

# Fan Zhang

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BASIC INFORMATION	Name: Fan Zhang Dept. of Computer Science Cornell University Ithaca, NY 14850	<a href="http://fanzhang.me">http://fanzhang.me</a> <a href="mailto:fanz@cs.cornell.edu">fanz@cs.cornell.edu</a> +1-607-262-0738
EDUCATION	<b>Ph.D. Student in Computer Science</b> Advisor: Prof. Ari Juels Dept. of Computer Science Cornell University	August 2014–
	<b>B.S. in Electronic Engineering</b> Dept. of Electronic Engineering Tsinghua University Beijing, China GPA: 91.1 (out of 100)	Aug, 2010 – Jul, 2014
RESEARCH INTERESTS	I'm interested in systems security and applied cryptography. In particular, my recent projects explore the new security model offered by a combination of blockchains and trusted hardware (e.g. Intel SGX).	
WORKING EXPERIENCE	<i>Researcher intern</i> SPR, Intel Labs	Jul, 2017 – Aug, 2017 Hillsboro, OR
	<ul style="list-style-type: none"><li>• Contributed to SGX-based distributed ledger.</li></ul> <i>System developer intern</i> Intel Opensource Technology Center (01.org)	Jun, 2013 – May, 2014 Beijing, China
	<ul style="list-style-type: none"><li>• Contributed to the secure NFC payment component in Tizen OS</li><li>• Revamped the CVE scanner for Tizen OS</li></ul>	
PUBLICATIONS	<p>[1] Ethan Cecchetti, <b>Fan Zhang</b>, Yan Ji, Ahmed Kosba, Ari Juels and Elaine Shi. Solidus: Confidential Distributed Ledger Transactions via PVORM. In <i>ACM CCS 17</i>.</p> <p>[2] <b>Fan Zhang</b>, Ittay Eyal, Robert Escriva, Ari Juels and Robbert van Renesse. REM: Resource-Efficient Mining for Blockchains. In <i>USENIX Security 17</i>, Vancouver, Canada, August 2017.</p> <p>[3] Florian Tramer, <b>Fan Zhang</b>, Huang Lin, Jean-Pierre Hubaux, Ari Juels, and Elaine Shi. Sealed-Glass proofs: Using Transparent Enclaves to Prove and Sell Knowledge. In <i>Euro S&amp;P 2017</i>.</p> <p>[4] <b>Fan Zhang</b>, Ethan Cecchetti, Kyle Croman, Ari Juels, and Elaine Shi. Town crier: An authenticated data feed for smart contracts. In <i>CCS 16</i>, Vienna, Austria, October 2016.</p> <p>[5] Florian Tramer, <b>Fan Zhang</b>, Ari Juels, Michael Reiter, and Thomas Ristenpart.</p>	

Stealing machine learning models via prediction APIs. In *USENIX Security 16*, Austin, TX, August 2016.

- [6] 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 (CIKM)*. ACM, 2015.

#### INVITED TALKS

##### **Town Crier**

- Silicon Valley Ethereum Meetup, Santa Clara, CA. August, 2017
- IC3 Retreat, San Francisco, CA. March, 2017
- 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>

#### 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