

# 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 spanned formal privacy and formal safety.

## EDUCATION

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

## PUBLICATIONS

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(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

Conference Publications:

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, Jiaxiang Liu, and Xiaomu Shi
7. [IJCS'22] (in Chinese) Multi-path Back-propagation Method for Neural Network Verification ↗  
Ye Zheng, Xiaomu Shi, and Jiaxiang 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 Jiaxiang Liu

## SELECTED AWARDS

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<b>Outstanding Graduate</b> , Shenzhen University	Jun 2023
<b>National Scholarship</b> , Ministry of Education, China	Sep 2022

## ACADEMIC SERVICES

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