

**USENIX Association**

**Proceedings of the  
Sixteenth Symposium on  
Usable Privacy and Security (SOUPS 2020)**

**August 10–11, 2020**

© 2020 by The USENIX Association

All Rights Reserved

This volume is published as a collective work. Rights to individual papers remain with the author or the author's employer. Permission is granted for the noncommercial reproduction of the complete work for educational or research purposes. Permission is granted to print, primarily for one person's exclusive use, a single copy of these Proceedings. USENIX acknowledges all trademarks herein.

ISBN 978-1-939133-16-8

Cover Image created by freevector.com and distributed under the Creative Commons Attribution-ShareAlike 4.0 license (<https://creativecommons.org/licenses/by-sa/4.0/>).

## Symposium Organizers

### General Chair

Heather Richter Lipford, *University of North Carolina at Charlotte*

### Vice General Chair

Sonia Chiasson, *Carleton University*

### Technical Papers Co-Chairs

Joe Calandrino, *Federal Trade Commission*

Michelle Mazurek, *University of Maryland*

### Technical Papers Committee

Adam Aviv, *The George Washington University*

Lujo Bauer, *Carnegie Mellon University*

Cristian Bravo-Lillo, *Ciberseguridad Humana, Chile*

Lynne Coventry, *Northumbria University*

Lorrie Cranor, *Carnegie Mellon University*

Heather Crawford, *Florida Institute of Technology*

Serge Egelman, *International Computer Science Institute (ICSI) and University of California, Berkeley*

Sascha Fahl, *Leibniz University Hannover*

Carrie Gates, *Bank of America*

Maximilian Golla, *Max Planck Institute for Cyber Security and Privacy*

Julie Haney, *National Institute of Standards and Technology (NIST)*

Marian Harbach, *Google*

Jun Ho Huh, *Samsung Research*

Maritza Johnson, *Google*

Apu Kapadia, *Indiana University Bloomington*

Jennifer King, *Stanford University*

Katharina Krombholz, *CISPA Helmholtz Center for Information Security*

Janne Lindqvist, *Aalto University and Rutgers University*

Abigail Marsh, *Macalester College*

Susan E. McGregor, *Tow Center for Digital Journalism, Columbia Journalism School*

Robert Reeder, *Google*

Irwin Reyes, *Two Six Labs*

Scott Ruoti, *University of Tennessee, Knoxville*

Florian Schaub, *University of Michigan*

Kent Seamons, *Brigham Young University*

Manya Sleeper, *Google*

Elizabeth Stobert, *Carleton University*

Jose Miguel Such, *King's College London*

Blase Ur, *University of Chicago*

Emanuel von Zezschwitz, *Google*

Rick Wash, *Michigan State University*

Josephine Wolff, *Fletcher School, Tufts University*

Mary Ellen Zurko, *MIT Lincoln Laboratory*

### Lightning Talks and Demos Co-Chairs

Yousra Javed, *Illinois State University*

Blase Ur, *University of Chicago*

### Karat Award Chair

Rick Wash, *Michigan State University*

### Posters Co-Chairs

Heather Crawford, *Florida Institute of Technology*

Maximilian Golla, *Max Planck Institute of Cyber Security and Privacy*

### Tutorials and Workshops Co-Chairs

Katharina Krombholz, *CISPA Saarland*

Daniel Zappala, *Brigham Young University*

### Mentoring Co-Chairs

Adam Aviv, *The George Washington University*

Daniela Napoli, *Carleton University*

Daniel Votipka, *University of Maryland*

### Publicity Co-Chairs

Nalin Asanka Gamagedara Arachchilage, *University of New South Wales*

Yaxing Yao, *Syracuse University*

### Email List Chair

Lorrie Cranor, *Carnegie Mellon University*

### Accessibility Chair

Rich Williams, *USENIX Association*

### USENIX Liaison

Casey Henderson, *USENIX Association*

## Extended Program Committee

Yasemin Acar  
Pam Briggs

Sunny Consolvo  
Patrick Kelley

Bart Knijnenburg  
Matthew Smith

Yang Wang

## External Reviewers

Yasmin Acar  
Tousif Ahmed  
David Barrera  
Merlin Chlosta  
Camille Cobb  
Shaneé Dawkins  
Florian Farke

Matthias Fassel  
Clement Fung  
Shakthidhar Reddy Gopavaram  
Roberto Hoyle  
Tyler Kaczmarek  
Bart Knijnenburg  
Philipp Markert

Ian Oakley  
Kopo M. Ramokapane  
Theodor Schnitzler  
Hyejin Shin  
Bich Vu  
Simon S. Woo