Xiaoyu Zhang

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EDUCATION

School of Computer Science and Technology, Shandong University

Qingdao, China

Master of Electronic Information in Computer Technique

Sep 2021 — Jun 2024

• GPA: 88.25/100.

• Key Courses: Machine learning (94); Social media analysis (96); Advanced algorithm (88).

School of Computer Science and Technology, Shandong University

Qingdao, China

Bachelor of Engineering in Computer Science and Technology

Sep 2017 — Jun 2021

- GPA: 89.87/100 (Ranking: 14/157).
- Key Courses: Information retrieval (95); Artificial intelligence (99); Human-computer interaction (89).

PUBLICATIONS

- [1] Xiaoyu Zhang, Ruobing Xie, Yougang Lyu, Xin Xin, et al., "Towards empathetic conversational recommender systems," in *Proceedings of the RecSys, Bari, Italy*, 2024 (Full track, **Best Full Paper Award**). DOI: 10.1145/3640457.3688133.
- [2] Xiaoyu Zhang, Xin Xin, Dongdong Li, Wenxuan Liu, et al., "Variational reasoning over incomplete knowledge graphs for conversational recommendation," in Proceedings of the WSDM, Singapore, 2023 (Full track). DOI: 10.1145/3539597.3570426.
- [3] Xiaoyu Zhang, Dongdong Li, Pengjie Ren, Zhumin Chen, et al., "Memory networks based knowledge aware medical dialogue generation," Journal of Computer Research and Development, vol. 59, no. 12, pp. 2889–2900, 2022. DOI: 10.7544/issn1000-1239.20210851.
- [4] Yougang Lyu, **Xiaoyu Zhang**, Zhaochun Ren, and Maarten de Rijke, "Cognitive biases in large language models for news recommendation," in *Proceedings of the ROEGEN@RecSys, Bari, Italy*, 2024. DOI: 10.48550/arXiv.2410.02897.
- [5] Yougang Lyu, **Xiaoyu Zhang**, Lingyong Yan, Maarten de Rijke, et al., "Deepshop: A benchmark for deep research shopping agents," submitted to NeurIPS 2025 (Datasets & Benchmarks Track) (Under Review). DOI: 10.48550/arXiv.2506.02839.

RESEARCH EXPERIENCES

Leiden Institute of Advanced Computer Science, Leiden University. Research assistant. Supervisors: Dr. Zhaochun Ren.

Leiden, Netherlands Jun 2024 — Aug 2024

- Contribution: Discussion and writing.
- Explore cognitive biases in large language model(LLM)-based news recommender systems(RSs) and discuss strategies to mitigate these effects.[4].

Weixin Group, Tencent Inc.

Beijing, China

Internship, Supervisors: Dr. Zhaochun Ren, Ruobing Xie.

Jun 2023 — Feb 2024

- Contribution: Conceptualization, methodology, data collection, experiments, and writing.
- Propose a novel empathetic Conversational Recommender System(CRS) using LLMs to align with user needs, improve recommendation accuracy, and enhance user satisfaction[1].

School of Computer Science and Technology, Shandong University.

Qingdao, China

Project Participant, Supervisors: Dr. Zhaochun Ren, Dr. Xin Xin.

Sep 2021 — Dec 2022

- Contribution: Conceptualization, methodology, experiments, and writing.
- Propose a variational reasoning approach to enhance the original incomplete and noisy knowledge graphs (KGs) involved in CRSs and perform dynamic knowledge reasoning conditioned on dialogue. [2].

NLP and KG Department, Baidu Inc.

Beijing, China

Internships, Supervisor: Dr. Wei Li.

May 2022 — Feb 2023

- Construct multimodal news data and train a subjective-objective news evaluation metric mapping model.
- Develop an efficient news text-cleaning strategy for digital hosts on Baidu's social media platform. The strategy achieved a 98% pass rate in human evaluation.

School of Computer Science and Technology, Shandong University.

Qingdao, China

Research Assistant, Supervisors: Dr. Zhaochun Ren.

Sep 2020 — Aug 2021

- Contribution: Conceptualization, methodology, experiments, and writing.
- Propose a medical dialogue generation method using knowledge-aware memory networks to improve response quality on diversity and correctness.[3].

SCHOLARSHIPS & AWARDS

•	Best Full Paper	Award.	The 18th ACM	Conference on	Recommender	Systems 2024.	Oct 2024

• The Rhino-Bird Research Elite, Tencent Inc.

Aug 2024

• Dean's scholarship (10,000 RMB), Shandong University. Dec 2023

• First-class academic scholarship (8,000 RMB, performance top 10%), Shandong University. Dec 2023

• Outstanding postgraduate, Shandong University.

Nov 2023

• First-class academic scholarship (8,000 RMB, performance top 1%), Shandong University. Dec 2020

• Honorable Mention of the Mathematical Contest in Modeling.

May 2023

TALKS

Invited Talks:

• University of Glasgow, Online.

Jan 2025

Title: Enhancing CRSs: Integrating Knowledge, Context, and Emotions.

• ByteDance Inc., Online.

Nov 2024

Title: User-centric Conversational Recommender Systems.

Conference Oral Presentations:

• RecSys 2024, Bari, Italy.

Oct 2023

Title: Towards Empathetic Conversational Recommender Systems.

• WSDM 2023, Singapore.

Feb 2023

Title: Variational Reasoning over Incomplete Knowledge Graphs for Conversational Recommendation.

ACADEMIC SERVICE

- Journal Reviewers: TKDE 2025/2024, IPM 2023.
- PC Members: SIGIR 2025, CCIR 2024.

TEACHING EXPERIENCES

School of Computer Science and Technology, Shandong University

Qingdao, China

Teaching Assistant, Course: Introduction to Data Science(Spring).

2021 - 2023

• Responsibility: Design laboratory experiments, teach all laboratory sections (Over 30 undergraduate students annually), create exam questions, grade lab reports and exams.

SKILLS

- **Programm skills**: Python (Top 4.3% in Certified Software Professional, China Computer Federation), LATEX, PyTorch.
- Languages: Chinese[native], English[IELTS 7.0 (Listening: 7.5, Reading: 7.0, Writing: 7.0, Speaking: 6.0)].