

# SaTC: CORE: Small: Tracking User Behavior, Cognitive Burdens, and the Impact of Behavioral Nudging on Security Updates by Young and Older Adults

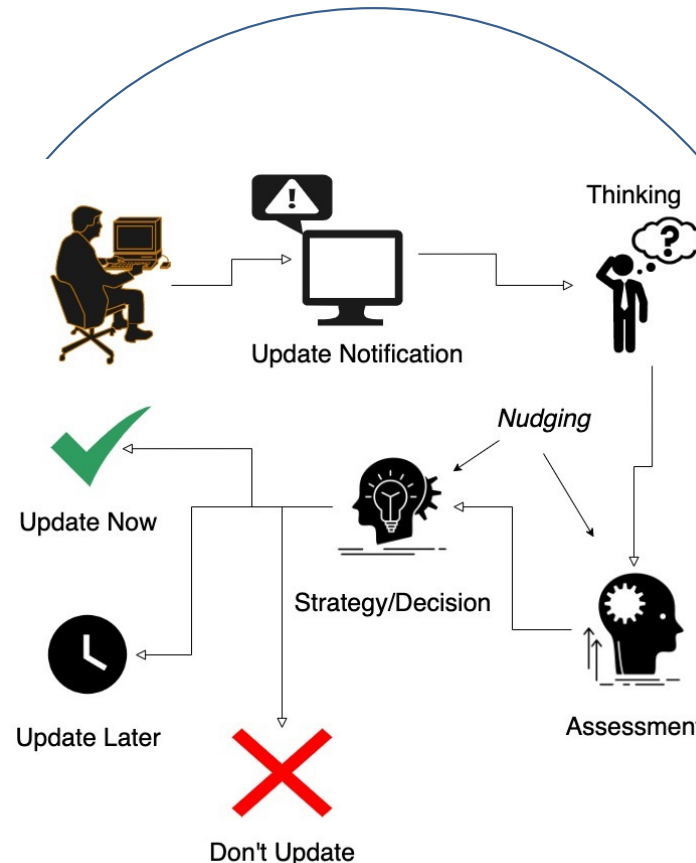


## Challenge:

- Increasing security update compliance among young and older adults and non-expert users
- Developing a theoretical framework of decision-making processes that underlie users' security updating behaviors

## Solution:

- Conduct simulation studies, surveys and behavioral experiments that test the predictions of *Protection Motivation Theory* across age groups, cognitive load conditions, and linguistic framing conditions



## Scientific Impact:

- The project will contribute to both cognitive science and computer science by linking security-related user behaviors to broader theories of decision making and cognitive aging

## Broader Impact/Broader Participation:

- The results of the project will aid in promoting cybersecurity behaviors, particularly among the growing population of older adults
- The project involves diverse students and participants, particularly including African-Americans, Latinx, and females