

**Brenna Phelps
Research Scientist I
Center for Advanced Communications Policy**

CURRENT FIELDS OF INTEREST:

- **User Centered Design**
- **Assistive Technology**
- **Usability Testing**

I. MASTERY OF A COMPLEX FIELD

L. Key Delivered Products

1. Rapid Acceleration of Diagnostics (RADx)

Sponsor/ To Whom Delivered: National Institutes of Health

Date range for work performed by the candidate: June 2021 – Present

Describe Product: RADx is an initiative to help bring new and existing technologies to help bring COVID-19 testing to the public. The Atlanta center is a collaboration between Emory University, Children’s Healthcare of Atlanta, and Georgia Tech to evaluate these devices. As a part of the Atlanta center, the Georgia Tech HomeLab group evaluated usability.

Candidate’s specific technical contributions: Phelps has assisted in conducting usability evaluations for point of care and home test devices. These evaluations include internal evaluations, observations, and user testing.

2. Name/Title for Key Delivered Product: CEP Home Technology ‘People Power Family App’ Survey Tool Development

Sponsor/ To Whom Delivered: N/A

Date range for work performed by the candidate February 2022 – March 2023

Describe Product: A survey tool was developed to gain feedback and evaluate the usability and usefulness of a third-party smart phone application, shared to Home Technology participants as part of the Safety at Home sub-study, that accompanied one of the smart home technology systems installed in Home Technology Study participant homes.

Candidate’s specific technical contributions: Phelps led development and distribution of the survey tool via participant interviews, as well as data analysis of the survey results.

II. PROJECT LEADERSHIP AND SUPERVISION

A. Leadership in Funded Research

1.	Title:	CEP Home Technology Study
	Sponsor:	Cox Foundation
	P.I.:	Jones, Brian
	Role:	Task Lead

	Amount Funded for Project:	\$40,000,000
	Period of Performance (Project):	4/20/2020 – current
	Contributions:	Phelps led participant management for this study, including recruitment, onboarding, device preparation and installation for over 25 homes, weekly device monitoring, ongoing device maintenance both virtually and in-person, and offboarding. Phelps analyzed participants data and feedback, developed interview tools to evaluate usability of the smart home technology, and contributed to ongoing publication efforts.

I. OUTREACH AND SERVICE

E. Special Activities

1. American Society for Aging (ASA) CACP Homelab, CEP Home Technology presentation and IPaT Aware Home tour “**Integrating Older Adults into Research and Tech at Georgia Tech**”; March 30, 2023.
2. Kimberly Mitchell, Assistant Professor of Graphic Design, University of Tennessee-Knoxville; CACP Homelab, CEP Home Technology presentation and IPaT Aware Home tour “**Integrating Older Adults into Research and Tech at Georgia Tech**”; May 25 2023.