

YE ZHENG

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

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RESEARCH EXPERIENCE

My research focused on the design and analysis of algorithms, with an emphasis on foundational algorithms for ensuring privacy, security, and safety guarantees.

EDUCATION

Rochester Institute of Technology (Rochester, USA) Sep 2023 – Present

- Ph.D. candidate in Computer Science, advised by Dr. Yidan Hu
- Research Topics: Differential Privacy (Randomized Algorithms)

Shenzhen University (Shenzhen, China) Sep 2020 – Jun 2023

- M.S. in Software Engineering, advised by Dr. Jiaxiang Liu
- Research Topics: Neural Network Verification (Formal Methods)

Henan University (Kaifeng, China) Sep 2016 – Jun 2020

- B.S. in Mathematics, advised by Prof. Zhonghua Wang
- Major: Pure Mathematics

PUBLICATIONS (1st-author then co-author)

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