Christina N. Harrington, Ph.D.

Assistant Professor, Human-Computer Interaction Institute
School of Computer Science, Carnegie Mellon University

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Google Scholar

EDUCATION

Georgia Institute of Technology, Atlanta, GA   2017
Ph.D. in Accessible Interaction Design; Minor in Human Factors and Aging

North Carolina State University, Raleigh, NC   2013
Master of Industrial Design

Virginia Polytechnic Institute & State University, Blacksburg, VA   2009
B.S. Electrical Engineering; Minor: Industrial Design

ACADEMIC POSITIONS

Visiting Faculty Researcher, Google March –October 2022
Responsible AI Human Centered Technology UX team focused on equitable ASR.

Assistant Professor, Carnegie Mellon University 07/2021 – present
School of Computer Science - Human-Computer Interaction Institute; School of Design (Courtesy Appointment)
Director, Equity and Health Innovations Design Research Lab

Assistant Professor, DePaul University July 2019- June 2021
College of Computing & Digital Media - School of Design
Director, Equity and Health Innovations Design Research Lab

Postdoctoral Research Fellow, Northwestern University Dec 2017 – June 2019
Inclusive Technology Lab, School of Communication Studies

FELLOWSHIPS

Data & Society Faculty Research Fellowship	2022-2023
Center for Democracy and Technology Fellowship (Non-Resident Fellowship)	2022-2024
Encore Public Voices Fellowship	2019-2020

Op-ed fellowship focused on aging and social justice. 2nd cohort; 1 of 21 fellows

GRANTS & FUNDING

Google Award for Inclusive Research: Oct. 2022
"*Transforming theory into practice: eliciting cultural imaginaries and design thinking to understand Black-Centered Design*" ($60,000 unrestricted gift) *Selected as one of 40 proposals. *Role:* **Co-PI**

Google Award for Inclusive Research: Oct. 2021
"Establishing a Speculative Design Toolkit to Support Technology Futuring among Marginalized Communities"
($60,000 unrestricted gift) *Selected as one of 21 proposals among 100+ applicants. *Role*: **PI**

DePaul Public Service Council Community-Engaged Research Grant   March 2021
"*Developing Health Data Videos to Address Digital Health Literacy Among Marginalized Groups*" ($5,000 internal)
Internal grant to create community-driven informational health videos to address digital health literacy. *Role*: **PI**

Google Award for Inclusive Research: Oct. 2020
"Speculative Design Methods as an Inclusive Approach to Improve Tech Skills/Literacy" ($30,000 unrestricted gift)
*Selected as one of 17 proposals among 100+ applicants. *Role*: **Co-PI** with T. Dillahunt at University of Michigan

Office of Behavioral and Social Science Research (Nat'nl Institutes of Nursing Research)   Apr. 2020
T32 Admin Supplement: *Equity Design Thinking Preparing Scientists to Design Health Tech for Equity and Inclusion* Budget Period: 07/06/2020 to 06/30/2020 *Role*: **Affiliated Faculty and Advisory Board Member**

MCUAAAR Research Scientist Junior Faculty Training Grant.   March 2020
Designing Health-Related Conversational Assistants for Health-Information Seeking Among Low-Income African American Older Adults. One of three scientists for a research training grant awarded through The Michigan Center for Urban African American Aging Research (supported by a grant from the National Institute on Aging, National Institutes of Health) ($25,000 total costs). *Role:* **PI**

Herman Bouma Fund for Gerontechnology Grant (€800)   2018

Supplement to CREATE IV [P01 AG17211-17S2]   2016
Research Supplement to Promote Diversity in Health-Related Research from the NIH/NIA ($44,588 direct; $60,032 total costs). **Grant proposal co-written** with PI Wendy A. Rogers

HFES Aging Technical Group Research Scholarship ($500)   2015
Title: Evaluating effective formats of a quick-start guide to aid older adults in performing gesture-based interactions.

TECHNOLOGY TRANSFER
NCSU File 14-031: Comfort Vest: Reinforced Vest for Aircraft Wing Mechanics and other Enclosed Area Access.

RESEARCH EXPERIENCE
Northwestern University, Inclusive Technology Lab, Evanston, IL   Dec. 2017 – July 2019
Postdoctoral Research Fellow - Examined technology design for health disparities among Black older adults. Interview studies, community-based participatory design workshops and feasibility studies.

Georgia Tech, Human Factors and Aging Lab, Atlanta, GA   July 2014 – Nov. 2017
Graduate Research Assistant - Designed and tested functional prototypes of household consumer products for people with disabilities. Planned and executed ethnographic field work and usability studies.

Care Foundation Marga Klompe Research Exchange Program, Holland   May 2014 – July 2014
Research Exchange Student - Interviews and comparative analysis of accessibility of living environments in Dutch assisted living environments.

Georgia Tech Research Institute, Human Systems Integration Lab, Atlanta, GA   Aug. 2013 – May 2014
Graduate Research Assistant - Consumer Product Integration Lab

Research Assistant Intern, **RL Mace Universal Design Institute**, Chapel Hill, NC   Aug. 2012 – Feb. 2013

Research in Ergonomics and Design Lab, NCSU College of Design, Raleigh, NC   Jan. 2011 – May 2013
Graduate Research Assistant - U.S. Department of Defense, Defense Subcontract

University of Virginia Systems Integration Lab, Charlottesville, VA   May 2011 – Aug. 2011
Graduate Research Assistant- National Library of Medicine Short-Term Trainee

PUBLICATIONS & PRESENTATIONS (*for complete publications please see Google Scholar*)

BOOK CHAPTERS
BC.1   **Harrington, C.**, Koon, L., Rogers, W. A. (2020). Designing Information and Communication Technologies to Support Healthcare Needs of Older Adults. In *Handbook of Human Factors in Healthcare Design.*

JOURNAL ARTICLES
J.6   Moorhead, J.B., Herbert, B.M., Abebe, K.Z., **Harrington, C.N.**, Miller, E., Lindau, S.T., Magnani, J.W., Johnson, A.E. (2022). *Internet access and cardiovascular death in the United States.* American Heart Journal Plus: Cardiology Research and Practice. https://doi.org/10.1016/j.ahjo.2022.100200.

