

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

- **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) [\[PDF\]](#)
- **Qidong Liu**, Jiayi Hu, Yutian Xiao, Jingtong Gao and Xiangyu Zhao*, Multimodal Recommender Systems: A Survey, *arXiv preprint arXiv:2302.03883*. [\[PDF\]](#)
- **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). [\[PDF\]](#)
- 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) [\[PDF\]](#)
- 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*. [\[PDF\]](#)

- 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) [\[PDF\]](#)
- 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

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

AWARDS

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

PROJECTS

Diffusion Augmentation for Sequential Recommendation (with Huawei Noah's Ark) Feb 2023 - Present

- **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.

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 University
Teaching Assistant: Big Data analytic and knowledge discovery

Feb 2020 - Jun 2020

SERVICES

External Conference Reviewer

- 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

Journal Reviewer

- IEEE Transactions on Knowledge and Data Engineering 2023

SKILLS

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

[Update on May 2023]