

Ronghao Ni
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Pittsburgh, PA

Education

2024–Present	Ph.D. , Electrical and Computer Engineering, Carnegie Mellon University <i>Supervisors:</i> Prof. Limin Jia and Prof. Lujo Bauer
2022–23	M.S. , Information Networking, Carnegie Mellon University
2016–20	B.Sc. , Computer Science, Hong Kong Baptist University

Publications

Peer-Reviewed

- Learning to Triage Vulnerability Reports from Program Analysis: An Empirical Study in Node.js.**
Ronghao Ni^{*}, Aidan Z. H. Yang^{*}, Min-Chien Hsu, Nuno Sabino, Limin Jia, Ruben Martins, Darion Cassel & Kevin Cheang.
In Proceedings of *41st IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 2026. [\[Paper\]](#).
- On the Difficulty of Selecting Few-Shot Examples for Effective LLM-Based Vulnerability Detection.**
Md Abdul Hannan^{*}, **Ronghao Ni**^{*}, Chi Zhang, Limin Jia, Ravi Mangal & Corina S. Pasareanu.
In Proceedings of *Workshop on LLM Assisted Security and Trust Exploration (LAST-X) at the Network and Distributed System Security Symposium (NDSS)*, 2026. [\[Paper\]](#).
- Mixture-of-Linear-Experts for Long-Term Time Series Forecasting.**
Ronghao Ni, Zinan Lin, Shuaiqi Wang & Giulia Fanti.
In Proceedings of *27th International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2024, pp. 4672–4680. [\[Paper\]](#).
- CFT-Forensics: High-Performance Byzantine Accountability for Crash Fault Tolerant Protocols.**
Weizhao Tang, Peiyao Sheng, **Ronghao Ni**, Pronoy Roy, Xuechao Wang, Giulia Fanti & Pramod Viswanath.
In Proceedings of *6th Conference on Advances in Financial Technologies (AFT)*, 2024. [\[Paper\]](#).
- Computer-Aided Clinical Skin Disease Diagnosis Using CNN and Object Detection Models.**
Xin He, Shihao Wang, Shaohuai Shi, Zhenheng Tang, Yuxin Wang, Zhihao Zhao, Jing Dai, **Ronghao Ni**, Xiaofeng Zhang, Xiaoming Liu, Zhili Wu, Wu Yu & Xiaowen Chu.
In Proceedings of *2019 IEEE International Conference on Big Data (Big Data), KDDBHI Workshop*, 2019, pp. 4839–4844. [\[Paper\]](#).

^{*} Equal contribution.

Preprints

1. **Taint-Style Vulnerability Detection and Confirmation for Node.js Packages Using LLM Agent Reasoning.**

Ronghao Ni, Mihai Christodorescu & Limin Jia.

Preprint, 2026, arXiv: 2604.20179. [\[Paper\]](#).

 [Google Scholar](#)

Teaching

Carnegie Mellon University

2025 Teaching Assistant, Browser Security (18636/18436)

2023 Teaching Assistant, Storage Systems (18746/15746)

Academic Service

Artifact Evaluation Committee

2027 ACM Conference on Computer and Communications Security (CCS)

Reviewer

2025 IEEE Transactions on Big Data (TBD)

2025 Engineering Applications of Artificial Intelligence (EAAI)

External Reviewer

2027 ACM SIGPLAN Symposium on Principles of Programming Languages (POPL)

2026 USENIX Security Symposium

2026 IEEE Symposium on Security and Privacy (S&P)

2026 ACL Rolling Review (ARR)

Academic Recognition

2024 **Carnegie Institute of Technology Dean's Fellow**, Carnegie Mellon University

2024 **Outstanding Student Service Award for a Research Assistant**, Information Networking Institute, Carnegie Mellon University

2020 **Scholastic Award**, Hong Kong Baptist University (First Class Honours; top 2% by cumulative GPA)

Research Experience

2024	Research Assistant, Electrical and Computer Engineering, Carnegie Mellon University, (Advisor: Dr. Giulia Fanti)
2023-24	Research Assistant, Electrical and Computer Engineering, Carnegie Mellon University, (Advisors: Dr. Limin Jia and Dr. Giulia Fanti)
2018-20	Research Assistant, Computer Science, Hong Kong Baptist University, (Advisor: Dr. Xiaowen Chu)

Work Experience

2020	Software Engineer Intern , Neusoft Corporation, China
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Technical Skills

Programming	Python, JavaScript/TypeScript, C/C++, Bash
Security & Program Analysis	Taint analysis, vulnerability analysis, fuzzing, exploit generation and validation
Machine Learning & AI	PyTorch, Hugging Face Transformers, LLM agents