J.5   Ostrowski, A. K., **Harrington, C. N.**, Breazeal, C., Park, H. W. (2021). *Personal Narratives in Technology Design: The Value of Sharing Older Adults' Stories in the Design of Social Robots.* Front. Robot. AI 8:716581. doi: 10.3389/frobt.2021.716581

J.4   **Harrington, C.N.,** Erete, S., Piper, A.M. (2019). *Deconstructing Community-Based Collaborative Design: Towards More Equitable Participatory Design Engagements.* In Proc. of the ACM HCI. Presented at Conf. on Computer Supported Collaborative Work, 3, CSCW, Article 216 (Nov. 2019), 23 pages. Austin, TX. https://doi.org/10.1145/3359318 **BEST PAPER** **acceptance rate: 24%*

J.3   Ruzic, L., **Harrington, C. N.**, Sanford, J. A. (2017). *Universal design mobile interface guidelines for mobile health and wellness apps for an aging population including people aging with disabilities.* International Journal on Advances in Software, 10(3&4), pp. 372-384.

J.2   Barg-Walkow, L. H., **Harrington, C. N.**, Mitzner, T. L., Hartley, J. Q., Rogers, W. A. (2017). *Understanding older adults' perceptions of and attitudes toward exergames.* In Gerontechnology, 16(2), pp. 81-90.

J.1   **Harrington, C.**, Mitzner, T. L., Rogers, W. A. (2015). *Understanding the role of technology for meeting the support needs of older adults in the USA with functional limitations.* In Gerontechnology, 14(1), pp 21-31.

CONFERENCE PROCEEDINGS *heavily peer reviewed – In HCI conference proceedings are respected as journal articles

C.21   Jelen, B., Lazar, A., **Harrington, C.N.**, Pradhan, A., Siek, K.A. (to appear). Speaking from Experience: Co-designing E-textile Projects with Older Adult Fiber Crafters. In *Proc of 17th Internaional Conference on Tangible, Embedded, and Embodied Interaction* (TEI 2023). doi *acceptance rate: 23%*

C.20   Bosley, B., **Harrington, C.N.,** Morris, S., Le Dantec, C. (2022). Healing Justice: A Framework for Personal or Collective Healing and Well-being from (System)ic Traumas. In *Proc. of the 2022 ACM Designing Interactive Systems Conference* (DIS '22). ACM, NY. doi **BEST PAPER HONORABLE MENTION** *acceptance rate: 21%*

C.19   **Harrington, C.N.**, Martin-Hammond, A., Bray, K. (2022). Exploring Identitiy as a Variable of Health Technology Research for Older Adults: A Systematic Review. In *Proc. of the 2022 ACM Conference on Human Factors in Computing Systems* (CHI 2022). *acceptance rate: 24.7%*

C.18   Bray, K., **Harrington, C.N.,** Parker, A., Diakhate, N., Roberts, J. (2022). Radical Futures: Supporting Community-Led Design Engagements through an Afrofuturist Speculative Design Toolkit. In *Proc. of the 2022 ACM Conference on Human Factors in Computing Systems* (CHI 2022). *acceptance rate: 24.7%*

C.17   **Harrington, C.N.**, Garg, R., Woodward, A., Williams, D. (2022). "It's Kind of Like Code-Switching": Black Older Adults' Experiences with a Voice Assistant for Health Information Seeking. In *Proc. of the 2022 ACM Conference on Human Factors in Computing Systems* (CHI 2022). **BEST PAPER** *acceptance rate: 24.7%*

C.16   **Harrington, C.N.**, Klassen, S., Rankin, Y.A. (2022). "All that You Touch, You Change": Expanding the Canon of Speculative Design Towards Black Futuring. In *Proc. of the 2022 ACM Conference on Human Factors in Computing Systems* (CHI 2022). **HONORABLE MENTION** *acceptance rate: 24.7%*

C.15   Bray, K., **Harrington, C.N.** (2021). Speculative Blackness: Considering Afrofuturism in the Creation of Inclusive Speculative Design Probes. In *Proc. of the 2021 ACM Designing Interactive Systems Conference* (DIS '21). ACM, NY, NY. *acceptance rate: 26%*

C.14   **Harrington, C. N.**, Dillahunt, T. (2021). Eliciting Tech Futures from the Margins: A Case Study of CollaborativeSpeculative Design Fictions. In *Proc. of the ACM Conference on Human Factors in Computing Systems* (CHI 2021). doi *acceptance rate: 26%*

C.13   **Harrington, C.N.,** Borgos-Rodriguez, K., Piper, A.M. (2019). Engaging Low-Income African Americans in Health Discussions through Community-based Design Workshops. In *Proc. of the ACM Conference on Human Factors in Computing Systems* (CHI 2019). Glasgow, UK. doi *acceptance rate: 24%*

C.12   **Harrington, C.N.,** Wilcox, L. Connelly, K., Rogers, W.A., Sanford, J. (2018). Designing Health and Fitness Apps with Older Adults: Examining the Value of Experience-Based Co-Design. In *Proc. of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare*, NY.

C.11   **Harrington, C. N.**, Hare, K. J., & Rogers, W. A. (2017, October). Developing a Quick-Start Guide to Aid Older Adults in Interacting with Gesture-Based Video Games. In *Proc. of the 2017 Human Factors and Ergonomics Society Annual Meeting*, Austin, TX.

C.10   Wagner, B., Liu, E., Shaw, S., Iakovlev, G., Zhou, L., **Harrington, C.**, Abowd, G., Yoon, C., Kumar, S., Murphy, S., Spring, B. & Nahum- Shani, I. (2017, September). ewrapper: Operationalizing engagement strategies in mHealth. UbiComp 2017. In *Proc. of the 2017 ACM International Joint Conference on Pervasive & Ubiquitous Computing* and *Symp. on Wearable Computers* (pp. 790-798).

C.9   **Harrington, C. N.**, Ruzic, L., & Sanford, J.A. (2017, July). Universally Accessible mHealth Apps for Older Adults: Towards increasing adoption and sustained engagement. In *International Conference on Universal Access in Human-Computer Interaction* (pp. 3-12). Springer International Publishing. Proc. of HCI International 2017.

