

## Motivation

Technologies often collect data about people other than their users.



Quantifying how much technology users **value other people's privacy** will enable us to

- Better understand self-censoring behaviors
- Develop custom privacy enhancing tools
- Design personalized interventions to raise awareness

We are developing a scale to measure valuation of other people's privacy.

# Developing a Psychometric Scale to Measure One's Valuation of Other People's Privacy

## Preliminary results

Current items reflect the following themes

- General privacy value
- Present and past behaviors related to sharing of other people's data
- Opinions regarding norms around privacy

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the abstract with all items.

## Example items with high and low response variability

"Before posting a photo with my friends online, I ask for their permission"



High variability of responses

"I respect other people's privacy"



Bi-modal distribution of the responses

"Everyone has a right to keep their information private"



Skewed responses

The current items

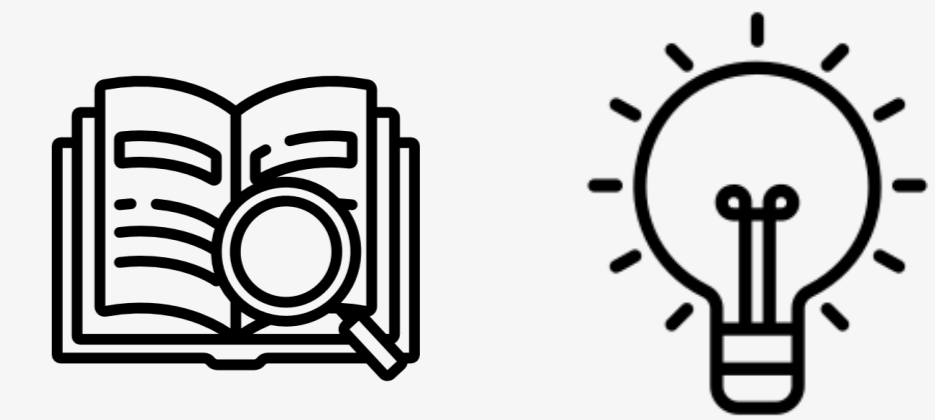
- ✓ Demonstrate high consistency (Cronbach's  $\alpha = 0.91$ )
- ✓ Reverse coded items correlate highly with other items
- ✓ Easily comprehensible to study participants
- ! Most items had high variance in the responses, but not all
- ! Two behavioral items were not applicable to everyone

Next steps

- Revise non-applicable and low-variance items
- Identify factor structure with a larger-sample study

## Item generation methods

Iterative approach consisting of inductive and deductive steps<sup>a</sup>.



Step 1. Literature review and brainstorming to create new items



Step 2. Survey privacy and security scholars



Step 3. Combine and **refine** items



Step 4. Further refinement based on feedback from experts and cognitive walkthroughs with non-experts



Step 5. Crowd sourcing (N=50) to collect response using the final set of **39 items**.

a. Boateng et al. *Best Practices for Developing and Validating Scales for Health, Social, and Behavioral Research: A Primer*