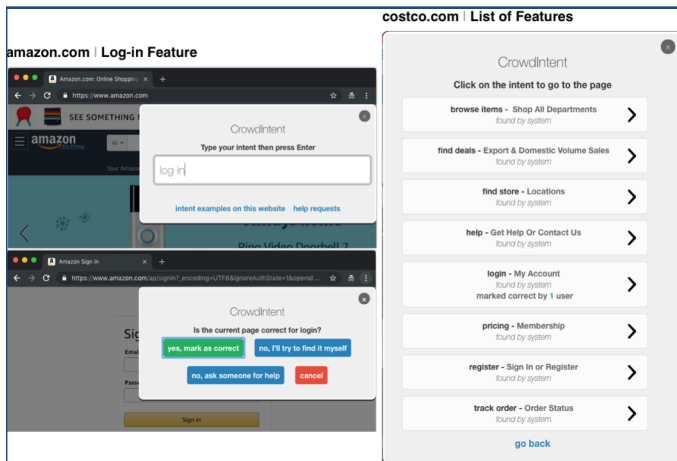


# Inclusive Privacy and Security for People with Visual Impairments (PVI)

PI: Yang Wang, University of Illinois at Urbana-Champaign  
 Collaborators: Drs. Sauvik Das, JooYoung Seo, Gang Wang

## Challenge

- End-user privacy/security tools and services rely on visual content
- It could pose accessibility challenges to PVIs



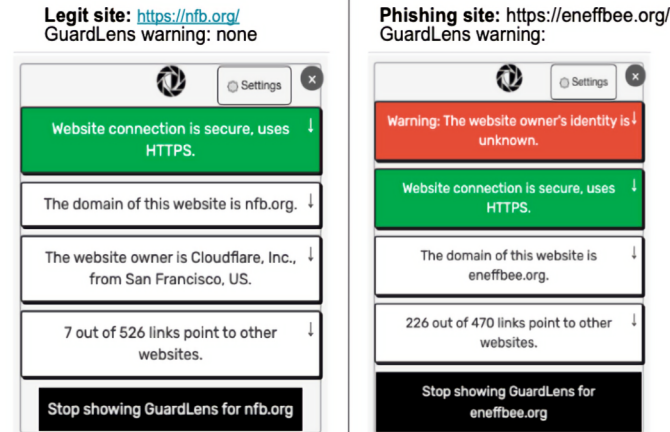
CrowdIntent: enables web task navigation

## Solutions

- WebAly and CrowdIntent tools help PVIs to transfer CAPTCHAs and navigate websites
- GuardLens and related web tools, improves accessibility of privacy/security cues for websites and emails

Award ID: 1652497

## Tools User Interface



GuardLens: access to privacy/security info



WebAly: PVIs can transfer CAPTCHAs

## Project Goal

Improve accessibility of privacy/security tasks online by:

- Making privacy/security cues accessible on websites & emails
- Improving navigation and task performance on websites



**Inclusive Design of email warning: uses audio (bell sound) to notify user and prompt to press shortcut key to expand warning message about email**

## Broader Impact

- Support PVIs to safely browse websites and emails
- Improve navigation and task completion online
- Provide free privacy and security classes and workshops in local communities