C.8   Ruzic, L., **Harrington, C. N.,** Sanford, J.A. (2017). Design and Evaluation of Mobile Interfaces for an Aging Population. In *Proc. of the 10th International Conference on Advances in Computer-Human Interactions*, Nice, France, pp. 305-309.

C.7   Liu, Y. E., **Harrington, C.**, Melgen, S., & Sanford, J. (2016, July). GatePal–Universal Design for Airport Navigation to Allow Departing Travelers to Stay Informed. In *International Conference on Universal Access in Human-Computer Interaction* (pp. 586-594). Springer International Publishing.

C.6   **Harrington, C. N.**, Hartley, J. Q., Mitzner, T. L., & Rogers, W. A. (2015). Assessing Older Adults' Usability Challenges Using Kinect-based Exergames. In *Human Aspects of IT for the Aged Population. Design for Everyday Life* (pp. 488-499). Springer Int. Publishing. Proc. of HCI International 2015.

C.5   Fausset, C., Baranak, A., Farmer, S. K., Mann, E. L., **Harrington, C. N.**, Price, C. E., Ray, J. (2014). Developing a Scoring Matrix to Evaluate Consumer Packaging: A Pilot Study. *Proc. of the HFES 58th Annual Meeting*, Chicago, IL.

C.4   O'Brien, M., Fausset, C., Mann, E. L., **Harrington, C.**, (2014). Using Impairment Simulation Tools to Demonstrate Age-Related Challenges in Everyday Tasks and Promote Universal Design. In *Proc. of the HFES 58th Annual Meeting*, Chicago, IL.

C.3   **Harrington, C.**, Brown, M., Wang, L., Joines, S., (2013). Self-Reporting of Firefighter Vital Signs in Emergency Situations. *Proc. of the HFES 57th Annual Meeting*, San Diego, CA, pp. 1678-1682.

C.2   **Harrington, C.**, Cowley, J., Taylor, J., Wogalter, M., (2013). Assessing Conceptualizations of User Friendliness for Consumer Products. *Proc. of the HFES 57th Meeting*, San Diego, CA, pp. 1338-1342.

C.1   **Harrington, C.**, Joines, S. (2011). Assessing User Experience with Crutch Use: A Review of Literature. *Proc. of the HFES 55th Annual Meeting*, Las Vegas, NV, pp. 1658-1662.

LIGHTLY REVIEWED HCI ARTICLES

LRA.6   **Harrington, C.,** Rosner, D., Taylor, A., & Wiberg, M. (2021). Engaging Race in HCI. *Interactions, 28*(5), 1-5.

LRA.5   **Harrington, C.N.,** Smith, A.D.R., Ford, D., Johnson, B. (2021). Dialogue: Designing for the Black Experience. In *Interactions, 28*(5), 22-27.

LRA.4   **Harrington, C.N.** (2020, May). The Forgotten Margins: What is Community-Based Participatory Health Design Telling Us? In *Interactions, 27, 3 (May-June 2020), 24-29*. [**Issue Cover Story for the largest bi-monthly publication targeting the computing community.**]

LRA.3   Tawanna Dillahunt and **Christina N. Harrington** (2020). Eliciting Speculative Design Fictions from the Margins. Presented at 'Understanding the Past, Present, and Future of Design Fictions'.   In *Proc. of the ACM Conf. on Human Factors in Computing Systems* (CHI 2020). *held virtually

LRA.2   Marcu, G., Caro, K., Maestre, J. F., Connelly, K. H., Brewer, R., **Harrington, C. N.** (2019). Strategies for Inclusion in the Design of Pervasive Computing for Health and Wellbeing. In *IEEE Pervasive Computing*, 18(1), pp. 89-93. DOI: 10.1109/MPRV.2019.2898485

LRA.1   **Christina N. Harrington** and Anne Marie Piper. (2018). Informing Design through Sociocultural Values: Co-Creation with Low-Income African American Older Adults. In Proc. of the 12th EAI International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth '18). Association for Computing Machinery, New York, NY, USA, 294–298. https://doi.org/10.1145/3240925.3240966

PUBLIC ZINES, TOOLKITS, GUIDES, & DESIGN ARTIFACTS

1. The Denizen Designer Zine (2020) – publicly available zine about community-based design and community engagement. A part of The Denizen Designer Project.
2. Building Utopia Toolkit (2022). Building Utopia toolkit is an Afrofuturist speculative design toolkit. Toolkit features card decks and guides to support speculative futuring and reimagining among historically marginalized groups. This project was in collaboration with Black Womxn Flourish and the Colored Girls Liberation Lab.

TECHNICAL REPORTS & WHITE PAPERS

R.4   Favela, P., Bray, K., Ijagbone, I., Froehlich, C., White, K., **Harrington, C.N.** (2021). The Denizen Designer Report. School of Design, DePaul University.

R.3   **Harrington C.**, Jelen B., Lazar A., Martin-Hammond A., Pradhan A., Reeder B., and Siek K. (2021). Taking Stock of the Present and Future of Smart Technologies for Older Adults and Caregivers. Computing Community Consortium. Available at https://cra.org/ccc/resources/ccc-led-whitepapers/#2020-quadrennial-papers

R.2   Gable, T. M., McGlynn, S., Chen, D., Preusse, K., Yoo, A., Darling, C., Kazi, S., Schaeffer, L., & **Harrington, C.** (2015). A Comprehensive web-based solution for future voting: (GT-HFES-TR-2015-01). Atlanta, GA: Georgia Institute of Technology, Georgia Tech HFES Student Chapter.

R.1   **Harrington, C.**, Rogers, W., (2014). An Archival Analysis of Everyday Task Challenges for Aging Adults with Disabilities (HFA-TR-1403). Atlanta, GA: Georgia Institute of Technology, School of Psychology, Human Factors and Aging Laboratory.

MAGAZINE, OPED, ESSAY, & BLOG PUBLICATIONS (REFFEREED)

M.7   **Harrington, C.N.** (2021, May). Maybe Grassroots Collectivism is How We Expand Access to Design. Published in IDSA Innovation Magazine.

