Yingyi Zhang

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Education Background

City University of Hong Kong (CityU) *Hong Kong*
Joint PhD student in Data Science, supervised by Prof. Xiangyu Zhao   Sep. 2024 - 2026 (Except)

Dalian University of Technology (DUT) *Dalian, China*
PhD student in Management Science and Engineering, supervised by Prof. Xianneng Li   Sep. 2020 - 2026 (Except)

Dalian University of Technology (DUT) *Dalian, China*
BS in Information Management and Information System   Sep. 2016 - Jun. 2020

Publications

[1] **Yingyi Zhang**[†], Pengyue Jia[†], Xianneng Li*, Xiangyu Zhao*, et al. 2025. Personalize Before Retrieve: LLM-based Personalized Query Expansion for User-Centric Retrieval. *Accepted by AAAI 26 as an oral paper*

[2] **Yingyi Zhang**[†], Pengyue Jia[†], Xianneng Li*, Xiangyu Zhao*, et al. 2025. LSRP: A Leader–Subordinate Retrieval Framework for Privacy-Preserving Cloud–Device Collaboration. *In Proceedings of the 31st ACM SIGKDD Conference on Knowledge Discovery and Data Mining V.2, August 3-7, 2025, Toronto, ON, Canada. ACM, New York, NY, USA,* [Link]

[3] ZHANG Ying-yi, LI Xian-neng*, GUO Yan-hong, et al. 2024. Deep review-based recommendation from the perspective of consumer decision journey[J]. *Journal of Management Sciences in China*, (Top 1 Chinese journal in Management and Science) [Link]

[4] **Yingyi Zhang**, Xianneng Li*, Yahe Yu, et al. 2023. Meta-Generator Enhanced Multi-Domain Recommendation.*In Companion Proceedings of the ACM Web Conference 2023 (WWW'23 Companion - industry truck), April 30-May 4, 2023, Austin, TX, USA. ACM, New York, NY, USA,*[Link]

[5] **Yingyi Zhang**[†], Zhipeng Li[†], Zhewei Zhi[†], Xianneng Li*. Enhancing User Behavior Alignment by Input-Level Model Cooperation and Model-Level Parameter Optimization. *Amazon KDD Cup 2024 Workshop, August 25–29, 2024, Barcelona, Spain,* [Link]

[6] **Yingyi Zhang**, Xianneng Li*, Yahe Yu, et al. Entire Cost Enhanced Multi-Task Model for Online-to-Offline Conversion Rate Prediction. *DL4SR'22: Workshop on Deep Learning for Search and Recommendation, co-located with the 31st ACM International Conference on Information and Knowledge Management (CIKM), October 17-21, 2022, Atlanta, USA,* [Link]

[7] Zhewei Zhi[†], **Yingyi Zhang**[†], Xianneng Li*, et al. 2025. Compress-then-Rank: Faster and Better Listwise Reranking with Large Language Models via Ranking-Aware Passage Compression *Accepted by AAAI 26 as an poster paper*

[8] Yue Que, **Yingyi Zhang**, Xiangyu Zhao*, and Chen Ma. 2025. Causality-aware Graph Aggregation Weight Estimator for Popularity Debiasing in Top-K Recommendation. *In Proceedings of the 34th ACM International Conference on Information and Knowledge Management (CIKM '25). Association for Computing Machinery, New York, NY, USA, 2471–2481.* [Link]

[9] Zhipeng Li[†], Binglin Wu[†], **Yingyi Zhang**[†], Xianneng Li*, et al. CuSMer: Multimodal Intent Recognition in Customer Service via Data Augment and LLM Merge. *Companion Proceedings of the ACM Web Conference 2025, April 28-May 2, 2025, Sydney, NSW, Australia.*

[10] Zerong Lan, **Yingyi Zhang** and Xianneng Li*, M3REC: A Meta-based Multi-scenario Multi-task Recommendation Framework, *In Proceedings of the 17th ACM Conference on Recommender Systems (RecSys '23)*. 18th-22nd September 2023, Singapore. [Link]

[11] Yudi Xiao, **Yingyi Zhang** and Xianneng Li*, Modeling Variational Anchoring Effect for Recommender Systems,*In the eleventh CNAIS Annual Conference*. 20th-22nd October 2023, Hangzhou. (Commended Paper Award, best 3 papers among 309 submissions.)

