

Tianxin Wei

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CURRENT STATUS

I'm a second-year Ph.D. student at the University of Illinois at Urbana Champaign. My research topics are focusing on building reliable machine learning models with fairness, robustness, and generalizability in critical applications.

EDUCATION

University of Illinois, Urbana Champaign (UIUC) Champaign, USA

Doctorate in Information Science, iDEA-iSAIL Lab Sep. 2021 – May 2026 (Expected)

➤ Advisor: Prof. Jingrui He, working with Prof. Hanghang Tong

University of Science and Technology of China (USTC) Anhui, China

Bachelor's Degree in Computer Science, School of the Gifted Young Sep. 2016 – Jul. 2020

➤ Honors: Artificial Intelligence Talent Class

➤ Advisor: Prof. Xiangnan He

PUBLICATIONS (* DENOTES EQUAL CONTRIBUTION)

➤ **Augmentations in Hypergraph Contrastive Learning: Fabricated and Generative** [[PDF](#)]

Tianxin Wei*, Yuning You*, Tianlong Chen, Yang Shen, Jingrui He, Zhangyang Wang

Accepted by the **NeurIPS 2022 (Full Research, AR: 25.6%)**

➤ **Comprehensive Fair Meta-learned Recommender System** [[PDF](#)]

Tianxin Wei, Jingrui He

Accepted by the **KDD 2022 (Full Research, AR: 14.9%)**

➤ **Model-Agnostic Counterfactual Reasoning for Eliminating Popularity Bias in Recommender System** [[PDF](#)]

Tianxin Wei, Fuli Feng, Jiawei Chen, Ziwei Wu, Jinfeng Yi, Xiangnan He

Accepted by the **KDD 2021 (Full Research, AR: 15.4%)**

➤ **Causal Intervention for Leveraging Popularity Bias in Recommendation** [[PDF](#)]

Yang Zhang, Fuli Feng, Xiangnan He, Tianxin Wei, Chonggang Song, Guohui Ling and Yongdong Zhang

Accepted by the **SIGIR 2021. (Full Research, AR: 21.0%, Best Paper Honorable Mention)**

➤ **Fast Adaptation for Cold-start Collaborative Filtering with Meta-learning** [[PDF](#)]

Tianxin Wei, Ziwei Wu, Ruirui Li, Ziniu Hu, Fuli Feng, Xiangnan He, Yizhou Sun, and Wei Wang.

Accepted by **ICDM 2020 (Full Research, AR: 9.8%)**

➤ **Unpaired Multimodal Neural Machine Translation via Reinforcement Learning** [[PDF](#)]

Yijun Wang*, Tianxin Wei*, Qi Liu, Enhong Chen

Accepted by DASFAA 2021 (Full Research, AR: 20.0%)

➤ **AR-Stock: Deep Augmented Relational Stock Prediction** [\[PDF\]](#)

Tianxin Wei, Yuning You, Tianlong Chen.

Work presented at the AAAI 2021 KDF Workshop

PREPRINTS

➤ **Neural Collaborative Filtering Bandits via Meta Learning** [\[PDF\]](#)

Yikun Ban, Yunzhe Qi, Tianxin Wei, Jingrui He

In submission at a key ML conference

➤ **Information Retrieval in Finance**

Fuli Feng*, Tianxin Wei*, Xiangnan He, Cheng Luo, Tat-seng Chua

Under first-round revision at Foundations and Trends® in Information Retrieval

EXPERIENCE

- Department of Computer Science, University of California, Los Angeles (UCLA) California, USA
Visiting Scholar in Professor **Wei Wang & Yizhou Sun's** Group Jul. 2019 – Sep. 2019
Project: Graph-based recsys; Automated meta-path discovery
- Department of Electrical & Computer Engineering, University of Texas at Austin (Virtual) Texas, USA
Research Intern in Professor **Zhangyang Wang's** Group Jan. 2020 – Aug. 2020
Project: Hypergraph contrastive learning; Fintech
- Department of Data Science, University of Science and Technology of China Hefei, China
Research Intern in Professor **Xiangnan He's** Group Aug. 2019 – Jan. 2021
Project: Recommender System

COMMUNITY SERVICE | AWARDS | PATENTS

- PC Member: CIKM 2021-2022, ICML 2022, NeurIPS 2022, LoG 2022, WSDM 2023
- Journal Reviewer: TOIS, Machine Learning, TKDE
- Subreviewer: WWW 2020, SIGIR 2021, SIGIR 2022, KDD 2022
- Best Paper Award Honorable Mention at SIGIR 2021
- Zero Parallel Corpus Multimodal Neural Machine Translation Method | Public Number: CN110245364A
○ Enhong Chen, Qi Liu, Yijun Wang, **Tianxin Wei**
- A Meta-learning Recommendation Method for Cold-start Users | Public Number: CN110245364A
○ Xiangnan He, **Tianxin Wei**, Ziwei Wu, Fuli Feng
- Mitigating Popularity Bias in Recommendation System via Causal Inference | Public Number: CN113158024A
○ Xiangnan He, **Tianxin Wei**, Fuli Feng, Jiawei Chen, Jinfeng Yi