

Brenna Phelps
Research Scientist I
Center for Advanced Communications Policy

EDUCATIONAL BACKGROUND

Degree	Year	University	Field
B.S. Psychology	2021	Kennesaw State University	Psychology

EMPLOYMENT HISTORY

Title	Organization	Years
Research Scientist II	GT CACP	2026 - Present
Research Scientist I	GT CACP	2022 - Present
Tech Temp	GT CACP	2021 - 2022
Student Assistant	GT CACP	2020 - 2021

CURRENT FIELDS OF INTEREST:

- **Human Factors**
- **Usability Testing**
- **User-Centered Design**
- **Accessibility**
- **Assistive Technology/Aging-in-Place**

I. MASTERY OF A COMPLEX FIELD

A. Publications, Presentations, Posters

1. Published Journal Papers

1.1 Atluri, A., Phelps, B., Qin, Y., Cutts, C., Jones, B. (2024). Exploring AI Smart Home Aging-in-Place: Use Cases to Empower Individuals with MCI and Their Carepartners. In: Jay Kalra (eds) *Human Factors in Aging and Special Needs*. AHFE (2024). International Conference. *AHFE Open Access*, vol 133. AHFE International, USA. <http://doi.org/10.54941/ahfe1004888>.

Phelps led creation of the survey tools implemented, oversaw study recruitment and data collection, provided guidance on and contributed to paper writing.

1.2 Beattie, Z.T., Gothard, S., Barnes, L.L., Calloway, S., Gonzales, M.M., Jones, B.D., Kautz, T.F., Levey, A.I., Mathews, J.J., Mulavelil, R., Phelps, B., Rosen, H.J., Rozga, A., Seshadri, S., Staffaroni, A.M., Wasserman, D.K., Wise, A.B. and Kaye, J.A. (2022). The Collaboration and Harmonization of Digital Biomarkers for Alzheimer’s Research. *Alzheimer’s Dement.*, vol. 18, no. S2: e067984, December 2022. <https://doi.org/10.1002/alz.067984>. Phelps acted as a field technician, conducting recruitment, CART installation and management, and data collection for affiliated studies at Emory University’s Cognitive Empowerment Program and Georgia Institute of Technology.

2. Conference Presentations with Proceedings (refereed)

2.1 Kerssens, C., Phelps, B., Jones, B.D., Hackney, M.E., Johnson, T., Nocera, J., Carroll-Sauer, C., and Gupta, R. (2025). Feasibility of a Conversational Agent to Bring Home the STEADI Fall Prevention Algorithm. *Gerontological Society of America*, Boston, Massachusetts.

3. Conference Presentations without Proceedings

3.1 Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Volney, J., Phelps, B., Kim, D., Fain, B. (November 2024). Human Factors 101 [Breakout Session]. Atlanta Center for Engineered Point of Care Technologies (ACME POCT) SuperGLUE: Uniting Point-of-Care Diagnostic Innovators & Clinicians, Atlanta, GA.

3.2 Farmer, S., Peagler, A., Martinez, A., Sheiner, R., Volney, J., Phelps, B., Kim, D., Fain, B. (November 2024). The User Perspective [Breakout Session]. Atlanta Center for Engineered Point of Care Technologies (ACME POCT) SuperGLUE: Uniting Point-of-Care Diagnostic Innovators & Clinicians, Atlanta, GA.

3.3 Jones, B., Phelps, B. (April 2023). TMCity Sleep Study [Poster Presentation]. *GVU Research Showcase*, Atlanta, GA.

3.4 Jones, B., Phelps, B. (April 2023). CEP Home Technology [Poster Presentation]. *GVU Research Showcase*, Atlanta, GA.

4. Submitted Journal Papers in Review

4.1 Peagler, A. F., Razin, V., Phelps, B., Volney, J., Farmer, S., and Sheiner, R. (2025). No Question: Providing Usable Results for Point-of-Care Diagnostics, *Clinical Infectious Diseases*. Manuscript submitted for publication on August 17, 2025.

B. Key Delivered Products

1. **Name:** Survey Instrument: ‘Weekly Home Tech Diary’
Sponsor/ To Whom Delivered: GT/Emory Cognitive Empowerment Program (CEP)
Date range for work performed by the candidate: September 2023-Present
Describe Product: A ‘weekly diary’ survey tool was developed and distributed via Qualtrics to gain insights into home activity levels and other influencing factors that would help contextualize Home Technology Study smart home sensor data. This survey drew from an existing survey tool produced by ORCATECH- their “Home Health Form”- and fitted to the needs of our study.
Candidate’s specific technical contributions: Phelps led development and distribution of the survey tool via virtual participant training.
2. **Name:** Survey Instrument: ‘People Power Family App’ Interview Survey
Sponsor/ To Whom Delivered: GT/Emory Cognitive Empowerment Program (CEP)
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 Study 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.

