

# Usable and Effective Online Security and Privacy



Lorrie Cranor

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## CURRENT RESEARCH

### Empirical data increases effectiveness and usability of security and privacy

Passwords can be a challenge; many require symbols, have character length restrictions, or require words that aren't found in the dictionary. In a changing world where our Internet passwords protect an uncanny amount of information, it has become more important to understand why people choose passwords, how to create safe passwords, and how to store the passwords we have created. Dr. Lorrie Cranor, of Carnegie Mellon University, focuses on the human side of computer security and privacy. She studies how people work and use technology and then she and her team apply these findings to create more usable privacy and security solutions. Besides studying passwords, Dr. Cranor is working on tools to help people protect their privacy on social networks, understand privacy policies, avoid falling for phishing attacks, and keep their teenagers safe without invading their privacy. Dr. Cranor has played a key role in building the usable privacy and security research community, having co-edited the seminal book *Security and Usability* (O'Reilly 2005) and founded the Symposium On Usable Privacy and Security (SOUPS).

Dr. Cranor's goal is to develop scientifically-validated processes and design patterns, and create guidelines that will provide a roadmap for system designers to build systems that are simultaneously usable and secure. At the intersection of several disciplines including human-computer interaction, computer security, privacy, public policy, social science, and engineering, Dr. Cranor hopes to make computer security and privacy easier for users. These interactions influence technology design decisions that, in turn, shape the possibilities for our social and business interactions. Through a multidisciplinary...

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## AFFILIATION

 Carnegie Mellon University

## EDUCATION

- B.S., in Engineering and Public Policy, 1992 . Washington University
- M.S., in Technology and Human Affairs, 1993 . Washington University
- M.S., in Computer Science, 1996 . Washington University
- D.Sc., in Engineering and Policy, 1996 . Washington University

## AWARDS

- Montgomery Blair High School Magnet Foundation Distinguished Alumni Award, 2014
- Symposium On Usable Privacy and Security Distinguished Paper Award, 2013
- Information Systems Society and Information Systems Research Best Published Paper Award, 2012
- Recognized as a Privacy by Design Ambassador by the Information and Privacy Commissioner, Ontario, Canada, 2012
- Technology Review Top 100 Innovator 35 or Younger, 2003
- and 1 more...

## RESEARCH AREAS

Technology, Cybersecurity, IOT, Devices, Data, Global Policy

## FUNDING REQUEST

Your contributions will support the continued research of Dr. Lorrie Cranor and her lab, the CyLab Usable Privacy and Security Laboratory, as she works to make online security and privacy more effective and usable. Donations will support graduate students, postdocs, and the user studies they conduct. Therefore, in choosing to support Dr. Cranor's research you will be a part of creating a more secure online experience and educating future scientists.