

# 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: 3.80/4.0
- 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:** Pre-training, Sequential, Debias
- **Large Language Model:** Multi-task, Applications
- **Causal Inference:** Treatment Effect Estimation
- **Data Mining for Applications:** Smart Education, Intelligent Healthcare

## PUBLICATIONS

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[\[Google Scholar\]](#)

(\* represents the corresponding author, † represents equal contribution.)

[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**<sup>†</sup>, Jiayi Hu<sup>†</sup>, Yutian Xiao<sup>†</sup>, Jingtong Gao and Xiangyu Zhao\*, Multimodal Recommender Systems: A Survey, *arXiv preprint arXiv:2302.03883*. [\[PDF\]](#)

[C5]. **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)*. [\[PDF\]](#)

[C4]. Chengxi Li<sup>†</sup>, Yejing Wang<sup>†</sup>, **Qidong Liu**<sup>†</sup>, Xiangyu Zhao\*, Wangyu Wang, Yiqi Wang, Lixin Zou, Wenqi Fan and Qing Li. "STRec: Sparse Transformer for Sequential Recommendations" *The 17th ACM Conference on Recommender Systems (RecSys'23, CCF-B Conference)*.

[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 7th Place in TianChi CCKS2023-PromptCBLUE Competition (Common Channel) [RANK] 2023
  - The 3rd Place in YIDIANZIXUN Code Competition (CTR prediction channel). [RANK] [CODE] 2021

## AWARDS

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- IJCAI Travel Grant Award 2023
  - 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** May 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**

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- 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**

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### **Journal Reviewer**

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

### **Program Chair & Conference Reviewer**

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

[Update on July 2023]