

# QIDONG LIU

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## EDUCATION

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**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

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

## PUBLICATIONS

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- **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)* [Accepted]
- **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

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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

## PROJECTS

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**Medication Recommendation for Multi-center Hospital** (with Tencent Jarvis Lab) Aug 2022 - Nov 2022

- **Mentor:** Zhaopeng Qiu
- 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

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- 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

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**External Conference Reviewer**

- 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**

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| <b>Programming Language</b> | Python                                     |
| <b>DL Framework</b>         | Pytorch                                    |
| <b>Tools</b>                | Git, Docker, Latex etc.                    |
| <b>Soft Skills</b>          | Time Management, Communication, Leadership |

[Update on Mar 2023]