

Changshuo Zhang

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EDUCATION

Renmin University of China (GPA: 3.43/4.0)

Master

Artificial Intelligence

2023.09-2026.07

University of Electronic and Technology of China (GPA: 3.89/4.0)

Bachelor

Computer Science and Technology

2019.09-2023.07

PUBLICATIONS

- 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**
- **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**

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 cutting-edge solution employing hypernetworks: the adaptable multi-objective re-ranking framework.
- Devised a novel re-ranking model based on the Actor-Evaluator framework, effectively integrating all four primary types of business-oriented tasks, and assessed on online A/B testing manner.
- 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.
- Experiments on public datasets demonstrate the effectiveness of UOEP in terms of long-term benefits of the recommendation system and also verify the improvement for low-activity users and increased fairness among users.
- 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 2.67%**, problem solving **750+**, CSP certification **350** points (**TOP 1.93%**).
- **other skills:** Git, Vim, Latex, Linux, Qt, etc.