Shuaiqi Wang

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Education

Carnegie Mellon University **Pittsburgh, PA, USA**
Jan. 2021 - Dec. 2025 (expected)
- Ph.D. Student, Dept. of Electrical and Computer Engineering
- Advisor: Giulia Fanti

Shanghai Jiao Tong University (SJTU) **Shanghai, China**
Sep. 2016 - Jun. 2020
- Bachelor of Engineering, Dept. of Computer Science
- Zhiyuan Honors Program of Engineering (Top 5%)
- GPA: 92.1/100

Experience

Microsft (Research Intern) **Pittsburgh, PA, USA**
Sep. 2024 - present
- Host: Zinan Lin, Longqi Yang
- Topic: private evolution for document synthesis

Amazon (Research Intern) **San Diego, CA, USA**
Jun. 2024 - Aug. 2024
- Host: Alireza Mehrtash
- Topic: adversarial attack on vision language models

JPMorgan Chase (AI Research Intern) **New York, NY, USA**
Jun. 2023 - Aug. 2023
- Host: Mohsen Ghassemi
- Topic: privacy protection across multiple summary statistical properties

Research Interests

Theoretical foundations of machine learning, and the applications in privacy, security, federated learning and data sharing.

Publications

- **Shuaiqi Wang**, Shuran Zheng, Zinan Lin, Giulia Fanti and Zhiwei Steven Wu. "Inferentially-Private Private Information", in *arXiv preprint arXiv:2410.17095*.
- **Shuaiqi Wang**, Zinan Lin and Giulia Fanti. "Statistic Maximal Leakage", in **ISIT 2024**.
- **Shuaiqi Wang**, Rongzhe Wei, Mohsen Ghassemi, Eleonora Kreacic and Vamsi Potluru. "Guarding Multiple Secrets: Enhanced Summary Statistic Privacy for Data Sharing", in **ICLR 2024 PML Workshop**.
- Xinyi Xu, **Shuaiqi Wang**, Chuan-Sheng Foo, Bryan Kian Hsiang Low and Giulia Fanti. "Data Distribution Valuation with Incentive Compatibility", in **NeurIPS 2024**.
- **Shuaiqi Wang***, Zinan Lin*, Vyas Sekar and Giulia Fanti. "Summary Statistic Privacy in Data Sharing", in **IEEE Journal on Selected Areas in Information Theory (JSAIT)** (2024).

  * Equal contribution.
- Ronghao Ni, Zinan Lin, **Shuaiqi Wang** and Giulia Fanti. "Mixture-of-Linear-Experts for Long-term Time Series Forecasting", in **AISTATS 2024**.
- **Shuaiqi Wang**, Jonathan Hayase, Giulia Fanti and Sewoong Oh. "Towards a Defense Against Federated Backdoor Attacks Under Continuous Training", in *Transactions on Machine Learning Research (TMLR)* (2023).

- Benjie Miao, **Shuaiqi Wang**, Luoyi Fu and Xiaojun Lin. "De-anonymizability of Social Network: Through the Lens of Symmetry", in *MobiHoc 2020*.
- Luoyi Fu, Jiapeng Zhang, **Shuaiqi Wang**, Xinyu Wu, Xinbing Wang and Guihai Chen. "De-anonymizing social networks with overlapping community structure", in *IEEE/ACM Transactions on Networking 28.1 (2020): 360-375*.
- Xudong Wu, Luoyi Fu, **Shuaiqi Wang**, Bo Jiang, Xinbing Wang and Guihai Chen. "Collective Influence Maximization in Mobile Social Networks" in *IEEE Transactions on Mobile Computing (2021)*.

Honors and Awards

Carnegie Institute of Technology Dean's Fellow	2021
Zhiyuan Distinguish Scholarship (Top 1%)	2020
Zhiyuan College Honors Scholarship (Top 5%)	2017, 2018, 2019
Academic Excellence Scholarship	2017, 2018, 2019
First Prize in China Undergraduate Computer Design Competition (Top 5%)	2019

Talks and Interviews

Statistic Maximal Leakage

GCoM Lab in Georgia Tech	Oct. 2024
SIAM Conference on Mathematics of Data Science (MDS 2024)	Oct. 2024
CMU CyLab Partners Conference 2024	Sep. 2024
Interview by NiklasOPF [*talk video*]	Aug. 2024
IEEE International Symposium on Information Theory (ISIT 2024)	Aug. 2024

Services

I am serving as a reviewer/PC member for:

Conference on Neural Information Processing Systems (NeurIPS)	2021, 2022, 2023, 2024
International Conference on Learning Representations (ICLR)	2024, 2025
International Conference on Machine Learning (ICML)	2022
Artificial Intelligence and Statistics (AISTATS)	2024, 2025
The Web Conference	2025
ICAIF Workshop on Synthetic Data for AI in Finance	2024
NeurIPS SyntheticData4ML Workshope	2022
Transactions on Machine Learning Research	
IEEE/ACM Transactions on Networking	
IEEE Transactions on Information Forensics and Security	

Teaching Assistant

CMU 18734: Foundations of Privacy	**Pittsburgh, PA, USA**
Instructor: Steven Wu	*Fall 2021*
CMU 18752: Estimation, Detection and Learning	**Pittsburgh, PA, USA**
Instructor: Rohit Negi	*Spring 2024*

Coding

C, C++, Python, Java, MATLAB, Mathematica, LaTeX, etc.