

# 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 AI-driven theorem proving, formal privacy, and formal safety.

## EDUCATION

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| <b>Rochester Institute of Technology</b> (Rochester, USA)  | Sep 2023 – Present  |
| <ul style="list-style-type: none"><li>◦ Ph.D. candidate in Computer Science, advised by Dr. Yidan Hu</li><li>◦ Research Topics: AI for Math, Differential Privacy (Formal Privacy)</li></ul> |                     |
| <b>Shenzhen University</b> (Shenzhen, China)   | Sep 2020 – Jun 2023 |
| <ul style="list-style-type: none"><li>◦ M.S. in Software Engineering, advised by Dr. Jiaxiang Liu</li><li>◦ Research Topics: Neural Network Verification (Formal Verification)</li></ul>     |                     |
| <b>Henan University</b> (Kaifeng, China)   | Sep 2016 – Jun 2020 |
| <ul style="list-style-type: none"><li>◦ B.S. in Mathematics, advised by Dr. Zhonghua Wang</li><li>◦ Major: Pure Mathematics</li></ul>  |                     |

## PUBLICATIONS (1st-author then co-author)

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1. **[PETS'25]** Optimal Piecewise-based Mechanism for Collecting Bounded Numerical Data under Local Differential Privacy  
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

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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