# Social Cybersecurity: Applying Social Influence to Improve Cybersecurity

### **Challenge:**

- Low adoption of expert recommended security practices
- Security tool design largely ignores social context of use

Studies of social influences on security behavior



Romantic cybersecurity

Workplace account sharing

## **Scientific Impact:**

- Developing framework for cybersecurity game design
- Describing social influences on security and privacy practices
- Introducing new measures for assessing security attitudes and behaviors

# Solution:

- Empirical research on security behavior in social contexts
- Applying psychological theory to design of cybersecurity games and interventions



SATC Core Medium CNS -1704087 Carnegie Mellon University Laura Dabbish (PI), Jason Hong Theory-based design of mini-games and interventions



Self-efficacy based narrative game



# Associating data and protection mechanisms

## **Broader Impact:**

- Improve security tool design to account for social context
- Provide guidelines for cybersecurity designers, educators, and IT decision makers in organizations
- Release mini-games
  publicly for general use

