Fan Zhang

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Education

Ph.D. Student in Computer Science   August 2014–
Advisor: Prof. Ari Juels
Dept. of Computer Science
Cornell University

B.S. in Electronic Engineering   Aug, 2010 – Jul, 2014
Dept. of Electronic Engineering
Tsinghua University
Beijing, China
GPA: 91.1 (out of 100)

Research Interests

I'm interested in systems security and applied cryptography in general. Recently, my projects are centered around the interaction between cryptocurrencies and Intel SGX.

Working Experience

Software Engineer Intern   Jun, 2013 – May, 2014
Intel Opensource Technology Center (01.org)   Beijing, China

- Contributed to the secure NFC payment component in Tizen OS
- Revamped the CVE scanner for Tizen OS

Teaching Experience

Part-time Teaching Assistant   2015, Fall
CS 5435: Security and Privacy in the Wild

Teaching Assistant   2015, Spring
CS5300: The Architecture of Large-scale Information Systems

Teaching Assistant   2014, Fall
CS4410: Operating Systems

Honors and Awards

Academic Excellence Scholarship   2013
from Tsinghua University

National Scholarship   2012
from the Ministry of Education of China

Freshman Scholarship   2010
from Tsinghua University

PUBLICATIONS

[1] Fan Zhang, Ethan Cecchetti, Kyle Croman, Ari Juels, and Elaine Shi. Town crier: An authenticated data feed for smart contracts. In *Proceedings of the 23rd ACM SIGSAC Conference on Computer and Communications Security (CCS '16)*, Vienna, Austria, October 2016. ACM.

[2] Florian Tramer, Fan Zhang, Ari Juels, Michael Reiter, and Thomas Ristenpart. Stealing machine learning models via prediction apis. In *25th USENIX Security Symposium (USENIX Security 16)*, Austin, TX, August 2016. USENIX Association.

[3] Florian Tramer, Fan Zhang, Huang Lin, Jean-Pierre Hubaux, Ari Juels, and Elaine Shi. Sealed-glass proofs: Using transparent enclaves to prove and sell knowledge. Cryptology ePrint Archive, Report 2016/635, 2016. http://eprint.iacr.org/2016/635.

[4] Longqi Yang, Yin Cui, Fan Zhang, John P Pollak, Serge Belongie, and Deborah Estrin. Plateclick: Bootstrapping food preferences through an adaptive visual interface. In *Proceedings of the 24th ACM International on Conference on Information and Knowledge Management*, pages 183–192. ACM, 2015.

INVITED TALKS **"Town Crier"**
- CCS'16, Vienna, Austria.   October, 2016
- IC3 Retreat, New York City.   May, 2016

SOFTWARE ARTIFACTS

[1] Town Crier: an Authenticated Data Feed For Smart Contracts
http://github.com/bl4ck5un/Town-Crier

[2] mbedtls-SGX: a SGX-friendly TLS stack (ported from mbedtls)
https://github.com/bl4ck5un/mbedtls-SGX

[3] Stealing Machine Learning Models via Prediction APIs
https://github.com/ftramer/Steal-ML