C. Knowledge Sharing

- 1. CEP Home Technology and TMCity Sleep Study poster presentation. GVVU Center Research Showcase, April 19, 2023. Phelps led creation of the posters and presented their contents to other researchers and students.**
- 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.**
- 3. 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.**

II. TECHNICAL CONTRIBUTIONS AND INNOVATION

A. Research/Technical Reports

- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Razin, V., and Martinez, A. “Co-Dx PCR Flu A, Flu B, COVID-19, and RSV Test: Preliminary Usability Report,” Final, National Institutes of Health, GR00024606, A873129, July 2025, 32 pages.
- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., and Razin, V. “Global Diagnostic Systems: HomeLab Internal Concept Review,” Final, National Institutes of Health, GR00024606, A873129, March 2025, 7 pages.
- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., Volney, J., and Kim, D. “Global Diagnostic Systems: HomeLab Internal Concept Review,” Final, National Institutes of Health, GR00024606, A873129, March 2025, 7 pages.
- Farmer, S., Peagler, A., Sheiner, R., Volney, J., **Phelps, B.**, and Kim, D. “Burst Diagnostics Strep A Test: Internal Concept Review,” Final, National Institutes of Health, GR00024419, A941773, January 2025, 22 pages.
- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., and Kim, D. “PHASE Scientific International Limited INDICAID™: Preliminary Usability Report,” Final, National Institutes of Health, GR00024606, A873129, January 2025, 13 pages.
- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., and Kim, D. “Healgen Heal-Check Rapid COVID-19 + Influenza A/B Antigen Test: Preliminary Usability Report,” Final, National Institutes of Health, GR00024606, A873129, January 2025, 13 pages.
- Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., Volney, J., and Kim, D. “Domus Diagnostics COVID-19, Flu A, Flu B, RSV Multiplex Molecular Testing

- Kit: HomeLab Internal Concept Review,” Final, National Institutes of Health, GR00024606, A873129, November 2024, 12 pages.
8. Farmer, S., Peagler, A., Sheiner, R., **Phelps. B.**, Martinez, A., and Razin, V., “CardieX CONNEQT Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 23 pages.
 9. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., **Phelps. B.**, Kim, D., and Razin, V., “Caretaker VitalStream Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 11 pages.
 10. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., **Phelps. B.**, and Razin, V., “Dionysus Digital Health Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 15 pages.
 11. Farmer, S., Peagler, A., Razin, V., Sheiner, R., **Phelps, B.**, and Martinez, A., “MyLUA Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 14 pages.
 12. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., **Phelps, B.**, and Razin, V., “PyrAmes Bosimi Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 14 pages.
 13. Farmer, S., Phelps, B., Peagler, A., Martinez, A., Sheiner, R., Volney, J., and Razin, V., “Sanguina AnemoCheck Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 11 pages.
 14. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., **Phelps, B.**, and Razin, V., “Sibel ANNE One Usability Report,” Final, National Institutes of Health, GR00027199, A873149, August 2024, 7 pages.
 15. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., **Phelps, B.**, and Kim, D., “Sensible Diagnostics Rapid PCR Platform: Preliminary Usability Report,” Final, National Institutes of Health., GR00024606, A873129, May 2024, 13 pages.
 16. Farmer, S., Peagler, A., Sheiner, R., and **Phelps, B.**, “Xtrava Health- SPERA COVID-19/ Flu A&B Digital Self Test: Internal Concept Review,” Final, National Institutes of Health., GR00024606, A873129, August 2024, 10 pages.
 17. Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Razin, V., and Kim, D. “DiagMetrics Breathe Easy COVID-19 Home Test: Internal Concept Review, Round 2,” Final, National Institutes of Health., GR00024606, A873129, May 2024, 11 pages.
 18. Farmer, S., Peagler, A., Razin, V., Sheiner, R., and **Phelps. B.** “Dionysus Digital Health, Inc. Modible App: Preliminary Usability Report,” Final, National Institutes of Health, GR00027199, A873149, April 2024, 14 pages.
 19. Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, Martinez, A., Egan, J., Kim, D., and Razin, V., “Global Diagnostic Systems insight™ COVID-19 Rapid Home Test:

- Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, March 2024, 17 pages.
20. Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, and Egan, J. “Aegirbio: Internal Concept Review,” Final, National Institutes of Health., GR00020455, A416007, March 2024, 8 pages.
 21. Farmer, S., Peagler, A., Sheiner, R., Razin, V., Martinez, A., and **Phelps, B.**, “Maxim Bio FiarFly COVID & Flu A+B Home Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, March 2024, 17 pages.
 22. Farmer, S., Peagler, A., Razin, V., Sheiner, R., and **Phelps, B.** “MyLUA Web Application: Internal Concept Review,” Final, National Institutes of Health, GR00027199, A873149, February 2024, 10 pages.
 23. Farmer, S., Peagler, A., Razin, V., Sheiner, R., and **Phelps, B.** “CardieX CONNEQT: Internal Concept Review,” Final, National Institutes of Health, GR00027199, A873149, February 2024, 17 pages.
 24. Farmer, S., Peagler, A., Sheiner, R., **Phelps, B.**, and Razin, V. “Prominex: Internal Concept Review,” Final, National Institutes of Health., GR00020455, A416007, February 2024, 8 pages.
 25. Farmer, S., Peagler, A., Sheiner, R., and **Phelps, B.**, “Wondfo WELLlife COVID-19/Influenza A&B Test: Preliminary Usability Report,” Final (version 2), National Institutes of Health., GR00020455, A416007, February 2024, 11 pages.
 26. Farmer, S., Peagler, A., Sheiner, R., and **Phelps, B.**, “Wondfo WELLlife COVID-19/Influenza A&B Test: Preliminary Usability Report,” Final (version 2), National Institutes of Health., GR00020455, A416007, February 2024, 11 pages.
 27. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “OraSure Technologies, Inc. InteliSwab COVID-19 + Flu A & B Antigen Rapid Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, January 2024, 13 pages.
 28. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “LumiQuick Diagnostics, Inc. Quick Profile COVID-19/Influenza A & B Antigen Combo Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, January 2024, 11 pages.
 29. Farmer, S., Peagler, A., Sheiner, R., and **Phelps, B.**, “Cubit_{dx} COVID-19/Flu A + Flu B Home Test: Internal Concept Review,” Final, National Institutes of Health., GR00020455, A416007, December 2023, 9 pages.
 30. Farmer, S., Peagler, A., Sheiner, R., and **Phelps, B.**, “DiagMetrics Breathe Easy COVID-19 Home Test: Internal Concept Review,” Final, National Institutes of Health., GR00020455, A416007, December 2023, 10 pages.

31. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “GenBody Influenza/COVID-19 Ag Triple Home Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, December 2023, 13 pages.
32. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “AccessBio CareSuperb COVID-19/Flu A&B/RSV Antigen Combo Home Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, December 2023, 13 pages.
33. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “iHealth COVID-19/Flu A&B Rapid Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, November 2023, 13 pages.
34. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “Wondfo WELLife COVID-19Influenza A&B Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, November 2023, 14 pages.
35. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “Mologic Usability Evaluation,” Final, National Institutes of Health., GR00020455, A416007, November 2023, 9 pages.
36. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., and **Phelps, B.** “AnemoCheck: Internal Concept Review,” Final, National Institutes of Health, GR00027199, A873149, October 2023, 11 pages.
37. Farmer, S., Peagler, A., Martinez, A., Sheiner, R., and **Phelps, B.** “PyrAmes Bosimi Band and App: Internal Concept Review,” Final, National Institutes of Health, GR00027199, A873149, October 2023, 9 pages.
38. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “Healgen Heal-Check Rapid COVID-19 + Influenza A/B Antigen Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, October 2023, 14 pages.
39. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, “Aptitude Metrix Reader: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, September 2023, 16 pages.
40. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “Azure Biotech, Inc. FaStep COVID-19 Antigen Pen Home Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, September 2023, 12 pages.
41. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “Azure Biotech, Inc. FaStep COVID-19 Antigen Pen Home Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, August 2023, 12 pages.
42. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “Osang Healthcare OHC COVID-19/Flu Antigen Test: Preliminary Usability

Report,” Final, National Institutes of Health., GR00020455, A416007, August 2023, 15 pages.

43. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “QuidelOrtho QuickVue At Home COVID-19 and Flu Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, August 2023, 13 pages.

44. Farmer, S., Peagler, A., Sheiner, R., Martinez, A., and **Phelps, B.**, and Lucente, M., “QuidelOrtho QuickVue At Home COVID-19 and Flu Test: Preliminary Usability Report,” Final, National Institutes of Health., GR00020455, A416007, July 2023, 14 pages.

