Kevin Liao

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Research Interests

Programming languages, cryptography, computer security & privacy

Education

Ph.D. in Computer Science, University of Illinois at Urbana-Champaign

Aug. 2017 - Present

Advisor: Andrew Miller

B.S. in Computer Science with Honors, Arizona State University

Aug. 2013 - May 2017

Advisors: Gail-Joon Ahn, Adam Doupé, Ziming Zhao

Honors & Awards

National Science Foundation Graduate Research Fellowship

Outstanding Graduate in Computer Science, Arizona State University

May 2017

Moeur Award, Arizona State University

May 2017

Research Grants

SaUCy: Modular Testing and Verification for Distributed Cryptography
Facebook, \$50,000
Pl: Andrew Miller, Co-Pl: Kevin Liao

Conference Publications

Behind Closed Doors: Measurement and Analysis of CryptoLocker Ransoms in Bitcoin Kevin Liao, Ziming Zhao, Adam Doupé, and Gail-Joon Ahn Proceedings of the Symposium on Electronic Crime Research (eCrime), June 2016.

Workshop Publications

Incentivizing Blockchain Forks via Whale Transactions

Kevin Liao and Jonathan Katz

Proceedings of the 4th Workshop on Bitcoin and Blockchain Research (BITCOIN), April 2017.

Books & Chapters

Ransomware and Cryptocurrency: Partners in Crime

Kevin Liao, Ziming Zhao, Adam Doupé, and Gail-Joon Ahn

Cybercrime Through an Interdisciplinary Lens ed. by Thomas J. Holt.

In Submission

A Calculus for Composable, Computational Cryptography

Kevin Liao, Matthew Hammer, and Andrew Miller

Black-Box Web Vulnerability Analysis Using White-Box Techniques

Kevin Liao, Connor Nelson, and Adam Doupé

Professional Experience

Research Assistant, University of Illinois at Urbana-Champaign Aug. 2017 - Present

Advisor: Andrew Miller

Research Assistant, Arizona State University

May 2017 - Aug. 2017

Advisor: Adam Doupé

Undergraduate Research Assistant, University of Maryland Jun. 2016 - Aug. 2016

Advisor: Jonathan Katz

Professional Service

Program Committee, IEEE International Conference on Blockchain and Cryptocurrency (ICBC), 2019

Teaching

Teaching Assistant, University of Illinois at Urbana-Champaign CS498: Applied Cryptography	Fall 2018
Undergraduate Teaching Assistant, Arizona State University CSE220: Programming for Computer Engineering	Spring 2017
Course Designer, First Gen Scientists	Fall 2016
Undergraduate Teaching Assistant, Arizona State University CSE240: Introduction to Programming Languages	Fall 2016
Undergraduate Teaching Assistant, Arizona State University CSE110: Introduction to Programming	Fall 2014
Advising & Mentoring	
Dhruv Bohra, Eunice Zhou	Fall 2018
Talks	
Incentivizing Blockchain Forks via Whale Transactions Workshop on Bitcoin and Blockchain Research (Sliema, Malta)	Apr. 2017
Measurement and Analysis of CryptoLocker Ransoms in Bitcoin Symposium on Electronic Crime Research (Toronto, CA)	Jun. 2016