Xu **Huang**

PH.D. STUDENT · SCHOOL OF COMPUTER SCIENCE

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

(+86) 17805600581 | ✉ xuhuangcs@mail.ustc.edu.cn | 🏠 https://xuhwang.github.io/ | 🐙 https://github.com/XuHwang

Introduction

Brief Introduction: Xu Huang (黄旭, pronounced as /ɕyˋ/ /xwɑŋˊ/, English version /tʃʊ/ /ˈhwæŋ/) 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

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

Internships

Huawei Noah's Ark Lab　　　　*Shenzheng, China*

RESEARCH & ENGINEERING PROGRAM　　　　*2023.11 - Now*

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

Microsoft Research Asia   *Beijing, China*

RESEARCH PROGRAM   *2022.10 - 2023.10*

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

Projects

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

PUBLISHED

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.

Jianxun Lian, Yuxuan Lei, **Xu Huang**, Jing Yao, Wei Xu, Xing Xie. (2024). RecAI: Leveraging Large Language Models for Next-GenerationRecommender 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.

Jin Chen, Zheng Liu, **Xu Huang**, Chenwang Wu, Qi Liu, Gangwei Jiang, Yuanhao Pu, Yuxuan Lei, Xiaolong Chen, Xingmei Wang, Defu Lian, Enhong Chen. (2023). When large language models meet personalization: Perspectives of challenges and opportunities.