# 金逸伦 ｜简历

香港科技大学计算机科学与技术系 – 中国 – 香港

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## 教育经历

**香港科技大学计算机科学与工程系**　　　　　　　　　　　　　　　　　　**香港特别行政区**
博士研究生　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*9.2019–*

导师：杨强教授，陈凯教授

**北京大学信息科学技术学院**　　　　　　　　　　　　　　　　　　　　　　　　**北京**
计算机科学与技术系，学士学位, *GPA: 3.7/4.0*　　　　　　　　　　　　　　*9.2015–7.2019*

导师：宋国杰教授

**北京大学国家发展研究院**　　　　　　　　　　　　　　　　　　　　　　　　　**北京**
经济学（双学位）学士学位，*GPA: 3.7/4.0*　　　　　　　　　　　　　　　*9.2016–7.2019*

选修课程：中级微观/宏观经济学, 计量经济学, 金融经济学, 货币与银行, 中国改革专题

**加州大学圣迭戈分校**　　　　　　　　　　　　　　　　　　　　　　　**美国，圣迭戈**
交换学生, *GPA: 3.93/4.0*　　　　　　　　　　　　　　　　　　　　　　*9.2017–12.2017*

选修课程：操作系统, 机器学习, 推荐系统与互联网数据挖掘

## 实习经历

**亚马逊 Stores Foundational AI 团队**　　　　　　　　　　　　　　　**美国，帕罗奥图**
应用科学家实习，导师：李正博士，张晨威博士　　　　　　　　　　　　　*9.2023–4.2024*

研究内容：为大语言模型和在线购物领域设计广泛的评测数据、任务和指标。该评测数据集用于举办 Amazon KDD Cup 2024: 面向大语言模型的多任务在线购物竞赛。

**微众银行**　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**深圳**
算法研究员实习，导师：范力欣博士　　　　　　　　　　　　　　　　　*6.2020–12.2020*

研究内容：联邦学习，机器学习隐私与安全

**北京大学**　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**北京**
科研实习，导师：宋国杰教授　　　　　　　　　　　　　　　　　　　　　*9.2018–9.2019*

研究内容：图数据学习，包括时序感知的、社群感知的图表示学习，以及结构感知的图神经网络。详见"论文"。

## 论文

(*表示 同等贡献.)

## 会议论文

1. **Shopping MMLU: A Massive Multi-Task Online Shopping Benchmark for Large Language Models**
*Yilun Jin, Zheng Li, Chenwei Zhang, Tianyu Cao, Yifan Gao, Pratik Sridatt Jayarao, Mao Li, Xin Liu, Ritesh Sarkhel, Xianfeng Tang, Haodong Wang, Zhengyang Wang, Wenju Xu, Jingfeng Yang, Qingyu Yin, Xian Li, Priyanka Nigam, Yi Xu, Kai Chen, Qiang Yang, Meng Jiang, Bing Yin*
In the 38th Conference on Neural Information Processing Systems (NeurIPS), Datasets and Benchmarks Track, 2024.
*12.2024*

2. **Transferable Graph Structure Learning for Graph-based Traffic Forecasting across Cities**
*Yilun Jin, Kai Chen, Qiang Yang*
In the 29th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023.
*8.2023*

3. **Selective Cross-city Transfer Learning for Traffic Prediction via Source City Region Re-weighting**
*Yilun Jin, Kai Chen, Qiang Yang*
In the 28th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2022.
*8.2022*

4. **Theoretically Improving Graph Neural Networks via Anonymous Walk Graph Kernels**
*Qingqing Long*, **Yilun Jin***, Yi Wu*, Guojie Song*
In the Web Conference (TheWebConf, a.k.a. WWW), 2021.
*4.2021*

5. **Graph Structural-topic Neural Network**
*Qingqing Long*, **Yilun Jin***, Guojie Song, Yi Li, Wei Lin*
In the 26th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2020.
*8.2020*

