Ningke Li

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Education

Huazhong University of Science and Technology   2022 – Present
- **M.E. in Cyber Science and Engineering**
- **Supervisor:** Prof. Haoyu Wang, Dr. Kailong Wang

Beijing University of Posts and Telecommunications   2018 – 2022
- **B.E. of Information Security**

Publications (*Co-first authors)

[1] Drowzee: Metamorphic Testing for Fact-conflicting Hallucination Detection in Large Language Models
Ningke Li*, Yuekang Li*, Yi Liu, Ling Shi, Kailong Wang, Haoyu Wang

Object-Oriented Programming, Systems, Languages & Applications (OOPSLA), 2024.

[2] Large language models for cyber security: A systematic literature review
Hanxiang Xu, Shenao Wang, *Ningke Li*, Yanjie Zhao, Kai Chen, Kailong Wang, Yang Liu, Ting Yu, Haoyu Wang

Under Review (Preprint arXiv:2405.04760), 2024.

[3] MalWuKong: Towards Fast, Accurate, and Multilingual Detection of Malicious Code Poisoning in OSS Supply Chains

Ningke Li, Shenao Wang, Mingxi Feng, Kailong Wang, Meizhen Wang, Haoyu Wang

IEEE/ACM International Conference on Automated Software Engineering (ASE), Industry Challenge Track, 2023.

[4] Understanding and Tackling Label Errors in Deep Learning-based Vulnerability Detection

Xu Nie*, *Ningke Li**, Kailong Wang, Shangguang Wang, Xiapu Luo, Haoyu Wang

ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2023).

[5] How About Bug-Triggering Paths? - Understanding and Characterizing Learning-Based Vulnerability Detectors

Xiao Cheng, Xu Nie, *Ningke Li*, Zheng Zheng, Haoyu Wang, Yulei Sui

IEEE Transactions on Dependable and Secure Computing (TDSC), 2022, Vol.8.

Projects and Internship

Research Intern, Sangfor Technologies (Shenzhen, China)   2023.08 – 2023.09
Key Technology Research on Vulnerability Detection and Repair Based on LLM

Huawei Collaboration Project   2022.11 – 2023.06
Research on Open-Source Malicious Code Detection Technology

Ant Group Collaboration Project   2023.09 – 2024.08
Research on Automated Discovery of Backdoor Poisoning in the Software Supply Chain

China Telecommunication Technology Lab (CTTL) Collaboration Project 2024.06 – 2024.09
Research and System Development for LLM Algorithm Security and Data Security

Honors And Awards

China National Scholarship   2019, 2023
Outstanding Graduates of Beijing   2022
First Prize of University Scholarship   2020, 2022

Services

Sub-reviewer – ASE 2024, FSE 2024, MSR 2024, Internetware 2024, EMSE 2024, ICECCS 2024