# Pocket Security:

## Smartphone Cybercrime in the Wild

Pls: David Maimon (U. of Maryland), Lucas Layman (Fraunhofer) https://www.pocket-security.org/



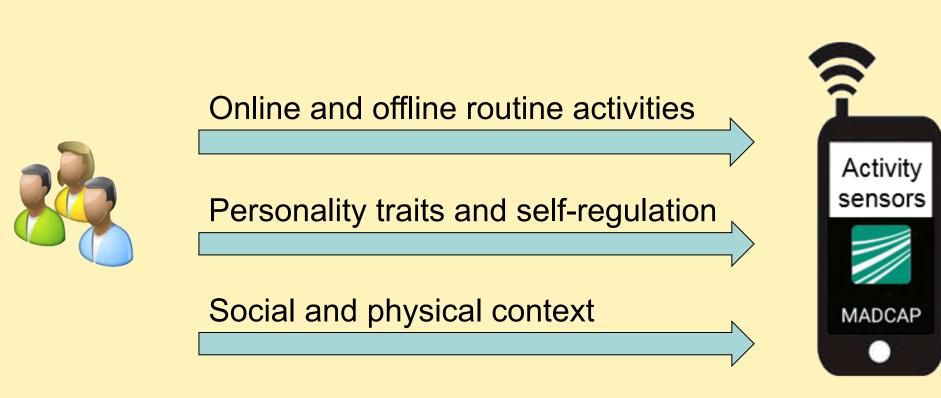


#### RESEARCH CHALLENGE

How do we prevent smartphone-enabled cybercrime in the real world?

- A thief steals a phone from a restaurant tabletop
- A user installs spyware accidentally because of real-world distraction





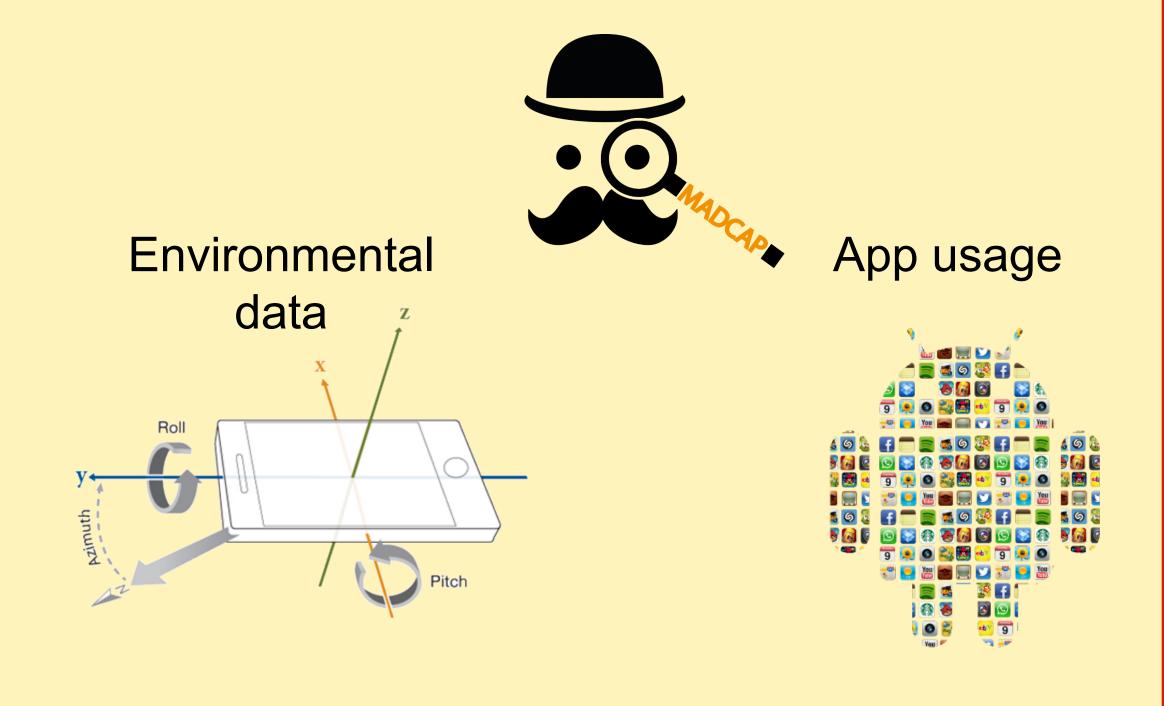
### **EXPANDING SOCIAL SCIENCE**

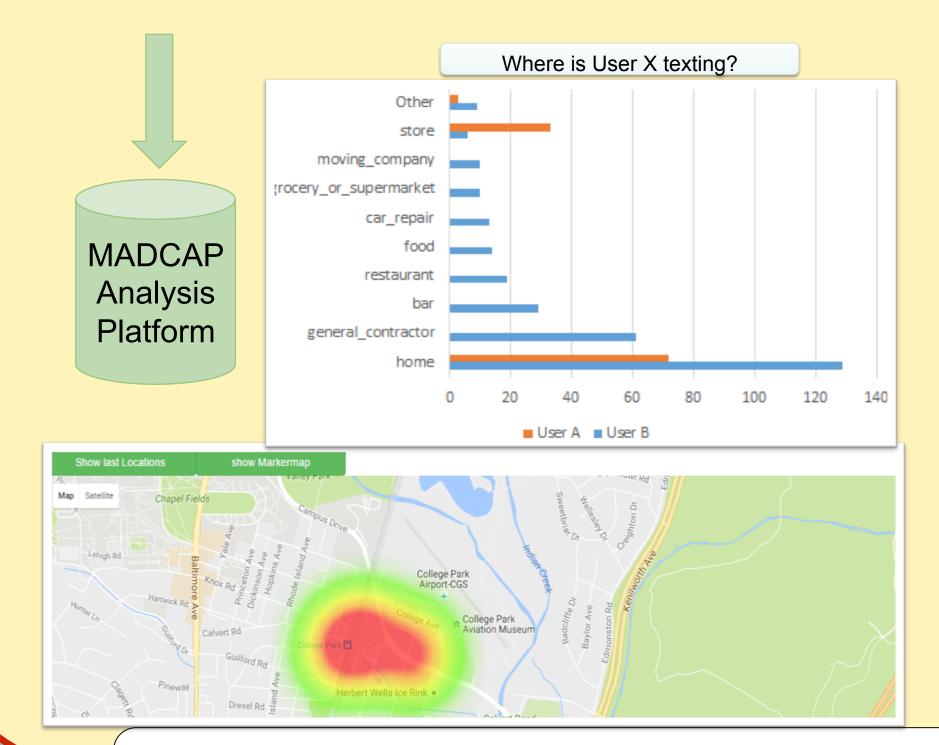
Do existing psychological, social, and criminological theories apply to mobile cybercrime?

- Routine activities
- Self-regulation
- "Broken windows"

### LEARNING FROM THE REAL **WORLD AT SCALE**

- Android app to capture user behavior and location data
- Case study with 160 participants
- Preservation of users' privacy
- Observation of user response to security alerts





#### PREVENTING RISKY BEHAVIOR

- Apply machine learning to mine patterns of risky behavior
- Implement security measures to observe and deter risky behavior

Interested in meeting the PIs? Attach post-it note below!