6. **EPNE: Evolutionary Pattern Preserving Network Embedding**
*Junshan Wang*, **Yilun Jin***, Guojie Song, Xiaojun Ma*
In the 24th European Conference on Artificial Intelligence (ECAI), 2020.
*6.2020*

7. **GraLSP: Graph Neural Networks with Local Structural Patterns**
*Yilun Jin, Guojie Song, Chuan Shi*
In the 34th AAAI Conference on Artificial Intelligence, 2020.
*2.2020*

8. **Achieving Fairness Generalizability for Learning-based Congestion Control with Jury**
*Han Tian, Xudong Liao, Decang Sun, Chaoliang Zeng, **Yilun Jin**, Junxue Zhang, Xinchen Wan, Zilong Wang, Yong Wang, Kai Chen*
To appear in the European Conference on Computer Systems (EuroSys), 2025
*3.2025*

9. **Efficient Decentralized Federated Singular Vector Decomposition**
*Di Chai, Junxue Zhang, Liu Yang, **Yilun Jin**, Leye Wang, Kai Chen, Qiang Yang*
In the 2024 USENIX Annual Technical Conference (ATC), 2024
*8.2024*

10. **Understanding Communication Characteristics of Distributed Training**
*Wenxue Li, Xiangzhou Liu, Yuxuan Li, **Yilun Jin**, Han Tian, Zhizhen Zhong, Guyue Liu, Ying Zhang, Kai Chen*
To Appear in the 8th Asia-Pacific Workshop on Networking (APNet), 2024
*6.2024*

11. **Accelerating Privacy-Preserving Machine Learning With GeniBatch**
*Xinyang Huang, Junxue Zhang, Xiaodian Cheng, Hong Zhang, **Yilun Jin**, Shuihai Hu, Han Tian, Kai Chen*
In the European Conference on Computer Systems (EuroSys), 2024.
*5.2024*

12. **MDP: Model Decomposition and Parallelization of Vision Transformer for Distributed Edge Inference**
*Weiyan Wang, Yiming Zhang, **Yilun Jin**, Han Tian, Li Chen*      *12.2023*
IEEE International Conference on Mobility, Sensing, and Networking (MSN), 2023.

13. **Scalable and Efficient Full-Graph GNN Training for Large Graphs**
*Xinchen Wan, Kaiqiang Xu, Xudong Liao, **Yilun Jin**, Kai Chen, Xin Jin*      *6.2023*
In the ACM Conference on Management of Data (SIGMOD), 2023.

14. **GraphMSE: Efficient Meta-path Selection in Semantically Aligned Feature Space for Graph Neural Networks**
*Yi Li, **Yilun Jin**, Guojie Song, Chuan Shi, Zihao Zhu, Yiming Wang*      *2.2021*
In the 35th AAAI Conference on Artificial Intelligence, 2021.

15. **Domain Adaptive Classification on Heterogeneous Information Networks**
*Shuwen Yang, Guojie Song, **Yilun Jin**, Lun Du*      *7.2020*
In the 29th International Joint Conference on Artificial Intelligence (IJCAI-PRICAI), 2020.

16. **Active Domain Transfer on Network Embedding**
*Lichen Jin, Yizhou Zhang, Guojie Song, **Yilun Jin***      *4.2020*
In the Web Conference (TheWebConf, a.k.a. WWW), 2020.

17. **Hierarchical Community Structure Preserving Network Embedding: A Subspace Approach**
*Qingqing Long, Yiming Wang, Lun Du, Guojie Song, **Yilun Jin**, Wei Lin*      *11.2019*
In the 28th ACM International Conference on Information and Knowledge Management (CIKM), 2019.
***Best Research Paper Runner-up***

18. **DANE: Domain Adaptive Network Embedding**
*Yizhou Zhang, Guojie Song, Lun Du, Shuwen Yang, **Yilun Jin***      *8.2019*
In the 28th International Joint Conference on Artificial Intelligence (IJCAI). 2019.

