

JIAYUN ZHANG

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EDUCATION

University of California San Diego
Ph.D. Program in Computer Science and Engineering

La Jolla, CA, U.S.A
Sep 2020 - Present

Fudan University
B.S. in Computer Science (with honors)

Shanghai, China
Sep 2015 - Jun 2020

PUBLICATIONS

1. Xiyuan Zhang, Ranak Roy Chowdhury, **Jiayun Zhang**, Dezhi Hong, Rajesh Gupta, Jingbo Shang. Navigating Alignment for Non-identical Client Class Sets: A Label Name-Anchored Federated Learning Framework. *To Appear: Proceedings of the 32nd ACM International Conference on Information and Knowledge Management (CIKM)*, 2023.
2. **Jiayun Zhang**, Xiyuan Zhang, Xinyang Zhang, Dezhi Hong, Rajesh K. Gupta, Jingbo Shang. Navigating Alignment for Non-identical Client Class Sets: A Label Name-Anchored Federated Learning Framework. *To Appear: Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, 2023. [\[pdf\]](#)
3. **Jiayun Zhang**, Xinyang Zhang, Dezhi Hong, Rajesh K. Gupta, and Jingbo Shang. “Minimally Supervised Contextual Inference from Human Mobility: An Iterative Collaborative Distillation Framework.” *To appear: Proceedings of the 32nd International Joint Conferences on Artificial Intelligence (IJCAI)*, 2023.
4. **Jiayun Zhang**, Xinyang Zhang, Dezhi Hong, Rajesh K. Gupta, and Jingbo Shang. “DEMOMOTIF: Demographic Inference from Sparse Records of Shopping Transactions based on Motif Patterns.” *The 3rd International Workshop on Machine Learning on Graphs (MLOG) at the 16th ACM International Conference on Web Search and Data Mining (WSDM)*, Singapore, Mar. 3, 2023. [\[pdf\]](#)
5. Qingyuan Gong, Yushan Liu, **Jiayun Zhang**, Yang Chen, Qi Li, Yu Xiao, Xin Wang, Pan Hui. “Detecting Malicious Accounts in Online Developer Communities Using Deep Learning.” *To appear: IEEE Transactions on Knowledge and Data Engineering (TKDE)*.
6. Huiying Li, Shawn Shan, Emily Wenger, **Jiayun Zhang**, Haitao Zheng, Ben Y. Zhao. “Blacklight: Defending Black-Box Adversarial Attacks on Deep Neural Networks.” *Proceedings of 31st USENIX Security Symposium (USENIX Security)*, Boston, MA, Aug. 2022. [\[pdf\]](#)
7. Erzheng Fu, Yingqiu Zhuang, Jianxi Zhang, **Jiayun Zhang**, Yang Chen. Understanding the User Interactions on GitHub: A Social Network Perspective. *Proceedings of the IEEE 24th International Conference on Computer Supported Cooperative Work in Design (CSCWD)*, Dalian, China, May 2021. [\[pdf\]](#)
8. Shawn Shan, Emily Wenger, **Jiayun Zhang**, Huiying Li, Haitao Zheng, Ben Y. Zhao. “Fawkes: Protecting Personal Privacy against Unauthorized Deep Learning Models.” *Proceedings of the 29th USENIX Security Symposium (USENIX Security)*, Boston, MA, Aug. 2020. [\[pdf\]](#)
9. Yihan Ma, Hua Sun, Yang Chen, **Jiayun Zhang**, Yang Xu, Xin Wang, Pan Hui. DeepPredict: A Zone Preference Prediction System for Online Lodging Platforms. *Journal of Social Computing*, 2021, 2(1):52-70. [\[pdf\]](#)
10. **Jiayun Zhang**, Petr Byvshev, Yu Xiao. “Dataset: A video dataset of a wooden box assembly process.” *Proceedings of the 3rd Workshop on Data Acquisition to Analysis (DATA)*, co-located with the 18th ACM Conference on Embedded Networked Sensor Systems (SenSys), Virtual Event, Japan, Nov. 2020. [\[pdf\]](#)
11. **Jiayun Zhang**, Yang Chen, Qingyuan Gong, Aaron Yi Ding, Yu Xiao, Xin Wang, Pan Hui. “Understanding the Working Time of Developers in IT Companies in China and the United States.” *IEEE Software*, 2021, 38(2):96-106. [\[pdf\]](#)
12. Qingyuan Gong, **Jiayun Zhang**, Yang Chen, Qi Li, Yu Xiao, Xin Wang, Pan Hui. “Detecting Malicious Accounts in Online Developer Communities Using Deep Learning.” *Proceedings of the 28th ACM International Conference on Information and Knowledge Management (CIKM)*, Beijing, China, Nov. 2019. [\[pdf\]](#)

13. Qingyuan Gong, **Jiayun Zhang**, Xin Wang, Yang Chen. “Identifying Structural Hole Spanners in Online Social Networks Using Machine Learning.” *Proceedings of the ACM SIGCOMM 2019 Conference Posters and Demos, Beijing, China, Aug. 2019*. [pdf]
14. Yihan Ma, Hua Sun, Yang Chen, **Jiayun Zhang**, Yang Xu, Xin Wang, Pan Hui. “DeepLoc: A Location Preference Prediction System for Online Lodging Platforms.” *Proceedings of the 14th CCF Chinese Conference on Computer Supported Cooperative Work (ChineseCSCW), Kunming, China, Aug. 2019*. [pdf]

INDUSTRIAL EXPERIENCE

VMware Information Technology (China) Co., Ltd.

Shanghai, China

MTS (Member of Technical Staff) Intern

Apr 2018 – Oct 2018

- Developed a log analysis system for automatically detecting the causes of program failures. 67 types of error causes was detected with an accuracy of 0.936 on real-time data from an internal bug reporting platform.
- Developed web APIs for an internal cloud resource platform to support the use of virtual machine templates.
- Participated in the implementation of Template Validation Service, a system for security verification of virtual machine templates uploaded to database.

PROFESSIONAL SERVICES

- Reviewer, The 29th ACM SIGKDD Conference on Knowledge Discovery And Data Mining (KDD), 2023.
- Reviewer, ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp), 2023.
- Reviewer, The 37th AAAI Conference on Artificial Intelligence (AAAI), 2023.
- Reviewer, Computer Communications.

SELECTED AWARDS

2023 KDD Student Travel Award

2020 Outstanding Graduate of Fudan University

2020 Chun-Tsung Scholar (Research Program Funded by Nobel Laureate Dr. Tsung-Dao Lee)

2019 The First Prize of Shanghai Open Data Innovation Research Competition (Top 1 among 65 teams)

2019 Best Student Award, Mobile Systems and Networking Group at Fudan University (1 out of 32)

2018 Xiyuan Scholar (Undergraduate Research Program at Fudan University)

2016 & 2018 & 2019 Scholarship for Outstanding Students, Fudan University