


# Xiaoyu Zhang

 Homepage

 Google Scholar

 Email: [tinyoctopus1999@gmail.com](mailto:tinyoctopus1999@gmail.com)

## 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 (CORE Ranking A)*, Bari, Italy, 2024 (**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 (CORE Ranking A)*, Singapore, 2023. 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 (China Core CS Journal, CCF Tier-A, EI Indexed)*, vol. 59, no. 12, 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 (CORE Ranking A)*, 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 (CORE Ranking A\*)* (Under Review). DOI: 10.48550/arXiv.2506.02839.

## RESEARCH EXPERIENCES

**Leiden Institute of Advanced Computer Science, Leiden University.**

Leiden, Netherlands

*Research assistant, Supervisors: Dr. Zhaochun Ren.*

Jun 2024 — Present

- Contribution: Discussion, experiments, and writing.
- Work on two projects about LLM-based recommendation: one explores cognitive biases in LLM-based news recommender systems and strategies to mitigate them[4], and the other examines the performance of LLM-based web agents in complex and realistic online shopping environments[5].

**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.

*Internships, Supervisor: Dr. Wei Li.*

Beijing, China

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.

*Research Assistant, Supervisors: Dr. Zhaochun Ren.*

Qingdao, China

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)].