## 期刊论文

19. **Federated Learning without Full Labels: A Survey**
***Yilun Jin**, Yang Liu, Kai Chen, Qiang Yang*      *5.2023*
In IEEE Data Engineering Bulletin, 2023

20. **SecureBoost: A Lossless Federated Learning Framework**
*Kewei Cheng, Tao Fan, **Yilun Jin**, Yang Liu, Tianjian Chen, Qiang Yang*      *5.2021*
In IEEE Intelligent Systems, 2021

21. **Deep Convolutional Neural Network based Medical Concept Normalization**
*Guojie Song, Qingqing Long, Yi Luo, Yiming Wang, **Yilun Jin***      *9.2020*
In IEEE Transactions on Big Data, 2020

## 个人技能

○ **数学:** 离散数学，线性代数，凸优化，概率与统计，数学分析.
○ **编程语言:** C, C++, Python (TensorFlow, PyTorch), Java, LaTeX, SQL
○ **语言:** 中文 (母语), 英语 (托福 115/口语 26, GRE161+170+5), 日语 (N2), 粤语 (初学者)
○ **通用技能:** 团队合作，自我激励

## 教学经历

- **助教**, *Practice of Programming in C++*, Peking University, Spring 2019
- **助教**, *COMP4631: Computer and Communication Security*, The Hong Kong University of Science and Technology, Spring 2020
- **助教**, *COMP5631: Cryptography and Security*, The Hong Kong University of Science and Technology, Fall 2020
- **助教**, *COMP6211G: Federated Learning*, The Hong Kong University of Science and Technology, Spring 2021
- **助教**, *COMP3511: Operating Systems*, The Hong Kong University of Science and Technology, Fall 2021, Fall 2022

## 学术服务

- **主要组织者**: Amazon KDD Cup Challenge 2024.
- **副本地主席 (Vice Local Chair)**: APNet 2023.
- **会议审稿人**:
  - **2020**: TheWebConf (Poster & Demo), ICONIP
  - **2021**: AAAI, IJCAI, NeurIPS, NeurIPS Datasets and Benchmarks Track, ICONIP
  - **2022**: ICLR, IJCAI, ICML, TheWebConf (Poster & Demo), NeurIPS, NeurIPS Datasets and Benchmarks Track, LoG
  - **2023**: AAAI, ICLR, IJCAI, TheWebConf (Industry), KDD, ICML, ECML-PKDD, NeurIPS, NeurIPS Datasets and Benchmarks Track, LoG
  - **2024**: AAAI, ICLR, SDM, TheWebConf, IJCAI, ICML, KDD, ECML-PKDD, NeurIPS, NeurIPS Datasets and Benchmarks Track
  - **2025**: AAAI, ICLR, KDD, ICML
- **期刊审稿人**: IEEE BigData, IEEE T-ITS, Neural Networks, TMLR, Information Fusion, IEEE IoTJ, IEEE TKDE.

## 获得荣誉

- **优秀审稿人** (Top 20%), *ACM SIGKDD Conference*, 2025.
- **学生参会奖学金**, *ACM SIGKDD Conference*, 2023.
- **2021 年最佳论文**, *IEEE Intelligent Systems*, 2021
- **优秀审稿人**, *NeurIPS*, 2022
- **优秀审稿人** (Top 10%), *ICML*, 2022
- **AAAI 学生奖学金**, *AAAI*, 2020
- **最佳研究论文亚军**, *CIKM Research Track*, 2019
- **优秀科研奖**, *北京大学*, 2018
- **三好学生**, *北京大学*, 2017
- **华为奖学金（校级）**, *北京大学*, 2017
- **俞敏洪海外交流奖学金（校级）**, *北京大学*, 2017
- **方正奖学金（校级）**, *北京大学*, 2016
- **学习优秀奖**, *北京大学*, 2016