

# YE ZHENG

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

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## RESEARCH EXPERIENCE

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

## EDUCATION

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- 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)

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

## SELECTED AWARDS

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- Outstanding Graduate**, Shenzhen University Jun 2023
- National Scholarship**, Ministry of Education, China Sep 2022

## ACADEMIC SERVICES

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**Reviewer:** TASE'24, and SAS'24