M.6   **Harrington, C.N.,** Rankin, Y., Jones, J., Brewer, R., Erete, S., Dillahunt, T., Brown, Q. (2020, June). A Call to Action for the ACM. Published on the *Interactions* blog**.**

M.5   **Harrington, C.N.** (2020, April 3). Poor, Older, Black Americans Are an Afterthought in the COVID-19 Crisis. Published at NextAvenue.org a national journalism service for America's booming older population.

M.4   **Harrington, C.N.** (2020, March 18). Digital Access Has Now Become a Public Health Concern. Published at MorningConsult.com.

M.3   **Harrington, C.N.** (2019, September). *Towards Equitable Design When We Design with Marginalized Communities*. Medium. Published in the CSCW Blog. Find the blog post here.

M.2   **Harrington, C. N.** (2019, September). Envisioning Intentional Spaces for Collectivism in Design. In *Recognize: A Design Anthology*. 1 of 5 essays accepted for the first volume of a design anthology that recognizes the voices of indigenous and people of color designers.

M.1   **Harrington, C. N.** (2018, October). Computer Scientists in Action. In XRDS Crossroads: ACM Magazine for Students. 25, 1. Pp. 62-63.

ORGANIZED WORKSHOPS, PANELS, & SESSIONS (REFFEREED)

W.11   Sum, C.M., Alharbi, R., Spektor, F., Bennett, C.L., **Harrington, C.N.**, Spiel, K., Williams, R.M. (2022). *Dreaming Disability Justice in HCI*. Workshop to be held at the 2022 Conference on Human Factors in Computing Systems (CHI '22). New Orleans, LA.

W.10   Burge, J., Dillahunt, T.R., **Harrington, C.N.**, Rankin, Y.A., Smith, A. D. R., Thomas, J. (Oct 2020). *Anti-Racism in Design*. Panel held at Computer-Supported Collaborative Work (CSCW) 2020.

W.9   D'Ignazio, C., Graeff, E., **Harrington, C.N.**, Rosner, D. K. (2020, Oct.). *Toward Equitable Participatory Design: Data Feminism for CSCW amidst Multiple Pandemics*. Workshop held at Computer-Supported Collaborative Work (CSCW) 2020. Virtual.

W.8   Design Justice Network (July 2020). *DJN Network Gathering*. Held at the Allied Media Conference 2020. *member of Network Gathering Planning committee

W.7   Martin-Hammond, A., **Harrington, C. N**., Marcu, G. (2020, May). *COLLAB: Engaging Community and Clinical Partners in Collaborative Healthcare Design Research*. PervasiveHealth 2020, Atlanta, GA. *cancelled due to COVID19

W.6   Braswell, K., Burge, J., Erete, S., **Harrington, C.** (2020, March). *For Us, By Us: Resources for Computing Outreach Programs Designed by People of Color*. Birds of a Feather Workshop held at ACM Special Interest Group on Computer Science Education (SIGCSE). Portland, OR.

W.5   Spotlight on Black Designers Panel (2020, February). Panel organized and moderated as a part of DePaul University's School of Design Speaker Series in collaboration with Illinois Institute of Technology's Institute of Design, Chicago, IL.

W.4   Asad, M., Dombrowski, L., Costanza-Chock, S., Erete, S., **Harrington, C.** (2019, June). *Academic Accomplices: Practical Strategies for Research Justice*. Workshop held at the SIGCHI Designing Interactive Systems. San Diego, CA.

W.3   **Harrington, C.**, Dillahunt, T., Smith, A., Erete, S., Rankin, Y. (2019, April). *Ethically-Responsible Research Methods in Computing*. BlackComputeHer Conference, Washington, DC.

W.2   Clifford, G., Taylor, H., Akintobi, T., Francis, S., **Harrington, C. N.** (2017, November). *Health Tech Day*. 2017 AUC Community Engagement Day, Atlanta, GA.

W.1   **Harrington, C.**, Bruce, C. (2015, November). *Accessibility in HCI: Accessible Design Hackathon*. Workshop at 2015 Southeast Women in Computing Conference, Atlanta, GA.

INVITED KEYNOTES, TALKS, & PRESENTATIONS

T.29   *Seeing Us in Design*. Keynote Talk for **IDSA's International Design Conference**. September 2022. Seattle, WA.

T.28   Women Talk Design Speaker Stories: Christina Harrington. September 2022.

T.27   *Freedom Dreams: Imagining Inclusive Technology Futures through Co-Design with Black Americans.* <u>Microsoft's Race and Technology: A Research Lecture Series</u>. May 2022.

T.26   *Examining Cultural Identity as a Component of Equitable Health Technologies.* **Start with One – Google Speaker Series at Clemson University**. March 18, 2022.

T.25   *Afrofuturism and Speculative Design.* Lightening Talk presentation. **The State of Black Design, Texas State University**. Virtual presentation. March 6th, 2022.

T.24   *Addressing Relationality in Community Engaged Design Research.* "Can Research be Revolution" speaker series. **School of Communication and Information**, **Rutgers University**. March 1, 2022.

T.23   Invited speaker at Ida B. Wells Just Data Lab. **Department of African American Studies, Princeton University** February 21, 2022.

T.22   *Community-Based Design Practices for Health Equity.* <u>The Meg and Sam Flax Speaker Series in Public Policy.</u> **School of Public Policy, Georgia Tech**, Atlanta, GA. April 1, 2021.

T.21   *Exploring Technology Co-Design from a Lens of Critical Design.* Invited public lecture for <u>**TU Wien** Informatics Group's Critical Perspectives on Technology Lecture Series</u>. March 25, 2021.

T.20   *The Future is Collectivism: Exploring Technology Co-Design from a Lens of Critical Design.* Invited as speaker for <u>GVU Center Brown Bag</u>, **Georgia Tech**. Held virtually. March 18, 2021.