III. PROJECT LEADERSHIP AND SUPERVISION

A. Leadership in Funded Research

1. Externally Sponsored Programs for which the Candidate Served in a Leadership Role

1.	Title:	RADx Innovation Funnel for HIV Diagnostics -- Validation Center
	Contract Number:	AWD-006431 / GR00028964
	Sponsor:	Emory University (sub)/National Institutes of Health (prime)
	P.I.:	Sarah Farmer
	Candidate’s Role:	Task Lead
	Budgetary Authority:	No
	Amount Funded for Project:	\$95k
	Number and Rank of Persons Supervised:	1 RSI
	Period of Performance (Project):	05/28/2024 – 05/27/2026
	Period of Performance (Candidate):	05/01/2025 – Present
	Contributions:	Phelps is a task lead for this project and led data collection and reporting.

2.	Title:	ACME POCT Innovation Funnel Validation Center
	Contract Number:	AWD-006030 / GR00027199
	Sponsor:	Emory University (sub)/National Institutes of Health (prime)
	P.I.:	Sarah Farmer
	Candidate’s Role:	Task Lead
	Budgetary Authority:	No
	Amount Funded for Project:	\$398k
	Number and Rank of Persons Supervised:	1 RSI
	Period of Performance	09/01/2022 – 12/31/2025

	(Project):	
	Period of Performance (Candidate):	010/01/2023 – Present
	Contributions:	Phelps is a task lead for this project and led data collection and reporting.

3.	Title:	OneClick Phase 2 RCT: Enhancing Social Engagement through Online Gameplay for Older Adults with and without Mild Cognitive Impairment
	Contract Number:	AWD-003971
	Sponsor:	Oneclick.Chat
	P.I.:	Maribeth Gandy Coleman
	Candidate's Role:	Task Lead
	Budgetary Authority:	No
	Amount Funded for Project:	\$574k
	Number and Rank of Persons Supervised:	2 (1 RSI, 1 RSII)
	Period of Performance (Project):	7/1/2024 – 3/31/2026
	Period of Performance (Candidate):	7/1/2024 – Present
	Contributions:	Phelps is a task lead for several tasks under this project. She created the participant onboarding protocol and led trainings for her researcher colleagues covering onboarding and screening.

4.	Title:	Innovation Funnel for COVID-19 – Validation Center
	Contract Number:	AWD-005363 / GR00024606
	Sponsor:	Emory University (sub)/National Institutes of Health (prime)
	P.I.:	Eric Vogel
	Candidate's Role:	Task Lead
	Budgetary Authority:	No
	Amount Funded for Project:	\$5M
	Number and Rank of Persons Supervised:	N/A
	Period of Performance (Project):	03/27/2023 – 03/26/2026
	Period of Performance (Candidate):	09/01/2023 – Present
	Contributions:	Phelps is a task lead for this project and led data collection and reporting.

5.	Title:	Atlanta Center for Microsystems Engineered POC Technologies (ACME POCT)
	Contract Number:	AWD-005405 / GR00024603
	Sponsor:	Emory University (sub)/National Institutes of Health (prime)
	P.I.:	Eric Vogel

	Candidate's Role:	Task Lead
	Budgetary Authority:	No
	Amount Funded for Project:	\$363k
	Number and Rank of Persons Supervised:	3 (1 RSI, 1RSII, 1 SRE)
	Period of Performance (Project):	10/06/2023 – 07/31/2028
	Period of Performance (Candidate):	12/20/2024 – Present
	Contributions:	Phelps is a task lead for this project and led data collection and reporting.

6.	Title:	AI-Caring
	Contract Number:	AWD- 002623 / GR00025335
	Sponsor:	NSF
	P.I.:	Fain, Brad
	Candidate's Role:	Task Lead
	Budgetary Authority:	Yes
	Amount Funded for Project:	\$89k
	Number and Rank of Persons Supervised:	6 (1 RA, 4 GRAs, 1 RSI)
	Period of Performance (Project):	9/1/2023 – 8/31/2028
	Period of Performance (Candidate):	1/1/2024 – 12/5/2024
	Contributions:	Phelps was a task lead for the Home Technology initiative and oversaw the transition, maintenance, and conclusion of Home Tech studies following transition from the CEP.

