


# Chenxiong Qian


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## Education

Jan 2015 – May 2021  **Ph.D. Candidate, Georgia Institute of Technology** in Computer Science.  
Advisors: Dr. Wenke Lee and Dr. William R. Harris

Sept 2009 – Jun 2013  **Bachelor of Science, Nanjing University** in Software Engineering.

## Research Interests

My research interests include software security, system security, mobile security and program analysis. I have been focusing on reducing programs' attack surface through program reasoning, policy enforcing and code removing. In pursuit of these goals, I have built tools for finding bugs, enforcing control flow integrity, and have built debloating frameworks for removing code of software's unneeded features.

## Publications

### Conference Proceedings



- 1 **Qian, C.**, Koo, H., Oh, C., Kim, T., & Lee, W. (2020). Slimium: Debloating the chromium browser with feature subsetting. *27th ACM Conference on Computer and Communications Security (CCS)*.
- 2 \***Qian, C.**, \*Hu, H., Alharthi, M., Chung, P. H., Kim, T., & Lee, W. (2019). Razor: A framework for post-deployment software debloating. *28th USENIX Security Symposium (USENIX)* \* *co-first author*.
- 3 Hu, H., **Qian, C.**, Yagemann, C., Chung, S. P. H., Harris, W., Kim, T., & Lee, W. (2018). Enforcing unique code target property for control-flow integrity. *25th ACM Conference on Computer and Communications Security (CCS)*.
- 4 Meng, W., **Qian, C.**, Hao, S., Borgolte, K., Vigna, G., Kruegel, C., & Lee, W. (2018). Rampart: Protecting web applications from cpu-exhaustion denial-of-service attacks. *27th USENIX Security Symposium (USENIX)*.
- 5 Xu, M., **Qian, C.**, Lu, K., Backes, M., & Kim, T. (2018). Precise and scalable detection of double-fetch bugs in os kernels. *39th IEEE Symposium on Security and Privacy (Oakland)*.
- 6 \*Ding, R., \***Qian, C.**, Song, C., Harris, W., Kim, T., & Lee, W. (2017). Efficient protection of path-sensitive control security. *26th USENIX Security Symposium (USENIX)* \* *co-first author*.
- 7 Fratanio, Y., **Qian, C.**, Chung, S. P. H., & Lee, W. (2017). Cloak and dagger: From two permissions to complete control of the ui feedback loop. *38th IEEE Symposium on Security and Privacy (Oakland)* *Distinguished Practical Paper award!*
- 8 Yu, L., Luo, X., **Qian, C.**, & Wang, S. (2016). Revisiting the description-to-behavior fidelity in android applications. *2016 IEEE 23rd International Conference on Software Analysis, Evolution, and Reengineering (SANER)*.
- 9 Xue, L., **Qian, C.**, & Luo, X. (2015). Androidperf: A cross-layer profiling system for android applications. *2015 IEEE 23rd International Symposium on Quality of Service (IWQoS)*.
- 10 Luo, X., Xue, L., Shi, C., Shao, Y., **Qian, C.**, & Chan, E. W. (2014). On measuring one-way path metrics from a web server. *2014 IEEE 22nd International Conference on Network Protocols*.
- 11 **Qian, C.**, Luo, X., Shao, Y., & Chan, A. T. (2014). On tracking information flows through jni in android applications. *2014 44th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN)*.

- 12 Shao, Y., Luo, X., **Qian, C.**, Zhu, P., & Zhang, L. (2014). Towards a scalable resource-driven approach for detecting repackaged android applications. *Proceedings of the 30th Annual Computer Security Applications Conference (ACSAC)*.




## Journal Articles

- 1 \*Xue, L., \***Qian, C.**, Zhou, H., Luo, X., Zhou, Y., Shao, Y., & Chan, A. T. (2019). Ndroid: Toward tracking information flows across multiple android contexts. *IEEE Transactions on Information Forensics and Security* \* *co-first author*.
- 2 Yu, L., Luo, X., **Qian, C.**, Wang, S., & Leung, H. K. (2018). Enhancing the description-to-behavior fidelity in android apps with privacy policy. *IEEE Transactions on Software Engineering*.
- 3 Xu, M., Song, C., Ji, Y., Shih, M.-W., Lu, K., Zheng, C., Duan, R., Jang, Y., Lee, B., **Qian, C.**, Lee, S., & Kim, T. (2016). Toward engineering a secure android ecosystem: A survey of existing techniques. *ACM Comput. Surv.*
- 4 **Qian, C.**, Luo, X., Yu, L., & Gu, G. (2015). Vulhunter: Toward discovering vulnerabilities in android applications. *IEEE Micro*.
- 5 Shao, Y., Luo, X., & **Qian, C.** (2014). Rootguard: Protecting rooted android phones. *Computer*.




## Services

- Committee Member     **PLDI 2016**, Artifact Evaluation Committee.
- External Reviewer     **Oakland (2018, 2019, 2020)**, **USENIX (2016, 2017)**, **CCS (2019)**, **NDSS (2017)**, **EuroSP (2018)**, **RAID (2017)**, **FEAST (2017)**

## Research Experiences

- Jan 2015 - Now     Research Assistant, Georgia Institute of Technology.
- Sep 2013 - Dec 2014     Research Assistant, The Hong Kong Polytechnic University.
- Nov 2012 - Apr 2013     Project Technical Assistant, The Hong Kong Polytechnic University.

## Teaching Experiences

- August 2020     Instructor, 2020 Software Security Summer School
- Spring 2018     Teaching Assistant, CS 4235/CS 6035
- Fall 2016     Teaching Assistant, CS 4235/CS 6035