T.19   *Collectivism in Design: Participatory Approaches to Envisioning Community Futures.* Invited Design Seminar at the **University of Illinois Chicago's School of Design**. Held Virtually. Jan. 29, 2021

T.18   *Moving Beyond Accessible: Considering Design's Reach for Marginalized Populations.* Keynote speaker for the **Health Design Lab**'s <u>Dementia Lab Conference 2021</u>. Held virtually. Jan. 21, 2021

T.17   *Community-Based Approaches to Reconsidering Design for Marginalized Populations.* Invited talk for **University of Washington**'s "DUB Seminar". Oct. 28, 2020.

T.16   *What Happens When We Center the Margins in Design?* Invited talk for Media Arts & Sciences Seminar Talk, MIT Media Lab. **Massachusetts Institute of Technology**. Oct. 9, 2020.

T.15   *Participatory Collectivism in Design.* Invited talk for Design + Environmental Analysis Grad Seminar Series at **Cornell University**'s College of Human Ecology. Oct.2, 2020

T.14   *What technologies do older adults want to design?* Invited presentation for **MIT Media Lab**'s Ask a Robot Older Adult Cohort Conversation. Remote presentation due to COVID-19. Aug. 7, 2020

T.13   *Human-Centered Design is Not Enough: Inclusive Participatory Research Practices for Designing with Marginalized Groups.* Invited presentation for **Canadian Digital Service (CDS)** Design Research group. Remote presentation due to COVID-19. July 17, 2020.

T.12   *Inclusivity through Design: Imagining Tech with the Forgotten Middle.* Invited presentation for **DePaul University's Alumni University Day**. Virtual. April 2020

T.11   *Engaging African American Older Adults in Health Discussions through CoDesign Workshops: A consideration of ethics and design equity.* Invited presentation at CSCW Workshop wellcomm2019: Exploring How to Design Tools and Methods to Empower Groups to Co-Create and Own their Own Healthful Workplace Culture, **CSCW**, Austin, TX. Nov. 8, 2019

T.10   *Inclusivity through Design.* Research presentation given for the International Visitor Leadership Program for Advancing Women in STEAM Field sponsored by the U.S. Department of State. **WorldChicago**, Chicago, IL. Oct. 2019

T.9   *Engaging Low-Income African American Older Adults in Health Discussions through Community-based Design Workshops.* Feinberg School of Medicine- Digital Mental Health T32 Seminar. **Northwestern School of Medicine**, Chicago, IL. July 2019

T.8   *Participatory Approaches to Understanding and Designing for Health Behaviors Among the Aging Population.* School of Informatics and Computing Colloquia Series. **Indiana University Purdue University Indianapolis**, Indianapolis, IN. Nov. 2018

T.7   *Creating technology experiences that promote health and wellness among marginalized populations.* **IBM Watson Health Behavior Change Special Interest Group**: Speaker Series. Nov. 2018

T.6   *Participatory Approaches to Understanding and Designing for Older Adults.* College of Computing & Digital Media Research Colloquium. **DePaul University**, Chicago, IL. Nov. 2018

T.5   *Participatory Approaches to Understanding and Designing for Older Adults.* Invited Research Talk. Collaborations in Health, Aging, Research, and Technology Group. **University of Illinois at Urbana-Champaign**, IL. Oct. 2018

T.4   *Inclusivity through Design: Promoting Health and Wellness Among Older Adults through Health Games.* Invited Colloquium. **NC State University**, Raleigh, NC. May 2018

T.3   *Inclusive Design: Ideas, Implementation, and Impact.* Invited presentation at the Disability Studies Initiative Scholars Showcase. **Emory University**, Atlanta, GA. Feb. 2017

T.2   *Value of Accessibility in Interaction Design.* Invited presentation at **San Francisco State Univ.** Department of Design & Industry - Graduate seminar. San Francisco, CA. Feb. 2016

T.1   *Assessing Activity Limitations and Effective Assistive Devices for Older Adults with Impairments.* Invited presentation for Design and Technology for Healthy Aging (DATHA) speaker series. **Georgia Institute of Technology**, Atlanta, GA. Feb. 2015

INVITED PANELS

IP.11   Trust in Community Engaged Health Equity Work (September 12, 2022). Panel for Google's Health Equity Summit. Mountain View, CA

IP.10   Telehealth for Black Communities and the Policies Needed to Institutionalize It (April 28, 2022). Panel for Black Tech Futures Research Institute's Black Tech Policy Week. *Held virtually.

IP.9   Toyotability: Through the Lens of Another (October 2021). Invited panel for Toyota's Accessibility week. *Held virtually.

IP.8   Death to Method, Long Live Method. (April 8, 2021). Invited panelist for the 3rd North American PhD by Design Symposium. *Held virtually.

IP.7   HCI & Justice: Putting Ethics and Inclusion at the Forefront of Design. (March 12, 2021). Invited panelist for the 2021 Women in Tech Symposium – The New Era in Human-Computer Interaction. Held by UC Berkley.

IP.6   Public History & Community Engagement. (October 23, 2020) Digital Humanities Conference: *Resources and Visibility in Digital Humanities.* Univ. of Illinois at Chicago.

IP.5   The Future Must Be Different from the Past: Embracing an Antiracist Agenda. (July 1, 2020). Invited panelist for webinar to discuss antiracist design. Held by the IIT Institute of Design.

IP.4   Where are the Black Designers? (June 27, 2020). Invited panelist for the inaugural *Where are the Black Designers?* virtual symposium to discuss design education for Black designers.

IP.3   CHIMe, *Being a Minority in SIGCHI* (April 24, 2020). Invited panelist/moderator to discuss being an underrepresented minority in SIGCHI.

IP.2   Adler Planetarium, Black Women in STEAM (February 17, 2020). Invited panelist to discuss representation of Black women in science, technology, engineering, arts, and math fields.

IP.1   Chicago Metropolitan Agency on Planning, *On to 2050 Symposium* (October 10, 2019). Technology Safety Panel. Invited panelist to speak on considerations for racial equity and tech for city safety.

PEER-REVIEWED CONFERENCE ORAL & POSTER PRESENTATIONS

P.15   McGowan, B., Simuel, J., **Harrington, C.** (April 2022). Evaluating the Influence of Information Literacy Instruction on Health Information-Seeking Behavior in African American Communities: Preliminary Results of a Qualitative Evidence Synthesis. Accepted to the Medical Library Association (MLA) 122nd Annual Meeting.

