

BASIC INFORMATION	Fan Zhang 2 West Loop Road New York, NY 10044	http://fanzhang.me fanz@cs.cornell.edu
EDUCATION	Ph.D. Candidate in Computer Science Advisor: Prof. Ari Juels Dept. of Computer Science Cornell University B.S. in Electronic Engineering Dept. of Electronic Engineering Tsinghua University, Beijing, China GPA: 91.1 (out of 100)	August 2014–present Aug, 2010 – Jul, 2014
RESEARCH AREA	Systems security, Applied Cryptography, Trusted Hardware, Blockchain	
HONORS AND AWARDS	IBM PhD Fellowship Award from IBM Academic Excellence Scholarship from Tsinghua University, China National Scholarship from the Ministry of Education of China Freshman Scholarship from Tsinghua University, China	2018-2020 2013 2012 2010
PROFESSIONAL ACTIVITY	Program Committee <ul style="list-style-type: none"> • BITCOIN'18, collocated with Financial Crypto 2018. Reviewer <ul style="list-style-type: none"> • ACM Computing Surveys (2018), Nature Sustainability (2018) Subreviewer <ul style="list-style-type: none"> • USENIX Security (2016), TCC (2019) 	
INVITED TALKS	On Trusted Hardware and Blockchain Hybridization <ul style="list-style-type: none"> • Northeastern University, Cybersecurity Speaker Series. • MIT, CSAIL. • New York University, CS Colloquium. Paralysis Proof <ul style="list-style-type: none"> • IC3 Retreat, New York City. • 5th Bitcoin Workshop, Financial Crypto'18, Curacao. REM <ul style="list-style-type: none"> • USENIX Security'17, Vancouver BC, Canada. Town Crier <ul style="list-style-type: none"> • Silicon Valley Ethereum Meetup, Santa Clara, CA. 	Jan, 2019 Nov, 2018 Oct, 2018 May, 2018 March, 2018 August, 2017 August, 2017

	<ul style="list-style-type: none"> • IC3 Retreat, San Francisco, CA. • CCS'16, Vienna, Austria. • IC3 Retreat, New York City. 	<p>March, 2017</p> <p>October, 2016</p> <p>May, 2016</p>
WORKING EXPERIENCE	<p>Researcher Oasis Labs</p> <p>Researcher SPR (Security & Privacy Research), Intel Labs</p> <p>System developer intern Intel Opensource Technology Center (01.org)</p>	<p>May, 2017 – Aug, 2017 Berkeley, CA</p> <p>Jul, 2017 – Aug, 2017 Hillsboro, OR</p> <p>Jun, 2013 – May, 2014 Beijing, China</p>
TEACHING EXPERIENCE	<p>TA appointments held at Cornell</p> <ul style="list-style-type: none"> • CS5435: Security and Privacy in the Wild • CS5300: The Architecture of Large-scale Information Systems • CS4410: Operating Systems 	<p>2015, Fall</p> <p>2015, Spring</p> <p>2014 Fall</p>
SOFTWARE ARTIFACTS	<ul style="list-style-type: none"> • Town Crier: an Authenticated Data Feed For Smart Contracts https://town-crier.org • CHURP: Dynamic-Committee Proactive Secret Sharing https://churp.io • mbedtls-SGX: a SGX-friendly TLS stack (ported from mbedtls) https://github.com/bl4ck5un/mbedtls-SGX 	
PUBLICATIONS	<p>[1] S. K. D. Maram, F. Zhang, L. Wang, A. Low, Y. Zhang, A. Juels, and D. Song, “CHURP: dynamic-committee proactive secret sharing,” <i>IACR Cryptology ePrint Archive</i>, vol. 2019, p. 17, 2019. [Online]. Available: https://eprint.iacr.org/2019/017.</p> <p>[2] R. Cheng, F. Zhang, J. Kos, W. He, N. Hynes, N. M. Johnson, A. Juels, A. Miller, and D. Song, “Ekiden: A platform for confidentiality-preserving, trustworthy, and performant smart contract execution,” <i>CoRR</i>, vol. abs/1804.05141, 2018. arXiv: 1804.05141. [Online]. Available: http://arxiv.org/abs/1804.05141.</p> <p>[3] F. Zhang, P. Daian, I. Bentov, and A. Juels, “Paralysis proofs: Safe access-structure updates for cryptocurrencies and more,” <i>IACR Cryptology ePrint Archive</i>, vol. 2018, p. 96, 2018. [Online]. Available: http://eprint.iacr.org/2018/096.</p> <p>[4] E. Cecchetti, F. Zhang, Y. Ji, A. E. Kosba, A. Juels, and E. Shi, “Solidus: Confidential distributed ledger transactions via PVORM,” in <i>Proceedings of the 2017 ACM SIGSAC Conference on Computer and Communications Security, CCS 2017, Dallas, TX, USA, October 30 - November 03, 2017</i>, B. M. Thuraisingham, D. Evans, T. Malkin, and D. Xu, Eds., ACM, 2017,</p>	

- pp. 701–717. doi: 10.1145/3133956.3134010. [Online]. Available: <https://doi.org/10.1145/3133956.3134010>.
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 - [8] F. Zhang, E. Cecchetti, K. Croman, A. Juels, and E. Shi, “Town crier: An authenticated data feed for smart contracts,” in *Proceedings of the 2016 ACM SIGSAC Conference on Computer and Communications Security, Vienna, Austria, October 24-28, 2016*, E. R. Weippl, S. Katzenbeisser, C. Kruegel, A. C. Myers, and S. Halevi, Eds., ACM, 2016, pp. 270–282. doi: 10.1145/2976749.2978326. [Online]. Available: <https://doi.org/10.1145/2976749.2978326>.
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 - [10] L. Yang, Y. Cui, F. Zhang, J. P. Pollak, S. Belongie, and D. Estrin, “Plateclick: Bootstrapping food preferences through an adaptive visual interface,” in *Proceedings of the 24th ACM International on Conference on Information and Knowledge Management*, ACM, 2015, pp. 183–192. [Online]. Available: <http://www.cs.cornell.edu/~ylongqi/publications/YangCZPBE15.pdf>.