

Curriculum Vitae

Gao Jingtong

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About Me

I'm a PhD student (2022-2026) of Data Science at the City University of Hong Kong (CityU) under the advisory of Prof. Xiangyu Zhao. Prior to CityU, I completed my MSc under the advisory of Prof. Danwei Wang at Nanyang Technological University (NTU) and my BEng under the advisory of Prof. Shaopeng Dong at Beihang University (BUAA).

Research Interest

Recommender Systems, Advertising, Large Language Models, Reinforcement Learning

Education

- ◆ **Ph.D., City University of Hong Kong, Hong Kong** 09/2022-Now
Data Science (GPA: 3.52/4.3) Supervisor: Prof. Xiangyu Zhao
- ◆ **M.SC., Nanyang Technological University, Singapore** 09/2021-06/2022
Computer Control & Automation (GPA: 4.38/5.0) Supervisor: Prof. Danwei Wang
- ◆ **B.Eng., Beihang University, Beijing, China** 09/2017-07/2021
Automation (GPA: 3.678/4.0) Supervisor: Prof. Shaopeng Dong

Experience

- ◆ **Algorithm Intern** Kuaishou 08/2024-Now
Experience: I participated in the AIGB track of the NeurIPS 2024 auto-bidding competition as a key contributor of the KGAB team and won the first place. I conducted research on recommender systems, reinforcement learning, and Large Language Model-related algorithms, and have published 2 top-tier conference papers. One of the related algorithms have been launched on Kuaishou.
- ◆ **Algorithm Intern** Huawei 09/2022-06/2024
Experience: I conducted research on algorithms related to recommender systems and published 4 top-tier conference papers as the first author. Among them, the algorithms related to 2 of the works have been launched on Huawei.
- ◆ **M.SC. Graduation Project** Prof. Danwei Wang 08/2021-06/2022
Experience: I completed the design of a new algorithm for large-scale LiDAR group calibration based on 3D object recognition.
- ◆ **Research Assistant** Prof. Danwei Wang 11/2021-06/2022
Experience: As a key participant, I completed the research and development of the real-time visual detection and recognition system for urban traffic.
- ◆ **Graduation Project** Prof. Shaopeng Dong 11/2020-07/2021
Experience: I completed the design of a new algorithm for health degradation assessment model based on adversarial networks, and published 1 paper.
- ◆ **Algorithm Intern** CSIJRI 06/2020-09/2020
Experience: As the main contributor, I completed the core algorithm and user interface development of the handheld device for airport object recognition. Currently, the related equipment has been refined and put into application.

Awards & Honors

◆ 1st Place at NeurIPS 2024 Bidding Competition (AIGB Track)	2024
◆ 2nd Place at KDD CUP 2024 Online Shopping Competition	2024
◆ 3 online launched systems at Huawei & Kuaishou	2024-2025
◆ Outstanding Academic Performance Award (OAPA-CityU)	2023&2024
◆ WWW'25, IJCAI'23 Student Travel Award	
◆ Research Tuition Scholarship (RTS-CityU)	2023
◆ Excellent Graduation Design of School of Automation	2021
◆ Beihang Academic Excellence Scholarship	2018

Skills

- ◆ **Programming language:** Python, MATLAB, C
- ◆ **Machine Learning Frameworks:** Pytorch, Transformers, Scikit-learn, veRL, etc.
- ◆ **LLMs:** Prompt Engineering, Fine-tuning, LLM with Reinforcement Learning (RLVR)
- ◆ **Other Frameworks:** ROS robot system, Carla
- ◆ **Language:** Chinese, English

Publications & Tutorials

Tutorials:

Joint Modeling in Deep Recommender Systems

Pengyue Jia, **Jingtong Gao**, Yuhao Wang, Xiaopeng Li, Qidong Liu, Yichao Wang, Bo Chen, Huifeng Guo, Ruiming Tang
IJCAI'23; WWW'25

Trustworthy Recommender Systems: Foundations and Frontiers

Wenqi Fan, Xiangyu Zhao, Lin Wang, Xiao Chen, **Jingtong Gao**, Qidong Liu, Shijie Wang
IJCAI'23; KDD'23; WWW23

