

# Yiqun DIAO (刁逸群)

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## EDUCATION

### National University of Singapore (NUS), Singapore

08/2021 to present

- PhD candidate in Computer Science, advised by Prof. Bingsheng HE

### Shanghai Jiao Tong University (SJTU), China

09/2017 to 06/2021

- Bachelor in Computer Science and Technology Major GPA: **93.53/100 (4.08/4.3)** Ranking: **1/149**
- Selected in Zhiyuan **Honors** Program of Engineering (Top 5%)

### The University of Texas at Austin (UT Austin), USA

08/2019 to 12/2019

- Exchange student in Computer Science GPA: **4.0/4.0**

## RESEARCH INTEREST

Federated learning, open-set learning, data stream learning systems

## PUBLICATIONS

- [1] **Yiqun Diao**, Yutong Yang, Qinbin Li, Bingsheng He, and Mian Lu. [OEBench: Investigating Open Environment Challenges in Real-World Relational Data Streams](#). 50th International Conference on Very Large Databases (VLDB), 2024.
- [2] Qinbin Li, Junyuan Hong, Chulin Xie, Junyi Hou, **Yiqun Diao**, Zhun Wang, Dan Hendrycks, Zhangyang Wang, Bo Li, Bingsheng He, and Dawn Song. [The NeurIPS 2024 LLM Privacy Challenge](#). NeurIPS 2024 Competition Track, 2024.
- [3] **Yiqun Diao**, Qinbin Li, and Bingsheng He. [Exploiting Label Skews in Federated Learning with Model Concatenation](#). The 38th Annual AAAI Conference on Artificial Intelligence (AAAI), 2024.
- [4] **Yiqun Diao**, Qinbin Li, and Bingsheng He. [Towards Addressing Label Skews in One-Shot Federated Learning](#). In The Eleventh International Conference on Learning Representations (ICLR), 2023.
- [5] Qinbin Li\*, **Yiqun Diao\***, Quan Chen, and Bingsheng He. [Federated learning on non-iid data silos: An experimental study](#). IEEE International Conference on Data Engineering (ICDE), 2022. (\* denotes equal contributions. [Google scholar](#): **850+ citations**; Github [NIID-Bench](#): **550+ stars**)
- [6] Lixin Yang, Jiasen Li, Wenqiang Xu, **Yiqun Diao**, and Cewu Lu. [BiHand: Recovering hand mesh with multi-stage bisected hourglass networks](#). British Machine Vision Conference (BMVC), 2020.
- [7] Qinbin Li, Yesheng Liang, **Yiqun Diao**, Chulin Xie, Bo Li, Bingsheng He, and Dawn Song. [Tree-as-a-Prompt: Boosting Black-Box Large Language Models on Few-Shot Classification of Tabular Data](#). Preprint.

## TEACHING EXPERIENCES

### Teaching Assistant for

- Big Data System for Data Science (NUS, Spring 2022)
- Linear Algebra (SJTU, Fall 2020)
- Computational, Mathematical & Statistical Foundations of Machine Learning (SJTU, Summer 2020)

## HONORS & AWARDS

- NUS Research Achievement Award 2023, 2024
- NUS President Graduate Fellowship 2021-2025
- SJTU Outstanding Graduate 2021
- SJTU Merit Scholarship Class A (Top 1%) 2018
- National Scholarship, Ministry of Education of P.R.China (Top 2%) 2018

## INDUSTRY EXPERIENCES

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- Internship at Microsoft 02/2021 to 07/2021
- Internship at 4Paradigm 12/2022 to 05/2023

## BENCHMARKS & SYSTEMS

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Main developer of [NIID-Bench](#)

- A benchmark for non-IID data problem in federated learning.
- Attracted 500+ stars and 100+ forks in Github.

Main developer of [OEBench](#) and [PyOE](#)

- A benchmark for open environment challenges in real-world relational data streams.
- A Python library for data stream machine learning

## SERVICES

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- Reviewer in CVPR, NeurIPS, ECML/PKDD
- External reviewer in ICDE