

YE ZHENG

Ph.D. candidate in Computer Science, Rochester Institute of Technology (RIT)

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RESEARCH EXPERIENCE

I focus on the design and analysis of foundational algorithms. Over the past five years, my research has spanned formal privacy and formal safety.

EDUCATION

- Rochester Institute of Technology** (Rochester, USA) Sep 2023 – Present
- Ph.D. candidate in Computer Science, advised by Dr. Yidan Hu
 - Research Topics: AI Privacy, Differential Privacy (Formal Privacy)
- Shenzhen University** (Shenzhen, China) Sep 2020 – Jun 2023
- M.S. in Software Engineering, advised by Dr. Jiayang Liu
 - Research Topics: Neural Network Verification (Formal Verification)
- Henan University** (Kaifeng, China) Sep 2016 – Jun 2020
- B.S. in Mathematics, advised by Dr. Zhonghua Wang
 - Major: Pure Mathematics

PUBLICATIONS (1st-author then co-author; full list at Google Scholar)

Preprints:

1. AUDAGENT: Automated Auditing of Privacy Policy Compliance in AI Agents 📄
Ye Zheng, Yidan Hu
2. Quantifying Classifier Utility under Local Differential Privacy 📄
Ye Zheng, Yidan Hu
3. TraCS: Trajectory Collection in Continuous Space under Local Differential Privacy 📄
Ye Zheng, Yidan Hu

Published papers:

4. [PETS'25] Optimal Piecewise-based Mechanism for Collecting Bounded Numerical Data under Local Differential Privacy 📄 | *Artifact Award Runner-up*
Ye Zheng, Sumita Mishra, and Yidan Hu
5. [PETS'25] Locally Differentially Private Frequency Estimation via Joint Randomized Response 📄
Ye Zheng, Shafizur Rahman Seeam, Yidan Hu, Rui Zhang, and Yanchao Zhang
6. [FSE'22 Demonstrations] MpBP: Verifying Robustness of Neural Networks with Multi-path Bound Propagation 📄
Ye Zheng, Jiayang Liu, and Xiaomu Shi
7. [JOS'22] (in Chinese) Multi-path Back-propagation Method for Neural Network Verification 📄
Ye Zheng, Xiaomu Shi, and Jiayang Liu
8. [CNS'24] Multi-sensor Data Privacy Protection with Adaptive Privacy Budget for IoT Systems 📄
Xinyi Liu, Ye Zheng, Zhengxiong Li, and Yidan Hu
9. [SAS'23] Boosting Multi-neuron Convex Relaxation for Neural Network Verification 📄
Xuezhou Tang, Ye Zheng, and Jiayang Liu

SELECTED AWARDS

Outstanding Graduate, Shenzhen University

Jun 2023

National Scholarship, Ministry of Education, China

Sep 2022

ACADEMIC SERVICES

Reviewer: TASE'24, and SAS'24