

Frank Y. Wang

frankw@mit.edu
(408) 893-1709

<http://frankwang.org>

Education	Massachusetts Institute of Technology Ph.D. in Computer Science Advised by Prof. Nickolai Zeldovich and Prof. James Mickens	Sept 2012 -
	Stanford University B.S. in Computer Science with Honors and Minor in Mathematics Advised by Prof. Dan Boneh Thesis Title: Offloading Critical Security Operations to the GPU	Sept 2008 - June 2012

Publications

1. **Frank Wang**, James Mickens, Nickolai Zeldovich, and Vinod Vaikuntanathan. "Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds." In proceedings of Networked Systems Design and Implementation (NSDI) 2016.
2. Dan Boneh, Craig Gentry, Shai Halevi, **Frank Wang**, and David J. Wu. "Private database queries using Somewhat Homomorphic Encryption." In proceedings of Applied Cryptography and Network Security (ACNS) 2013.
3. Zachary Weinberg, Jeffrey Wang, Vinod Yegneswaran, Linda Briesemeister, Steven Cheung, **Frank Wang**, and Dan Boneh. "StegoTorus: a camouflage proxy for the Tor anonymity system." In proceedings of ACM Conference on Computer and Communications Security (CCS) 2012.
4. Peifung E. Lam, John C. Mitchell, Andre Scedrov, Sharada Sundaram, and **Frank Wang**. "Declarative privacy policy: Finite models and Attribute-Based Encryption." In proceedings of 2nd ACM International Health Informatics Symposium, 2012.
5. Venkatasubramanian Viswanathan and **Frank Wang**. "Theoretical analysis of the effect of particle size and support on the kinetics of oxygen reduction reaction on platinum nanoparticles." *Nanoscale*, 2012, 4(16), 5110-5117.
6. Venkatasubramanian Viswanathan, **Frank Wang**, and Heinz Pitsch. "Dynamic Monte-Carlo based approach for simulating nanostructured catalytic and electrocatalytic systems." *Computing in Science and Engineering*, 2012, 14(2), 60-68.

Invited Talks

University of Waterloo CrySP Seminar <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	Jan 2017
Boston University Security Seminar <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	Oct 2016
Georgia Institute of Technology Cybersecurity Lecture Series <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	Sept 2016
University of Washington Computer Science Seminar <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	Aug 2016
Curry-On 2016 <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	July 2016
New England Security Day <i>Sieve: Cryptographically Enforced Access Control for User Data in Untrusted Clouds</i>	Apr 2016

	2016 Networked Systems Design and Implementation (NSDI) <i>Sieve: Cryptographically Enforced Access Control for User Data in Un-trusted Clouds</i>	Mar 2016
	Northeastern Security Seminar <i>Sieve: Cryptographically Enforced Access Control for User Data in Un-trusted Clouds</i>	July 2015
External Reviewer	2016 IEEE S&P, 2016 ACM CCS	
Teaching	Teaching Assistant for MIT Computer Networks (6.829)	Fall 2016
	Teaching Assistant for MIT Computer Systems Security (6.858)	Fall 2012
	Teaching Assistant for Stanford Introduction to Cryptography (CS 255)	Winter 2012
Other Teaching	Recurse Center , Resident Held security and cryptography seminars. Mentored programmers in security, cryptography, and systems.	May 2016, June 2015
	CMU Coursera Class , Online Course Assistant Statistical Thermodynamics: Molecules to Machines	2014 - Current
Awards	NSF Graduate Research Fellowship Jacobs Presidential Fellowship Massachusetts Institute of Technology	Sept 2013 - Sept 2016 Sept 2012 - June 2013
Industry Experience	Facebook , Security Engineer Research Intern Designing and building infrastructure for intrusion detection.	June - Aug 2013
	Google , Software Engineering Intern Chrome security research project for Security Research Team under mentorship of Elie Bursztein and Ulfar Erlingsson.	June - Aug 2012
Other Experience	Rough Draft Ventures , Student Partner Investment fund that invests in Boston early student startups.	Sept 2014 - Current
	Sidney Pacific , Board of Trustees Advise new officers, administer elections, and deal with major issues.	May 2015 - Current
	Cybersecurity Factory , Co-founder Summer program that provides mentorship and capital to early stage cybersecurity companies.	2015 - Current
	Sidney Pacific , Web Chair Maintain website and create new features.	Sept 2012 - May 2015