under Review]** DivCDSR: A Model-Agnostic Framework for Diverse Cross-Domain Sequential Recommendation
Shu Chen, Yuhan Zhao, <u>Weixin Chen</u>, 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
<u>Weixin Chen</u>, 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, <u>Weixin Chen</u>, 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, <u>Weixin Chen</u>, 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, <u>Weixin Chen</u>, 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

- 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

- 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

- 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)