

YUE QIN

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RESEARCH INTERESTS

Trustworthy AI; Privacy compliance check; Cybercrime; Data-driven privacy and security

EDUCATION

Indiana University Bloomington

Ph.D. Program in Computer Science

Aug. 2018 – Jun. 2024 (expected)

GPA: 4.0/4.0

Xiamen University

Bachelor of Engineering in Software Engineering

Aug. 2014 – Jun. 2018

GPA: 3.56/4.0

PUBLICATIONS

Conference Papers | *Cybersecurity, Machine Learning, Natural Language Processing*

- **Yue Qin**, Yue Xiao, Xiaojing Liao. “Vulnerability Intelligence Alignment via Masked Graph Attention Networks”. *to appear in Proceedings of ACM Conference on Computer and Communications Security (CCS), 2023*.
- **Yue Qin**, Zhuoqun Fu, Chuyun Deng, Xiaojing Liao, Jia Zhang, Haixin Duan. “Stolen Risks of Models with Security Properties”. *to appear in Proceedings of ACM Conference on Computer and Communications Security (CCS), 2023*.
- Yue Xiao, Zhengyi Li, **Yue Qin**, Xiaolong Bai, Jiale Guan, Xiaojing Liao, Luyi Xing. “Lalaine: Measuring and Characterizing Non-Compliance of Apple Privacy Labels at Scale”. *In Proceedings of USENIX Security Symposium (Security), 2023*.
- Zhuoqun Fu, Mingxuan Liu, **Yue Qin**, Jia Zhang, Yuan Zou, Qilei Yin, Qi Li, Haixin Duan. “Encrypted Malware Traffic Detection via Graph-based Network Analysis”. *In Proceedings of the 25th International Symposium on Research in Attacks, Intrusions and Defenses (RAID), 2022*.
- Chuyun Deng, Mingxuan Liu, **Yue Qin**, Jia Zhang, Hai-Xin Duan, Donghong Sun. “ValCAT: Variable-Length Contextualized Adversarial Transformations Using Encoder-Decoder Language Model”. *In Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics (NAACL), 2022*.
- Yizheng Chen, Shiqi Wang, **Yue Qin**, Xiaojing Liao, Suman Jana, David Wagner. “Learning Security Classifiers with Verified Global Robustness Properties”. *In Proceeding of ACM Conference on Computer and Communications Security (CCS), 2021*.
- Jian Peng, **Yue Qin**, Yadi Wei, Yuan Zhou. “A PTAS for the Bayesian Thresholding Bandit Problem”. *International Conference on Artificial Intelligence and Statistics., 2020*.
- Peng Wang, Xiaojing Liao, **Yue Qin**, XiaoFeng Wang. “Into the Deep Web: Understanding E-commerce Fraud from Autonomous Chat with Cybercriminals”. *In Proceedings of the ISOC Network and Distributed System Security Symposium (NDSS), 2020*.
- Yi Chen, Luyi Xing, **Yue Qin**, Xiaojing Liao, XiaoFeng Wang, Kai Chen, Wei Zou. “Devils in the Guidance: Predicting Logic Vulnerabilities in Payment Syndication Services through Automated Documentation Analysis”. *In Proceeding of USENIX Security Symposium (Security), 2019*.
- Xiangwen Zhang, Jinsong Su, **Yue Qin**, Yang Liu, Rongrong Ji, and Hongji Wang. “Asynchronous Bidirectional Decoding for Neural Machine Translation”. *In Proceedings of Association for the Advancement of Artificial Intelligence (AAAI), 2018*.
- Jing Yang, Biao Zhang, **Yue Qin**, Xiangwen Zhang, Qian Lin and Jinsong Su. “Otem&Utem: Over- and Under Translation Evaluation Metric for NMT”. *In Proceedings of 7th CCF International Conference, (NLPCC), 2018*.

