

Marcella Hastings

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#### CONTACT

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#### EDUCATION

**University of Pennsylvania**, Philadelphia, Pennsylvania USA  
Ph.D., Department of Computer Science, (*in progress*)  
Advisor: Nadia Heninger

**Tufts University**, Medford, Massachusetts USA  
B.S., Computer Science and Mathematics, May 2015  
*Summa Cum Laude*

#### PUBLICATIONS

##### *Refereed Conference Proceedings*

SoK: General Purpose Compilers for Secure Multi-Party Computation. Marcella Hastings, Brett Hemenway, Daniel Noble, and Steve Zdancewic. To appear in *40th IEEE Symposium on Security and Privacy* (Oakland '19). May 2019.

The Proof is in the Pudding: Proofs of Work for Solving Discrete Logarithms. Marcella Hastings, Nadia Heninger, Eric Wustrow. To appear in *Financial Cryptography*. February 2019.

Measuring small subgroup attacks on Diffie-Hellman. Luke Valenta, David Adrian, Antonio Sanso, Shaanan Cohney, Joshua Fried, Marcella Hastings, J. Alex Halderman, Nadia Heninger. In *Network and Distributed System Security Symposium* (NDSS '17). 2017.

Weak Keys Remain Widespread in Network Devices. Marcella Hastings, Joshua Fried, and Nadia Heninger. In *Proceedings of the 2016 ACM on Internet Measurement Conference* (IMC '16). November 2016.

#### INVITED TALKS

*General purpose compilers for secure multi-party computation*  
DC Area Crypto Day, December 2018  
Theory and Practice of Multi-Party Computation Workshops, June 2019

#### SERVICE

##### *External Reviewing*

PETS 2017, 2018, 2019

#### TEACHING

##### *Teaching Assistant*

CIS 331: Introduction to Networks and System Security, Spring 2017, University of Pennsylvania  
CIS 556: Cryptography, Fall 2016, University of Pennsylvania  
COMP 170: Theory of Computation, Spring 2015, Tufts University  
COMP 50: Problem-Solving by Computer, Fall 2013, Tufts University  
COMP 11: Introduction to Computer Science, Fall 2012 - Spring 2015, Tufts University

##### *Middle School*

GEMS Computer Science Workshop, 2017

#### AWARDS AND HONORS

The James Schmolze Award for Excellence in Computer Science, Tufts University, May 2015  
The Class of 1942 Prize Scholarship, Tufts University, May 2015  
Tau Beta Pi