

金逸伦 | 简历

香港科技大学计算机科学与技术系 - 中国 - 香港

☎ +86-18101885710, +852-65837148 • ✉ yilun.jin@connect.ust.hk

🌐 kl4805.github.io

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。目前该评测数据集正用于举办 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. **Transferable Graph Structure Learning for Graph-based Traffic Forecasting across Cities**
Yilun Jin, Kai Chen, Qiang Yang 8.2023
In the 29th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023.
2. **Selective Cross-city Transfer Learning for Traffic Prediction via Source City Region Re-weighting**
Yilun Jin, Kai Chen, Qiang Yang 8.2022
In the 28th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2022.
3. **Theoretically Improving Graph Neural Networks via Anonymous Walk Graph Kernels**
Qingqing Long, Yilun Jin*, Yi Wu*, Guojie Song* 4.2021
In the Web Conference (TheWebConf, a.k.a. WWW), 2021.
4. **Graph Structural-topic Neural Network**
Qingqing Long, Yilun Jin*, Guojie Song, Yi Li, Wei Lin* 8.2020
In the 26th SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2020.
5. **EPNE: Evolutionary Pattern Preserving Network Embedding**
Junshan Wang, Yilun Jin*, Guojie Song, Xiaojun Ma* 6.2020
In the 24th European Conference on Artificial Intelligence (ECAI), 2020.
6. **GraLSP: Graph Neural Networks with Local Structural Patterns**
Yilun Jin, Guojie Song, Chuan Shi 2.2020
In the 34th AAAI Conference on Artificial Intelligence, 2020.
7. **Efficient Decentralized Federated Singular Vector Decomposition**
Di Chai, Junxue Zhang, Liu Yang, Yilun Jin, Leye Wang, Kai Chen, Qiang Yang 8.2024
To Appear in the 2024 USENIX Annual Technical Conference (ATC), 2024
8. **Understanding Communication Characteristics of Distributed Training**
Wenxue Li, Xiangzhou Liu, Yuxuan Li, Yilun Jin, Han Tian, Zhizhen Zhong, Guyue Liu, Ying Zhang, Kai Chen 6.2024
To Appear in the 8th Asia-Pacific Workshop on Networking (APNet), 2024
9. **Accelerating Privacy-Preserving Machine Learning With GeniBatch**
Xinyang Huang, Junxue Zhang, Xiaodian Cheng, Hong Zhang, Yilun Jin, Shuihai Hu, Han Tian, Kai Chen 5.2024
In the European Conference on Computer Systems (EuroSys), 2024.
10. **MDP: Model Decomposition and Parallelization of Vision Transformer for Distributed Edge Inference**
Weiyang Wang, Yiming Zhang, Yilun Jin, Han Tian, Li Chen 12.2023
IEEE International Conference on Mobility, Sensing, and Networking (MSN), 2023.
11. **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.
12. **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.

13. **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.
 14. **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.
 15. **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
 16. **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**.....
17. **Federated Learning without Full Labels: A Survey**
Yilun Jin, Yang Liu, Kai Chen, Qiang Yang 5.2023
 In IEEE Data Engineering Bulletin, 2023
 18. **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
 19. **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 & 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
- 期刊审稿人: IEEE BigData, IEEE T-ITS, Neural Networks, TMLR, Information Fusion, IEEE IoTJ, IEEE TKDE.

获得荣誉

- 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