P.14   **Harrington, C.N.,** Woodward, A. (2021, November). *"I Wouldn't Search that with my Mobile Phone": Credibility and Trust in OHIRs among Lower-income Black Older Adults.* Accepted to the Gerontological Society of America (GSA 2021). *held virtually

P.13   **Harrington, C.N.**, Martin-Hammond, A. (2020, November). Examining Dimensions of Identity within Health-Related Technology Research for Aging Populations. Presented at the Workshop on Interactive Systems in Health (WISH 2020). *held virtually

P.12 Chin, J., Quinn, K., **Harrington, C.,** Desai, S., Lopze, E. (2020). A Scoping Review on the Use of Conversational Agents among Older Adults. Invited to Symposium on Aging and Technology at Gerontological Society of America's 75th Annual Scientific Meeting, Phila, PA.

P.11 **Harrington, C.N.** (2018, March). *Understanding Concept of Health and Approaches to Health Maintenance Among Low-income African American Older Adults.* Presented at the Human Factors and Ergonomics Society Healthcare Symposium, Chicago, IL.

P.10 **Harrington, C.N.,** Sanford, J. A., Rogers, W. (2018, March). *Towards the Design of mHealth Technologies to Support Holistic Wellness Among Older Adults.* Presented at the Human Factors and Ergonomics Society Healthcare Symposium, Boston, MA

P.9 **Harrington, C. N.,** Rogers, W. (2017, November). *Understanding Exergames as an Approach to Health and Wellness Activities for Older Adults.* Presented at the Workshop on Interactive Systems in Healthcare, AMIA Annual Meeting, Washington, DC.

P.8 **Harrington, C. N.** (2017, April). *Engagement with mHealth and Fitness Technologies Among Older Adults: Exploring Challenges and Design Implications.* Presented at the Human Computer Interaction Consortium, Watsonville, CA.

P.7 **Harrington, C. N.,** McGlynn, S.A., Rogers, W.A. (2017, April). *Understanding Motivations and Potential Persuasive Design Techniques for Older Adults' Physical Activity Behaviors.* Presented at the 12th International Conference on Persuasive Technologies, Amsterdam, the Netherlands.

P.6 **Harrington, C. N.**, Hare, K.J., Rogers, W.A. (2017, April). *Developing a Quick-Start Guide to Aid Older Adults with Gesture Performance.* Presented at the Southeastern Human Factors and Applied Research Conference, Raleigh, NC.

P.5 Rogers, W. A., **Harrington, C.**, Barg-Walkow, L.H., Hartley, J., Mitzner T.L. (2015, November). *Designing a Quick-Start Guide for Kinect Game Use by Older Adults.* Presented at the 2016 Gerontological Society of America Annual Scientific Meeting, Orlando, FL.

P.4 **Harrington, C.**, Mitzner, T., Rogers, W. (2015, October). *Identifying the Gaps in Assistive Technologies to Support Healthy Aging.* HFES Europe Annual Meeting, Groningen, the Netherlands.

P.3 Rogers, W. A., Mitzner, T. L., Hartley, J. Q., **Harrington, C. N.** (2015, April). *Identifying the Potential of Exergame Interventions: An analysis of use challenges for novice older adults.* Presented at the 8th International Association of Gerontology and Geriatrics European Region Congress, Dublin, Ireland.

P.2 **Harrington, C.**, Mitzner, T., Rogers, W. (2014, November). *Understanding Everyday Task Challenges for Older Adults with and without Disabilities.* Gerontological Society of America's 67th Annual Scientific Meeting, Washington, DC.

P.1 **Harrington, C.**, Joines, S., Davis, M., Osborne, S. (2013, April). *Inclusive Participatory Design: A Methods Study Assessing Effective Participatory Techniques for Children with Autism.* Industrial Designers Society of America Graduate Expo, Raleigh, NC.

DEMOS & SHOWCASES
D.5 **Harrington, C. N.**, Hare, K.J., Rogers, W.A. (2017, April). *Evaluation of a Quick-Start Guide Gesture Performance w/ Kinect-based Exergames.* GVU Research Showcase, Atlanta, GA.

D.4 **Harrington, C. N.**, Hare, K.J., Rogers, W.A. (2017, April). *Developing a Quick-Start Guide to Aid Older Adults with Gesture Performance.* TechSAge State of the Science Conference, Atlanta, GA.

D.3 Abowd, G., Evans, H., Cheng, Y., Liu, E., Zhou, L., **Harrington, C.** (2016, October). *MD2K: Keeping Users Engaged Through Mobile Technology.* GVU Research Symposium, Atlanta, GA.

D.2 **Harrington, C.**, Fausset, C.B., Sanford, J. (2016, October). *Assessing the Needs for Bathroom Assistive Aids Among Older Adults with Impairments in Dutch and U.S. Residential Environments.* CATEA Open House, Atlanta, GA.

D.1 O'Brien, M., Fausset, C., Mann, E. L., **Harrington, C.** (2014, October). *Impairment Simulation Tools to Demonstrate Age-Related Challenges in Everyday Tasks.* Human Factors & Ergonomics Society 58th Annual Meeting: Product Design Plenary.

NEWS, PRESS, & MEDIA
N.9 "*Christina Harrington on speaking as a way to connect to the real world*". Women Talk Design write-up.

October 2022.

N.8   *"Inclusive Design and Research Methods Will Lead to More Innovative, Intelligent Technology"*. Carnegie Mellon School of Computer Science Interview. (April 2022).

N.7   *"How Do We Move Past Designer as Hero Dynamics? Dr. Christina N. Harrington Discusses the Power of Co-Design".* Core77.com interview ahead of 2022 Core77 Design Awards. (February 2022)

N.6   "*Episode 416: Dr. Christina N. Harrington*". Revision Path Interview. (September 2021).

N.5   *What's the Path to Durable Social & Organizational Change? Community Design for All*. Interviewed by Forbes' Leadership Strategy. (February 2021).

