

QIDONG LIU

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EDUCATION

- City University of Hong Kong**, Hong Kong SAR, China Aug 2022 - Present
Joint Ph.D., Data Science
Supervisor: Dr. Xiangyu Zhao [\[HOMEPAGE\]](#)
Lab: AML Lab [\[HOMEPAGE\]](#)
Affiliation: School of Data Science
GPA: 3.85/4.0
- Xi'an Jiaotong University**, Xi'an, China Mar 2021 - Present
Ph.D., Automation
Supervisor: Prof. Feng Tian [\[HOMEPAGE\]](#)
Lab: XJTU-MKFE [\[HOMEPAGE\]](#)
Affiliation: The Faculty of Electronic Information
GPA: 90.92/100
- Xi'an Jiaotong University**, Xi'an, China Sep 2019 - Jan 2021
M.Sc., Cyberspace Security
Supervisor: Prof. Feng Tian
GPA: 90.07/100 (Top 2)
- Xi'an Jiaotong University**, Xi'an, China Sep 2015 - Jun 2019
B.Eng., Automation
GPA: 85.9/100
Graduation Thesis: Analysis of motion sensor on mobile terminal and design of Wechat Mini Programme

RESEARCH INTERESTS

- **Recommendation:** Debias, Sequential, Pre-training
- **Causal Inference:** Treatment Effect Estimation

PUBLICATIONS

[\[Google Scholar\]](#)

- [J4]. **Qidong Liu**, Feng Tian*, Qinghua Zheng and Qianying Wang, Disentangling Interest and Conformity for Eliminating Popularity Bias in Session-Based Recommendation. *Knowledge and Information Systems (KAIS'23, CCF-B Journal)*. [\[PDF\]](#)
- [J3]. **Qidong Liu**, Jiayi Hu, Yutian Xiao, Jingtong Gao and Xiangyu Zhao*, Multimodal Recommender Systems: A Survey, *arXiv preprint arXiv:2302.03883*. [\[PDF\]](#)
- [C4]. **Qidong Liu**, Feng Tian*, Weihua Ji and Qinghua Zheng. "A New Representation Learning Method for Individual Treatment Effect Estimation: Split Covariate Representation Network" *The 12th Asian Conference on Machine Learning (ACML'20, CCF-C Conference)*. [\[PDF\]](#)
- [C3]. Yuhao Wang, Xiangyu Zhao*, Bo Chen, **Qidong Liu**, Huifeng Guo, Huanshuo Liu, Yichao Wang, Rui Zhang and Ruiming Tang, PLATE: A Prompt-enhanced Paradigm for Multi-Target Cross-Domain Recommendation, *The 46th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'23, CCF-A Conference)*.

- [C2]. Fang Nan, Feng Tian*, Yaozhi Wang, **Qidong Liu**, Yanze Wu, Jizhong Zhang, Huan Li, Haiping Zhu, Yuzhe Yao, Heng Zhang, Yaqiang Wu and Qinghua Zheng. Inferring Actions and Joint Attention From Dual-view Classroom Videos, *AAAI 2023 Workshop Artificial Intelligence for Education (AI4Edu'23)* [PDF]
- [J2]. Wenqi Fan, Xiangyu Zhao*, Xiao Chen, Jingran Su, Jingtong Gao, Lin Wang, **Qidong Liu**, Yiqi Wang, Han Xu, Lei Chen, Qing Li, A Comprehensive Survey on Trustworthy Recommender Systems. *arXiv preprint arXiv:2209.10117*. [PDF]
- [J1]. Haiping Zhu, Chengcheng Zhao, **Qidong Liu**, Qinghua Zheng, Jiangwei Zeng, Feng Tian* and Yan Chen, Reciprocal-Constrained Interpretable Job Recommendation. *Journal of Computer Research and Development*, 2021, 58(12): 2660-2672. (CCF-A Chinese Journal) [PDF]
- [C1]. Chen, Yan, Jiangwei Zeng, Haiping Zhu, Feng Tian*, Yu Liu, **Qidong Liu** and Qinghua Zheng. "A Behavior-Item Based Hybrid Intention-Aware Frame for Sequence Recommendation." *International Conference on e-Business Engineering*. Springer, Cham, 2019. (ICEBE'19) [PDF]

COMPETITIONS

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- The 3rd Place in YIDIANZIXUN Code Competition (CTR prediction channel). [RANK] [CODE] 2021

AWARDS

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- Graduate Student First-class Academic Scholarship 2020
 - Outstanding Graduate Award of XJTU 2020
 - XJTU Siyuan Scholarship 2017

INTERNSHIP

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- Tencent Jarvis Lab** Jun 2023 - Now
- Large Language Models for Medical Applications

PROJECTS

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- Diffusion Augmentation for Sequential Recommendation** (with Huawei Noah's Ark) Feb 2023 - Jun 2023
- **Mentor:** Fan Yan & Zhaocheng Du
 - We design a Diffusion Model based augmentation method for sequential recommendation.
 - We conduct comprehensive experiments on three datasets and three SRS backbones to illustrate the efficiency and flexibility of the method.
 - The paper is submitted to CIKM'23.
- Medication Recommendation for Multi-center Hospital** (with Tencent Jarvis Lab) Aug 2022 - Nov 2022
- **Mentor:** Zhaopeng Qiu [HOMEPAGE]
 - We constructed a contrastive pretrain model with prompt tuning for multi-center medication recommendation.
 - We achieved SOTA performance compared with advanced medication recommendation models and multi-domain recommendation methods.
 - The paper is submitted to TOIS.
- Employment Recommendation for undergraduate** (with XJTU Job Center) 2020 - 2021
- We collected five-year employment data of undergraduate in XJTU.
 - We proposed a reciprocal-constrained employment recommendation model based on multi-task learning.
 - The model gives service to undergraduate in XJTU.
- Micro-grid Load Prediction** (with TEBA) 2019 - 2020
- We constructed a LSTM-based and Multi-source Data Fusion model for load prediction.

- We achieved 95% accuracy under 20%EP standard and the model is applied in real production environment.
- I completed a patent draft.

TEACHING EXPERIENCE

- The ACM Web Conference May 2023
Tutorial Speaker: Trustworthy Recommender Systems [\[website\]](#)
- Hong Kong Institute for Data Science Mar 2023
Invited Talk: Pretrain Model for Multi-center Medication Recommendation [\[POSTER\]](#)
- National University of Defense Technology Jul 2021
Invited Talk: Intelligent Tutor System
- Xi'an Jiaotong Univeristy Feb 2020 - Jun 2020
Teaching Assistant: Big Data analytic and knowledge discovery

SERVICES

Program Chair

- International ACM SIGIR Conference on Information Retrieval in the Asia Pacific (SIGIR-AP) 2023

Journal Reviewer

- IEEE Transactions on Knowledge and Data Engineering (TKDE) 2023
- Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2023

External Conference Reviewer

- ACM International Conference on Multimedia (MM) 2023
- ACM Conference on Recommender Systems (RecSys) 2023
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD) 2023
- IEEE International Conference on Data Mining (ICDM) 2022

SKILLS

Programming Language	Python
DL Framework	Pytorch
Tools	Git, Docker, Latex etc.
Soft Skills	Time Management, Communication, Leadership

[Update on May 2023]