# KEVIN LIAO

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## RESEARCH INTERESTS

Computer security & privacy, cryptography, programming languages, formal verification

## EDUCATION

**Ph.D. in Computer Science**, University of Illinois Urbana-Champaign                    Aug. 2017 - Present
Advisor: Andrew Miller

**B.S. in Computer Science with Honors**, Arizona State University                    Aug. 2013 - May 2017
Advisors: Adam Doupé, Gail-Joon Ahn
Thesis: Toward Inductive Reverse Engineering of Web Applications
Committee: Adam Doupé (Chair), Gail-Joon Ahn, Ziming Zhao

## HONORS & AWARDS

National Science Foundation Graduate Research Fellowship                    Aug. 2017 - Present

Outstanding Graduate in Computer Science, Arizona State University                    May 2017

Moeur Award, Arizona State University                    May 2017

## PUBLICATIONS

### CONFERENCES

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.

### WORKSHOPS

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

Toward Inductive Reverse Engineering of Web Applications.
Kevin Liao, Tejas Khairnar, 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

Undergraduate Research Assistant, Arizona State University                     Mar. 2015 - May 2017
Advisors: Gail-Joon Ahn, Adam Doupé, Ziming Zhao

## TEACHING

Course Designer, First Gen Scientists                                                        Fall 2016

Undergraduate Teaching Assistant, Arizona State University                              Spring 2017
CSE220: Programming for Computer Engineering

Undergraduate Teaching Assistant, Arizona State University                               Fall 2016
CSE240: Introduction to Programming Languages

Undergraduate Teaching Assistant, Arizona State University                               Fall 2014
CSE110: Introduction to Programming

## TALKS

Incentivizing Blockchain Forks via Whale Transactions                                    Apr. 2017
Workshop on Bitcoin and Blockchain Research (Sliema, Malta)

Measurement and Analysis of CryptoLocker Ransoms in Bitcoin                              Jun. 2016
Symposium on Electronic Crime Research (Toronto, CA)

## MISC.

Cornell, Maryland, Max Planck Pre-Doctoral Research School                               Aug. 2017