Lili Quan

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Tianjin University Ph.D. Student 1997-03-12
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Education/Research Experience

present 2021.09	**Ph.D. Student**, Tianjin University •Expected graduation before 2025.01 College of Intelligence and Computing. Advisor: Prof. Xiaohong Li
2021.09 2018.06	**Master**, Tianjin University College of Intelligence and Computing
2018.09 2014.06	**Bachelor**, Tianjin University of Finance and Economics School of Computer Science and Technology

Research Interests

- **Protocol Security and Testing**
  - Fuzzing for Protocol Software
  - Detection of Protocol Software Defects
- **Testing of Deep Learning Frameworks**
  - Understanding of Bugs in JavaScript-based Deep Learning Frameworks
  - Detection of Defects in JavaScript-based Deep Learning Frameworks
- **Testing of Deep Learning Models**
  - Fairness Testing and Repair

Awards

2015.10 **Merit Student**
2016.10 **National Encourage scholarship**
2019.05 **Second Prize of Information Security Network Attack and Defense Competition**
2021.09 **Doctoral Special Fellowship of Tianjin University**

Publications

1. **Lili Quan**, Qianyu Guo, Hongxu Chen, Xiaofei Xie, Xiaohong Li, Yang Liu, and Jing Hu. SADT: syntax-aware differential testing of certificate validation in SSL/TLS implementations. In 2020 35th IEEE/ACM International Conference on Automated Software Engineering (ASE'2020), pages 524-535. IEEE, 2020. [**CCF-A**]
2. **Lili Quan**, Qianyu Guo, Xiaofei Xie, Sen Chen, Xiaohong Li, and Yang Liu. Towards Understanding the Faults of JavaScript-Based Deep Learning Systems. In Proceedings of the 37th IEEE/ACM International Conference on Automated Software Engineering (ASE '22). [**CCF-A**]
3. **Lili Quan**, Xiaofei Xie, Qianyu Guo, Lingxiao Jiang, Sen Chen, Junjie Wang, and Xiaohong Li. TensorJSFuzz: Effective Testing of Web-Based Deep Learning Frameworks via Input-Constraint Extraction. In Proceedings of the Web Conference, Accepted. (WWW'25). [**CCF-A**]
4. **Lili Quan**, Tianlin Li, Xiaofei Xie, Zhenpeng Chen, Xiaofei Xie, Sen Chen, Lingxiao Jiang, Xiaohong Li. Dissecting Global Search: A Simple Yet Effective Method to Boost Individual Discrimination Testing and Repair. In Proceedings of the 47th IEEE/ACM International Conference on Software Engineering, 2025, Accepted. (ICSE'25). [**CCF-A**]