7.	Title:	Implementing and Scaling the STEADI Fall Prevention Algorithm Using a Conversational Relational Agent for Community-Dwelling Older Adults with and without Mild Cognitive Impairment (MCI)
	Contract Number:	AWD-006029
	Sponsor:	NIA
	P.I.:	Chantal Kerssens
	Candidate's Role:	Task Lead
	Budgetary Authority:	Yes
	Amount Funded for Project:	\$83k
	Number and Rank of Persons Supervised:	1 RA
	Period of Performance (Project):	9/1/2023 – 6/30/2025
	Period of Performance (Candidate):	9/1/2023 – 6/30/2025
	Contributions:	Phelps was a task lead for this project and led recruitment, participant sessions, training sessions of other researchers, data collection and reporting.

8.	Title:	RADx Supplement
	Contract Number:	AWD-004567 / GR00020455
	Sponsor:	Emory University (sub)/National Institutes of Health (prime)
	P.I.:	Sarah Farmer
	Candidate's Role:	Task Lead
	Budgetary Authority?	No
	Amount Funded for Project:	\$1M
	Number and Rank of Persons Supervised:	N/A
	Period of Performance (Project):	12/09/2022 – 5/31/2025
	Period of Performance (Candidate):	2/1/2023 – 5/31/2025
	Contributions:	Phelps conducted usability and accessibility evaluations for point of care and home test devices. These evaluations include internal evaluations, observations, user testing, and reporting.

9.	Title:	Cognitive Empowerment Program (CEP)
	Contract Number:	AWD-102675 / GR00001616
	Sponsor:	Cox Foundation
	P.I.:	Jones, Brian
	Candidate's Role:	Task Lead
	Budgetary Authority:	Yes
	Amount Funded for Project:	\$40M
	Number and Rank of Persons Supervised:	8 (1 RA, 6 GRAs, 1 RSI)
	Period of Performance (Project):	10/1/2018 – 12/31/2024
	Period of Performance (Candidate):	4/20/2020 – 12/31/2024
	Contributions:	Phelps was a task lead for the Home Technology initiative and led recruitment, participant sessions, data collection and reporting for all studies.

B. Additional Supervisory Responsibilities

Phelps led training of multiple students and colleagues to support the CEP Home Technology studies, overseeing participant home system setup, deployment, management, and troubleshooting over the course of the project. Phelps has led fellow researchers, project teams, and stakeholder correspondence in support of Atlanta Center for Microsystems-Engineered Point of Care Technologies projects.

IV. SPONSORED PROGRAM DEVELOPMENT

A. Research Program Development

Phelps has contributed to the maintenance of Georgia Tech's HomeLab research initiative, which consists of a network of 400+ research participants as well as the

associated infrastructure needed to administer, manage, design, and execute both small- and large-scale user research studies. Phelps has led the redesign of HomeLab’s induction protocol, streamlining the participant recruitment process in order to support expansion beyond its’ initial older adult-focused population into a larger sample pool that encompasses multiple diverse populations. Phelps has been instrumental in updating HomeLab’s website, an ongoing project aimed at overhauling the format and content of the site to better convey the work of HomeLab, the impact on the community, and the opportunity for research collaboration, both for future participants and clients. Phelps has also led development of best practices guidance documents focused on inclusive demographic survey creation, and digital components- and their common issues- to support the HomeLab team in staying up-to-date and knowledgeable in their work.

Phelps contributed to the growth and maintenance of the Home Technology initiative housed within Emory University’s Cognitive Empowerment Program Tech Core. This initiative was comprised of multiple projects longitudinally exploring the capabilities of AI-based smart home technology and systems to provide tailored interventions that support aging-in-place outcomes for individuals with Mild Cognitive Impairment (MCI) and their Carepartners in their homes. Phelps led end-to-end management of system and participant operations across more than 25 homes over the course of four years.

V. OUTREACH AND SERVICE

A. Professional Development

- 1. Certificate in User Experience from Nielson Norman Group**
- 2. Group 2 Social / Behavioral Research Investigators and Key Personnel certificate from the Collaborative Institutional Training Initiative (CITI) Program**
- 3. Good Clinical Practice certificate from the Collaborative Institutional Training Initiative (CITI) Program**
- 4. Attended ACME POCT GLUE lecture: “The Next Generation of Lateral Flow Assays: Integration of Nanomaterials”, 2024**
- 5. Attended Emory University’s CEP workshop: “Workshop on Lifestyle Interventions for Better Sleep with MCI”, 2023**

B. On-campus Committees

- 1. Member, Hiring Committee for new Research Technologist I, CACP, 2023-2024**