N.4   *How to Design for the Margins.* Interviewed and featured as a "People Nerd" on DScout.com as a part of their 'Conversations' forum. (October 2020).

N.3   Written up as a part of a four-part volume on Black designers: Black Designers: Forward in Action (Part I) by Cheryl D. Holmes-Miller in Print Mag. (Sept 24, 2020).

N.2   DePaul Alumni Relations Feature Faculty (April 2020). Interviewed by Alumni Relations as "a chance for alumni to get back in the classroom and learn from DePaul's outstanding faculty."

N.1   Chicago's Black Women in STEAM. (August 14, 2019). Featured as "one of the premier Black women in Chicago doing amazing things in science, technology, engineering, arts, and math."

RESEARCH IMPACT

My research and associated publications have been used in the following courses as a module/lecture:

Paper	Course
Harrington, C.N., Klassen, S., Rankin, Y.A. (2022). *"All that You Touch, You Change": Expanding the Canon of Speculative Design Towards Black Futuring.*	**INFO 6490: Technology & Social Justice** Spr 2022 (grad level) Cornell Tech- Cornell University, Information Science
Harrington, C.N. (2021, May). *Maybe Grassroots Collectivism is How We Expand Access to Design.*	**EDA 762: Leadership for Inclusive Schooling** Spr 2021 (grad level) **EDA 890: Fundamentals of Qualitative Research** Spr 2021 (grad level) Syracuse University, School of Education
Harrington, C.N., Erete, S., Piper, A.M. (2019). *Deconstructing Community-Based Collaborative Design: Towards More Equitable Participatory Design Engagements.*	**Ethics & Design** – Fall 2021 (graduate level) TU Wien, Media and Human Computer Interaction
	Design 51-744: Research Methods for Design Spr 2020 (grad level) Carnegie Mellon University, School of Design
	SI-710: Research Methods for Special Populations Spr 2020 (grad level) University of Michigan, School of Information
Harrington, C.N. (September 2019). *Towards Equitable Design When We Design with Marginalized Communities.* Medium.	**Sise 3010: Design Thinking for Collective Impact** Fall 2020 (undergrad level) Tulane University, School of Architecture

RESEARCH ACTIVITIES

Google Health Equity Summit Fall 2021, Fall 2022 (*Invitation Only*)
NSF Fairness, Ethics, Accountability, & Transparency Research Workshop 2019
Consortium for the Science of Sociotechnical Systems Researchers (CSST) Summer Research Institute 2019
Michigan Center for Urban African American Aging Research Annual Summer Training Workshop 2019

DOCTORAL CONSORTIA

12th International Conference on Persuasive Technology Doctoral Consortium, Amsterdam, the Netherlands 2017
10th International Conference on Persuasive Technology Doctoral Consortium, Chicago, IL 2015

WORKSHOP PRESENTATIONS

Workshop on Understanding the Past, Present, and Future of Design Fictions – CHI 2020
Workshop on Design4Diversity – PervasiveHealth 2018

Workshop on Mobile Interface Design for Older Adults – CHI 2018
Workshop on Interactive Systems in Healthcare - AMIA 2017
Human-Computer Interaction Consortium 2017
Workshop on Behavior Change Support Systems – International Conference on Persuasive Technology 2017

REVIEW PANELS & JURIES
Guest Critic, Fall Progress Reviews for PhD in Transition Design, Carnegie Mellon School of Design (2022)
Invited Jury Captain, Health and Wellness, Core77 Annual Design Awards (2022)
Guest Critic, Fall Progress Reviews for PhD in Transition Design, Carnegie Mellon School of Design (2021)

INDUSTRY EXPERIENCE
ChiByDesign, Chicago, IL   Oct. – Dec. 2020
Design Research Lead (Contract project with Ohio Children's Services System and The Columbus Foundation)

Greater Good Studio, Chicago, IL   Oct. 2019 - Jan. 2020
Design Research Consultant (Short-Term Contract for project with Girls Scouts of Greater Chicagoland area)

Apple, Cupertino, CA   Sept. 2015 – Aug. 2016
UX/UI Engineer – Hardware Tools and Data Analytics Team

Lextant, Columbus, OH   June 2013 – Aug. 2013
Design Research Intern

Lenovo, Morrisville, NC   Feb. 2013 – May 2013
Human Factors Design Contractor

Motorola Inc., Columbia, MD   Aug. 2009 – Aug. 2010
RF Systems Engineer - Department of Defense Subdivision, Radio Defense Group

HONORS & AWARDS
CRA-WP Skip Ellis Early Career Award	2022
Georgia Tech GVU Student Travel Grant	2015
SouthEast Women in Computing Scholarship Award	2015
GSA Accelerating Translation of Knowledge to Community Practices	2014

TEACHING EXPERIENCE
<u>INSTRUCTOR OF RECORD</u>
HCI 445: **User Research Methods** (*DePaul University*)	Winter 2021
HCI 440: **Intro to User-Centered Design** (*DePaul University*)	Spring 2020
HCD 450: **Theories and Methods in Human-Centered Design** (*DePaul University*)	Winter 2020/2021
ISM 210: **Intro to Human-Computer Interaction** (*DePaul University*)	2019 – 2021
HCI/HCD 599: **Graduate Independent Study** (*DePaul University*)	Spr. 2020, Wtr/Spr. 2021
CSC 500: **CDM Research Colloquium** (*DePaul University*)	Spring 2021
BMED 2310: **Intro to Biomedical Engineering Design** (*Georgia Tech*)	Summer 2015

<u>CO-INSTRUCTOR</u>
CS 05392/05692 **Interaction Design Overview** (*Carnegie Mellon University*)	Spring 2022
ID 4843/8900: **Design and Public Health** (*Georgia Tech*)	Spring 2017
E 144: **Academic & Professional Prep for Engineering I** (*NC State*)	Fall 2012
ECD 224: **Student Development and Peer Mentoring** (*NC State*)	Fall 2010

