

# Changshuo Zhang

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Research Interests: Recommender Systems, Reinforcement Learning



## EDUCATION

**Renmin University of China**

*Artificial Intelligence*

Master

2023.09-2026.07

- **Supervisor:** Assistant Prof. Xiao Zhang and Prof. Jun Xu

**University of Electronic and Technology of China**

*Computer Science and Technology*

Bachelor

2019.09-2023.07

- **GPA:** 3.89/4.0

## PUBLICATIONS

- **Changshuo Zhang\***, Sirui Chen\*, Xiao Zhang, Sunhao Dai, Weijie Yu, Jun Xu. Reinforcing Long-Term Performance in Recommender Systems with User-Oriented Exploration Policy. **ACM SIGIR 2024**
- Sirui Chen\*, Yuan Wang\*, Zijing Wen, Zhiyu Li, **Changshuo Zhang**, Xiao Zhang, Quan Lin, Cheng Zhu, Jun Xu. Controllable Multi-Objective Re-ranking with Policy Hypernetworks. **ACM SIGKDD 2023**

## RESEARCH

**Controllable Multi-Objective Re-ranking with Policy Hypernetworks**

*Supervised by Prof. Jun Xu and Assistant Prof. Xiao Zhang*

08/2022 – 12/2022

- Introduced an innovative problem addressing real-time preference adjustments for multi-objective modeling and developed a solution employing hypernetworks: the controllable multi-objective re-ranking framework. Source code: <https://github.com/lyingCS/Controllable-Multi-Objective-Reranking>.

**Reinforcing Long-Term Performance in Recommender Systems with User-Oriented Exploration Policy**

*Supervised by Assistant Prof. Xiao Zhang and Prof. Jun Xu*

09/2023 - 01/2024

- Introduced User-Oriented Exploration Policy (UOEP), a novel approach that enables fine-grained exploration among user groups to solve the challenge of difficult exploration of reinforcement learning strategies due to different user behavior patterns. Source code: <https://github.com/lyingCS/UOEP>.

## HONORS & AWARDS

- **National Scholarship (2021-2022)**
- **Blue Bridge Cup Competition** *National First Prize*
- **China Undergraduate Mathematical Contest in Modeling** *National Second Prize*
- **American Undergraduate Mathematical Contest in Modeling** *Meritorious Winner*
- **CCF Certified Software Professional** *350 points*
- **China Collegiate Algorithm Design & Programming Challenge Contest** *Silver Medal*

## SKILLS

- **programming language:** C, C++, Matlab, Python, Java, SQL.
- **algorithm:** LeetCode website **TOP 3.2%**, problem solving **800+**.
- **other skills:** Git, Vim, Latex, Linux, Qt, etc.