

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 theorem proving, formal privacy, and formal safety.

EDUCATION

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| Rochester Institute of Technology (Rochester, USA) | Sep 2023 – Present |
| <ul style="list-style-type: none">◦ Ph.D. candidate in Computer Science, advised by Dr. Yidan Hu◦ Research Topics: AI for Math, Differential Privacy (Formal Privacy) | |
| Shenzhen University (Shenzhen, China) | Sep 2020 – Jun 2023 |
| <ul style="list-style-type: none">◦ 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 |
| <ul style="list-style-type: none">◦ B.S. in Mathematics, advised by Dr. 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 Demonstrations]** 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

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

ACADEMIC SERVICES

Reviewer: TASE'24, and SAS'24