Journal Papers & Thesis | *Natural Language Processing, Graph Analysis*

- Jinsong Su, Xiangwen Zhang, Qian Lin, Yue Qin, Junfeng Liu, Yang Liu. “Exploiting Reverse Target-Side Contexts for Neural Machine Translation via Asynchronous Bidirectional Decoding”. *Artificial Intelligence (CCF-A, JCR-2) 2019*. 10.1016/j.artint. 2019.103168
- Biao Zhang, Deyi Xiong, Jinsong Su, Yue Qin. “Alignment-Supervised Bidimensional Attention-Based Recursive Auto encoders for Bilingual Phrase Representation”. *IEEE Transactions on Cybernetics. (CCF-B, JCR-1) PP(99):1-11.2018*. DOI: 10.1109/TCYB. 2018.2868982
- Jinsong Su, Shan wu, Biao Zhang, Changxing Wu, Yue Qin, Deyi Xiong. “A Neural Generative Autoencoder for Bilingual Word Embeddings”. *Information Sciences.(CCF-B, JCR-2) 2017*.
- Yue Qin. (2014). Time Series Analysis of Multiple Financial Evolving Network Based on Motif Entropy. (Bachelor Thesis, Xiamen University).

PROFESSIONAL ACTIVITIES

Review Service | *Served as a reviewer*

- IEEE Transactions on Information Forensics and Security (TIFS), 2023
- EAI SecureComm 2023
- Annual Computer Security Applications Conference (ACSAC) 2022,2023 Artifact Evaluation (AE)
- Information Processing and Management, 2023

Review Service | *Served as a sub-reviewer*

- IEEE Symposium on Security and Privacy (Oakland), 2020, 2021, 2022, 2024
- ACM Conference on Computer and Communications Security (CCS), 2019
- Network and Distributed System Security Symposium (NDSS), 2019, 2020, 2021, 2022
- Annual Computer Security Applications Conference (ACSAC), 2019, 2020, 2021
- IEEE Transactions on Dependable and Secure Computing (TDSC), 2020, 2021, 2022

EXPERIENCE

Research Assistant

Sept. 2018 – Now

Indiana University Bloomington

Computer Science Department

- Exploring robust learning frameworks to enforce machine learning models with security and privacy guarantees.
- Investigating the interconnections between robustness, privacy, and generalization of machine learning systems.
- Developing trustworthy intelligent systems for cybersecurity thrusts and practices such as privacy compliance, threat detection, and vulnerability assessment.

Advisor: Xiaoqing Liao

Front-end Engineer Intern

Oct. 2017 – Jan. 2018

Tech Valley, Xiamen Big Data Education & Research Center, China

Technology Department

- Responsible for the front-end design based on Bootstrap/Ajax frame and realizing Javascript
- Running parts of mapping between database model and java model
- Developing through SpringMVC + Spring + MyBatis frame; using SVN and Scrum for management
- Gaining experience in project development and in team cooperation

STUDENT RESEARCH MENTORING

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|-----------------|---|------|
| Zhuoqun Fu | M.S. Institute for Network Sciences and Cyberspace, Tsinghua University | 2022 |
| <i>Project:</i> | <i>Spatio-Temporal Graph for Encrypted Malware Traffic Detection</i> | |
| | <i>Learning ML models with security properties</i> | |
| Chuyun Deng | M.S. Institute for Network Sciences and Cyberspace, Tsinghua University | 2022 |
| <i>Project:</i> | <i>Variable-Length Contextualized Adversarial Text Transformations</i> | |
| | <i>Learning security properties for NLP models</i> | |
| Ruize Gao | B.S. Industrial and Enterprise Systems Engineering, UIUC (expected 2024) | 2023 |
| <i>Project:</i> | <i>Membership inference attacks against models with security properties</i> | |

HONORS AND AWARDS

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| ACM CCS Student Travel Grant | 2023 |
| IEEE EthICS Student Travel Grant | 2023 |
| ACM CCS Best Paper Award Runner-up | 2021 |