

# Xu Huang

PH.D. STUDENT · SCHOOL OF COMPUTER SCIENCE

University of Science and Technology of China, Hefei, Anhui, China

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## Introduction

**Brief Introduction:** Xu Huang (黄旭, pronounced as /ɥ̥ʏ/ /xwanʔ/, English version /tʃʊ/ /'hwæn/) is currently a third-year Ph.D. student under the advisory of Prof. Defu Lian in School of Computer Science and Technology, University of Science and Technology of China (USTC).

**Research Interest:** Large Language Models, Data Mining, Information Retrieval, Recommendation System.

## Education

**School of Computer Science, University of Science and Technology of China**

Hefei, Anhui, China

PH.D. PROGRAM

2023.09 - 2026.07(Expected)

- Advisor: Prof. Defu Lian

**School of Computer Science, University of Science and Technology of China**

Hefei, Anhui, China

## MASTER PROGRAM

2021.09 - 2023.07

- Advisor: Prof. Defu Lian

**School of Computer Science, University of Science and Technology of China**

Hefei, Anhui, China

BACHELOR DEGREE

2017.09 - 2021.07

## Awards

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| 2023      | <b>National Scholarship</b> , People's Republic of China Central People's Government         |
| 2021-2023 | <b>USTC Academic Scholarship</b> , University of Science and Technology of China             |
| 2018      | <b>National Endeavor Fellowship</b> , Department of Education of Anhui Province              |
| 2017-2020 | <b>USTC Excellent Student Prize</b> , University of Science and Technology of China          |
| 2017      | <b>Shizhang Bei Talent class Scholarship</b> , University of Science and Technology of China |

## Internships

## Huawei Noah's Ark Lab

Shenzhen, China

## RESEARCH & ENGINEERING PROGRAM

2023.11 - Now

- Advisor: Dr. Weiwen Liu
- Practise: Research on LLM agents and engineering on multi-task recommendation.

- Advisor: Dr. Jianxun Lian
- Practise: Research on multi-objective recommendations and recommendation agent.

## Projects

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*RecAI*. A project aims to bridge this gap by investigating various strategies to integrate LLMs into recommender systems. The website of RecAI is <https://github.com/microsoft/RecAI>. I am one of the main contributors of the project, especially on the InteRecAgent.

*UniRec*. An easy-to-use, lightweight, and scalable implementation of recommender systems. The website of UniRec is <https://github.com/microsoft/UniRec>. I am one of the main contributors of the project.

*RecStudio*. A modularized and unified library for recommendation system based on PyTorch. The website of RecStudio is <http://recstudio.org.cn>. I am one of the main contributors and the manager of the project.

## Publications

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### PUBLISHED

Jin Chen, Zheng Liu, **Xu Huang**, Chenwang Wu, Qi Liu, Gangwei Jiang, Yuanhao Pu, Yuxuan Lei, Xiaolong Chen, Xingmei Wang, Defu Lian, Enhong Chen. (2024). When large language models meet personalization: Perspectives of challenges and opportunities. *World Wide Web* 27, 42 (2024).

Yuxuan Lei, Jianxun Lian, Jing Yao, **Xu Huang**, Defu Lian, Xing Xie. (2024). RecExplainer: Aligning Large Language Models for Recommendation Model Interpretability. In *Proceedings of the ACM SIGKDD Conference 2024*.

Yuanhao Pu, Xiaolong Chen, **Xu Huang**, Jin Chen, Defu Lian, Enhong Chen. (2024). Learning-Efficient Yet Generalizable Collaborative Filtering for Item Recommendation. In *Proceedings of the 41st International Conference on Machine Learning, Vienna, Austria*.

Jianxun Lian, Yuxuan Lei, **Xu Huang**, Jing Yao, Wei Xu, Xing Xie. (2024). RecAI: Leveraging Large Language Models for Next-Generation Recommender Systems. In *Proceedings of the ACM Web Conference 2024* (pp. 1031–1034).

**Xu Huang**, Jianxun Lian, Hao Wang, Defu Lian & Xing Xie. (2024). A Data-Centric Multi-Objective Learning Framework for Responsible Recommendation Systems. In *Proceedings of the ACM Web Conference 2024* (pp. 3129–3138).

Defu Lian, **Xu Huang**, Xiaolong Chen, Jin Chen, Xingmei Wang, Yankai Wang, Haoran Jin, Rui Fan, Zheng Liu, Le Wu & Enhong Chen. (2023). RecStudio: Towards a Highly-Modularized Recommender System. In *Proceedings of the ACM SIGIR Conference 2023* (pp. 2890-2900).

**Xu Huang**, Defu Lian, Jin Chen, Zheng Liu & Enhong Chen. (2023). Cooperative Retriever and Ranker in Deep Recommenders. In *Proceedings of the ACM Web Conference 2023* (pp. 1150-1161).

Jin Chen, Defu Lian, Binbin Jin, **Xu Huang**, Kai Zheng & Enhong Chen. (2022). Fast variational autoencoder with inverted multi-index for collaborative filtering. In *Proceedings of the ACM Web Conference 2022* (pp. 1944-1954).

### PREPRINT

Xingmei Wang, Weiwen Liu, Xiaolong Chen, Qi Liu, **Xu Huang**, Defu Lian, Xiangyang Li, Yasheng Wang, Zhenhua Dong, Ruiming Tang. (2024). CELA: Cost-Efficient Language Model Alignment for CTR Prediction.

**Xu Huang**, Weiwen Liu, Xiaolong Chen, Xingmei Wang, Defu Lian, Yasheng Wang, Ruiming Tang, Enhong Chen. (2024). WESE: Weak Exploration to Strong Exploitation for LLM Agents.

**Xu Huang**, Weiwen Liu, Xiaolong Chen, Xingmei Wang, Hao Wang, Defu Lian, Yasheng Wang, Ruiming Tang, Enhong Chen. (2024). Understanding the planning of LLM agents: A survey.

**Xu Huang**, Jianxun Lian, Yuxuan Lei, Jing Yao, Defu Lian, Xing Xie. (2023). Recommender AI Agent: Integrating Large Language Models for Interactive Recommendations.