

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 AI-driven knowledge discovery, 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 for Science, Differential Privacy (Formal Privacy)
- Shenzhen University** (Shenzhen, China) Sep 2020 – Jun 2023
- M.S. in Software Engineering, advised by Dr. Jiaxiang 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)

1. **[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
2. **[PETS'25]** Locally Differentially Private Frequency Estimation via Joint Randomized Response
Ye Zheng, Shafizur Rahman Seeam, Yidan Hu, Rui Zhang, and Yanchao Zhang
3. **[FSE'22 Demonstrations]** MpBP: Verifying Robustness of Neural Networks with Multi-path Bound Propagation
Ye Zheng, Jiaxiang Liu, and Xiaomu Shi
4. **[JOS'22]** (in Chinese) Multi-path Back-propagation Method for Neural Network Verification
Ye Zheng, Xiaomu Shi, and Jiaxiang Liu
5. **[CNS'24]** Multi-sensor Data Privacy Protection with Adaptive Privacy Budget for IoT Systems
Xinyi Liu, Ye Zheng, Zhengxiong Li, and Yidan Hu
6. **[SAS'23]** Boosting Multi-neuron Convex Relaxation for Neural Network Verification
Xuezhou Tang, Ye Zheng, and Jiaxiang 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