<u>GUEST LECTURER</u>
INT 1300: **Design Matters** (*Appalachian State University*)	Spring 2022
Instructor: Fabio Andres Tellez	
INF385T: **Putting the 'H' in HCI, Research with Vuln. Pops.** (*UT Austin*)	Fall 2021
Instructor: Angela D. R. Smith, Ph.D.	
ITI 340 **Gender and Technology** (*Rutgers University*)	Spring 2021
Instructor: Megan Threats, PhD	
SI-710 **Research Methods for Special Populations** (*University of Michigan*)	Spring 2020
Instructor: Tawanna Dillahunt, PhD	

Co-Design Workshop *(Illinois Institute of Technology)*   Fall 2019
  Instructor: Christopher Rudd
PSYC 6023: **Psychology Research Methods for HCI** *(Georgia Tech)*   Fall 2015
  Instructor: Carrie Bruce, PhD
ID 4081: **Collaboration Design Studio** *(Georgia Tech)*   Fall 2015
  Instructor: Wayne Li
PSYC 6014: **Sensation and Perception** *(Georgia Tech)*   Spring 2015
  Instructor: Bruce Walker, PhD
BMED 2300: **Problems in Biomedical Engineering** *(Georgia Tech)*   Fall 2014/Fall 2015
  Instructor: Raja Schaar

TEACHING ASSISTANT
ID/CS 6763: **Design for Interactive Environments** *(Georgia Tech)*   Spring 2014
  Instructor: Jon Sanford, Brian Jones
ID 445: **Human-Centered Design** *(NC State)*   Spring 2013
  Instructor: Sharon Joines
D 103: **Design Culture and Context II** *(NC State)*   Spring 2013
D 102: **Design Culture and Context I** *(NC State)*   Fall 2012
  Instructor: Kathleen Rieder

ADDITIONAL CERTIFICATIONS

Certificate of Accomplishment in Teaching (North Carolina State University, Raleigh, NC) 2013

PROFESSIONAL SERVICE

Georgia Tech College of Design Advisory Board Member   2022-2024
NSF Panel Reviewer   October 2020

Executive Committee
ACM FAccT 2023– General Chair   2022 - 2023
CHI 2022 – Equity Co-Chair   2020 - 2022

Program and Conference Support Committees
Fairness, Accountability, and Transparency Conference (ACM FAccT)   2021
PervasiveHealth Conference   2020
CSCW Award Committee   2020

Organizing/Steering Committees
CHI Steering Committee   2021-
Symposium for the Workshop on Interactive Systems for Healthcare   2020
Participatory Design Conference   2019 - 2020

Conference and Manuscript Service
- Associate Paper Chair – DIS; Fairness, Accountability, and Transparency (FAccT) Conference; CHI (Design Subcommittee); CHI (Health Subcommittee)
- Reviewer – ToCHI; CHI; DIS; CSCW; The Gerontologist; ACM Journal of Interactive, Multimedia, Wearable and Ubiquitous Technologies; Journal of Medical Internet Research; Journal of Assistive Technology; Automation in Construction; Human Factors and Ergonomics Society

Memberships
Design Justice Network   2019 - preset
Design Research Society   2019 - present
American Medical Informatics Association   2017 - present
Association for Computing Machinery   2016 - present
Human Factors and Ergonomics Society   2011 - present
Industrial Designers Society of America   2011 - 2013

CARNEGIE MELLON UNIVERSITY SERVICE

Design Curriculum Committee   2022 –
PhD Admissions Committee   2021-

HCII Preview Weekend	Fall 2021

DEPAUL UNIVERSITY SERVICE

University-level Service

University Research Council	2020- 2021

College-level Service

Research Environment and Scholarship	2020-2021
CDM Research Colloquium Chair	2021

Department-level Service

School of Design Speaker Series (Co-Chair)	2020-2021
Spotlight on Black Designers SoD Speaker Event	2020/2021

***Planned the inaugural SoBD event as a collaboration with Illinois Institute of Technology.
Organized keynote and panel speakers and moderated panel. Attendance of over 100 people.*

HCD PhD (Program Committee)	2019-2021
ISM/HCI/UXD (Curriculum Committee)	2019-2021

ORGANIZING & COMMUNITY ENGAGEMENT

Design as Protest – engaged as a member of Storytelling and Communications following the uprisings of Summer 2020
Black Equity Coalition – working with Pittsburgh area community orgs interested in addressing health equity

STUDENT COMMITTEES, ADVISING, & MENTORING

Ph.D. Students Advised

**Adinawa Adjagbodjou	(Co-Advised with Geoff Kaufman) Carnegie Mellon University**	**2021-**
**Cella Sum	(Co-Advised with Sarah Fox) Carnegie Mellon University**	**2021-**
Lisa Egede	Carnegie Mellon University	2021- 2022
Degnan Lawrence	DePaul University	2020- 2021

External Dissertation Committee

**Anastasia K. Ostrowski	Massachusettes Institute of Technology (Media Lab)**	**2022-**
**Shamika Klassen	University of Colorado-Boulder (Information Science)**	**2022-**
**Kaylla Cantilina	University of Michigan (Design Science)**	**2022-**
**Jay Cunningham	University of Washington (HCDE)**	**2021-**
Maurita Harris	University of Illinois Urbana-Champaign (Community Health)	2021-2022
Brooke Bosley	Georgia Institute of Technology (Digital Media)	2021- 2022
Ben Jelen	Indiana University (PhD – Health Informatics)	2019-2022

Advised Research Assistants

Adhiti Chundur	Carnegie Mellon University (HCI Undergrad)	2022
Dimitri Williams	DePaul University (Masters HCI)	2021
Ighodalo Ijagbone	DePaul University (Masters HCI)	2020- 2021
Kirsten Bray	DePaul University (Masters HCI)	2020- 2021
Paola Favela	DePaul University (Masters HCI)	2020- 2021
Cameron Froehlich	DePaul University (UXD Undergrad)	2020- 2021
Katiana Pierre	DePaul University (Neuroscience Undergrad)	2020- 2021
Julianne Sorek	DePaul University (Psychology Undergrad)	2020- 2021
Anthony Gladney	DePaul University (Masters HCI)	2019 - 2020
Keeley White	DePaul University (Sociology and Graphic Design Undergrad)	2019 - 2020
Lian Tran	DePaul University (Masters HCI)	2019 - 2020