

Yujia Wang

Curriculum Vitae, updated 2023.03

The Pennsylvania State University
College of Information Sciences and Technology

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Education

The Pennsylvania State University

Ph.D. in Informatics, College of Information Sciences and Technology
Advisor: Prof. Jinghui Chen

PA, USA

2022.01 - Present

University of Michigan

M.S. in Applied Statistics, Department of Statistics

MI, USA

2019.08 - 2021.05

Sichuan University

B.S. in Statistics, College of Mathematics

Chengdu, China

2015.09 - 2019.06

Publications

(* indicates equal contribution)

Under Reviews

1. Tiejun Chen*, Yuanpu Cao*, **Yujia Wang***, Cho-Jui Hsieh, and Jinghui Chen. Federated Learning with Projected Trajectory Regularization.
2. **Yujia Wang**, and Jinghui Chen. Accelerating Adaptive Federated Learning with Local Gossip Averaging.

Conference Publications

3. **Yujia Wang**, Lu Lin, and Jinghui Chen. Communication-Efficient Adaptive Federated Learning. In *Proceedings of the 39th International Conference on Machine Learning (ICML)*, Baltimore, Maryland, USA, 2022.
4. **Yujia Wang**, Lu Lin, and Jinghui Chen. Communication-Compressed Adaptive Gradient Method for Distributed Nonconvex Optimization. In *Proceedings of the 25th International Conference on Artificial Intelligence and Statistics (AISTATS)*, Virtual, 2022.
(A short version of this paper also appears on *International Workshop on Trustable, Verifiable and Auditable Federated Learning in Conjunction with AAAI 2022 (FL-AAAI-22)*.)

Workshop Paper

5. **Yujia Wang**, Yuanpu Cao, Jingcheng Wu, Ruoyu Chen, and Jinghui Chen. Tackling the Data Heterogeneity in Asynchronous Federated Learning with Cached Update Calibration. In *FL-ICML 2023*
6. **Yujia Wang**, Pei Fang, and Jinghui Chen. Accelerating Adaptive Federated Optimization with Local Gossip Communications. In *International Workshop on Federated Learning: Recent Advances and New Challenges, NeurIPS 2022*.

Experiences

The Pennsylvania State University
Research Assistant

PA, USA
2022.01 - Present

The Pennsylvania State University
Research Intern

PA, USA
2021.06 - 2021.12

University of Michigan
Research Assistant

MI, USA
2020.07 - 2020.12

Awards & Honors

- IST Graduate Student Travel Award (2022)
- ICML Travel Grant (2022)
- Outstanding Project of Students' Platform for Innovation and Entrepreneurship Training Program of Sichuan University (2018)
- National Collegiate Mathematics Competition (Second Prize of Sichuan Province, 2017)
- Several awards and scholarships, Sichuan University (2015-2019)

Services

- Reviewer for ICML 2022; KDD 2022; BigData 2023; AAAI 2023; KDD PhD Consortium 2023
- Conference Volunteer for AISTATS 2022; ICML 2022

Teaching Experience

Teaching Assistant for SRA 221: Overview of Information Security
The Pennsylvania State University, Spring 2023
Instructor: Prof. Jinghui Chen