Research Projects

Research on Personalized Retrieval Augment Generation *Shenzhen*
Projects entrusted by enterprises and institutions with Huawei, PI (Xiangyu Zhao)   Jan. 2025 - Now
- Cloud-Device SLM LLM Collaboration
- Personalized Pre-Retrieval

Research on Cross Business Domain Complementary and Fusion Methods from Perspective of Consumer Behavior Understanding *Beijing*
Projects entrusted by enterprises and institutions with Meituan, PI (Xianneng Li)   Sep. 2021 - July. 2022
- Consumer Behavior and Intention Modeling
- Milti-Task and Multi-Domain Recommendation

Research on Diversified Recommendation in O2O E-Commerce: From the Perspective of Consumer Uncertainty *Dalian*
National Natural Science Foundation of China of Grant 72071029, PI (Xianneng Li)   Jan. 2020 - Sep. 2024
- Review-based Recommendation Algorithm
- Milti-Task and Multi-Domain Recommendation

Awards and Honors

Apr. 2025	**Bronze medal**: In WWW Competition 2025: Multimodal Dialogue System Intent Recognition Challenge	*Sydney*
Aug. 2024	**Second Prize and Student Award**: KDD Cup 2024: Multi-Task Online Challenge for LLMs, User Behavior Alignment Track	*Barcelona*
Sep. 2023	**Outstanding Graduate Student**: Dalian University of Technology	*Dalian*
Oct. 2023	**Commended Paper**: The eleventh CNAIS Annual Conference.	*Hangzhou*
Oct. 2021	**Best Paper**: The First Academic Conference on Data Intelligence and Management	*Chengdu*

Competition

WWW Competition 2025: Multimodal Dialogue System Intent Recognition Challenge *Online*

Field of E-commerce Customer Service and LLM Nov. 2024 - Jan. 2025

- 1st place in the final round, and bronze medal rated by the experts
- Multimodal Intent Recognition in Customer Service via Data Augment and LLM Merge

KDD Cup 2024: Multi-Task Online Challenge for LLMs *Online*

Field of Recommender Systems and LLM May. 2024 - Jul. 2024

- 2nd place in the User Behavior Alignment Track with 1st is Team NVIDIA
- Enhancing User Behavior Alignment by Input-Level Model Cooperation and Model-Level Parameter Optimization

Academic Conference

KDD'24 *Barcelona, Spain*

Presentation / Attendance Aug. 2024

- Presentation: "Enhancing User Behavior Alignment by Input-Level Model Cooperation and Model-Level Parameter Optimization."
- Conference Name: The 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD'24)

RecSys'23 *Singapore*

Presentation / Attendance Sep. 2023

- Presentation: "M3REC: A Meta-based Multi-scenario Multi-task Recommendation Framework"
- Conference Name: 17th ACM Conference on Recommender Systems (RecSys'23)

WWW'23 *Virtual*

Presentation / Attendance May. 2023

- Presentation: "Meta-Generator Enhanced Multi-Domain Recommendation"
- Conference Name: the ACM Web Conference 2023 (WWW'23)

CIKM'22 *Virtual*

Presentation / Attendance Oct. 2022

- Presentation: "Entire Cost Enhanced Multi-Task Model for Online-to-Offline Conversion Rate Prediction"
- Conference Name: DL4SR'22: Workshop on Deep Learning for Search and Recommendation, co-located with the 31st ACM International Conference on Information and Knowledge Management (CIKM)

Volunteering

Dalian University of Technology Overseas Volunteer Program *Portland, OR, USA*

International Volunteers Exchange & Enrichment Program (USA) Jan. 2018 - Feb. 2018

- Assisted community recycling drives.
- Supported and taught children's classes.
- Collected web data for social projects.

Supervisors

- Prof. Xianneng Li
  Ph.D, Professor, at School of Economics and Management, Dalian University of Technology (Class A Double First Class University), Dalian, China
  ⮌ Homepage   ✉ xianneng@dlut.edu.cn
- Prof. Xiangyu Zhao
  Ph.D, Assistant Professor, at School of Data Science, City University of Hong Kong, Hong Kong, China
  ⮌ Homepage   ✉ xy.zhao@cityu.edu.hk