Publications:

Generative Auto-Bidding with Value-Guided Explorations

Jingtong Gao, Yewen Li, Shuai Mao, Peng Jiang, Nan Jiang, Yejing Wang, Qingpeng Cai, Fei Pan, Peng Jiang, Kun Gai, Bo An, Xiangyu Zhao
SIGIR'25 (**1 online launched system at Kuaishou**)

SampleLLM: Optimizing Tabular Data Synthesis in Recommendations

Jingtong Gao, Zhaocheng Du, Xiaopeng Li, Xiangyu Zhao, Yichao Wang, Xiangyang Li, Huifeng Guo, Ruiming Tang
WWW'25 (**Oral Presentation, 1 online launched system at Huawei**)

LLM4Rerank: LLM-based Auto-Reranking Framework for Recommendations

Jingtong Gao, Bo Chen, Xiangyu Zhao, Weiwen Liu, Xiangyang Li, Yichao Wang, Wanyu Wang, Huifeng Guo, Ruiming Tang
WWW'25 (**Oral Presentation**)

GAS: Generative Auto-bidding with Post-training Search

Yewen Li, Shuai Mao, **Jingtong Gao**, Nan Jiang, Yujian Xu, Qingpeng Cai, Fei Pan, Peng Jiang, Bo An
WWW'25

GLINT-RU: Gated Lightweight Intelligent Recurrent Units for Sequential Recommender Systems

Sheng Zhang, Maolin Wang, Wanyu Wang, **Jingtong Gao**, Xiangyu Zhao, Yu Yang, Xuetao Wei, Zitao

Liu, Tong Xu
KDD'25

Multimodal Recommender Systems: A Survey

Qidong Liu, Jiayi Hu, Yutian Xiao, Xiangyu Zhao, **Jingtong Gao**, Wanyu Wang, Qing Li, Jiliang Tang
CSUR

Scenario-Aware Hierarchical Dynamic Network for Multi-Scenario Recommendation

Jingtong Gao, Bo Chen, Menghui Zhu, Xiangyu Zhao, Xiaopeng Li, Yuhao Wang, Yichao Wang,
Huifeng Guo, Ruiming Tang
CIKM'24 **(1 online launched system at Huawei)**

SMLP4Rec: An Efficient all-MLP Architecture for Sequential Recommendations

Jingtong Gao, Xiangyu Zhao, Muyang Li, Minghao Zhao, Runze Wu, Ruocheng Guo, Yiding Liu,
Dawei Yin
Transactions on Information Systems

AutoTransfer: Instance Transfer for Cross-Domain Recommendations

Jingtong Gao, Xiangyu Zhao, Bo Chen, Fan Yan, Huifeng Guo, Ruiming Tang
SIGIR'23

A Comprehensive Survey on Trustworthy Recommender Systems

Wenqi Fan, Xiangyu Zhao, Xiao Chen, Jingran Su, **Jingtong Gao**, Lin Wang, Qidong Liu, Yiqi Wang,
Han Xu, Lei Chen, Qing Li
IJCAI'23 Tutorial; KDD'23 Tutorial; WWW23 Tutorial

LinRec: Linear Attention Mechanism for Long-term Sequential Recommender Systems

Langming Liu, Liu Cai, Chi Zhang, Xiangyu Zhao, **Jingtong Gao**, Wanyu Wang, Yifu Lv, Wenqi Fan,
Yiqi Wang, Ming He, Zitao Liu, Qing Li
SIGIR'23

Multi-Task Recommendations with Reinforcement Learning

Ziru Liu, Jiejie Tian, Qingpeng Cai, Xiangyu Zhao, **Jingtong Gao**, Shuchang Liu, Dayou Chen, Tonghao
He, Dong Zheng, Peng Jiang, Kun Gai
WWW'23

DRN-GAN: an integrated deep learning-based health degradation assessment model for naval propulsion system

Jingtong Gao, Shaopeng Dong, Jin Cui, Mei Yuan, Juanru Zhao
Engineering Computations