

AMANDA LAZAR

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APPOINTMENTS

Associate Professor College of Information Studies University of Maryland, College Park	2024-Present
Assistant Professor College of Information Studies University of Maryland, College Park	2017-2024
Affiliate , Department of Computer Science University of Maryland, College Park	2018-Present

EDUCATION

Postdoctoral Fellow in the Technology and Social Behavior Program Northwestern University	2015-2017
Ph.D. in Biomedical and Health Informatics University of Washington	2011-2015
B.S. in Electrical Engineering University of California, San Diego	2006-2011

PUBLICATIONS

For each entry in this section: **My name is bolded**; the names of students I worked with directly (as advisor, committee member, or supervising research assistantships) are underlined.

BOOK

Vanderheiden G, Lazar J, **Lazar, A**, Kacorri H, and Jordan, JB (2023). Technology and Disability: 50 Years of Trace R&D Center Contributions and Lessons Learned. *Synthesis Lectures on Technology and Health*. Springer. ISBN: 9783031092145. <https://doi.org/10.1007/978-3-031-09214-5>

JOURNAL ARTICLES

- [J26] Hu R, Pradhan A, Bonsignore E, **Lazar A**. (2024). Sustaining the Usefulness and Appeal of an Older Adult-led Makerspace through Developing and Adapting Resources. Proceedings of the ACM: Human Computer Interaction 8 (PACM HCI), CSCW1. Article 124 (April 2024), 30 pages, <https://doi.org/10.1145/3637401>
- [J25] Dixon E, Anderson J, Blackwelder DC, Radnofsky M, **Lazar A**. (2022). The Human Need for Equilibrium: A Qualitative Study on the Ingenuity, Technical Competency, and Changing Strategies of People with Dementia Seeking Health Information. Journal of Medical Internet Research; 24(8):e35072. <https://doi.org/10.2196/35072>
- [J24] Maddali HT, Irlitti A, **Lazar A** (2022). Probing the Potential of Extended Reality to Connect Experts and Novices in the Garden. Proceedings of the ACM: Human Computer Interaction 6

- (PACM HCI), CSCW2. Article 320 (November 2022), 30 pages. <https://doi.org/10.1145/3555211>
- [J23] Dixon E, Anderson J, **Lazar A**. (2022). Understanding How Sensory Changes Experienced by Individuals with a Range of Age-Related Cognitive Changes Can Affect Technology Use. ACM Transactions on Accessible Computing (TACCESS);15(2):Article 10 (June 2022), 33 pages. <https://doi.org/10.1145/3511906>
- [J22] **Lazar A**, Jelen B, Pradhan A, Siek K. (2021). Adopting Diffractive Reading to Advance HCI Research: A Case Study on Technology for Aging. ACM Transactions on Computer-Human Interaction (TOCHI). 28(5):Article 32 (October 2021), 29 pages. <https://doi.org/10.1145/3462326>
- [J21] Coghlan S, Waycott J, **Lazar A**, Neves BB. (2021). Dignity, autonomy, and style of company: Dimensions older adults consider for robot companions. Proceedings of the ACM: Human Computer Interaction 5 (PACM HCI), CSCW1:Article 104 (April 2021), 25 pages. <https://doi.org/10.1145/3449178> **Honorable Mention Award**
- [J20] Ganesh K, **Lazar A**. (2021). The Work of Workplace Disclosure: Invisible Chronic Conditions and Opportunities for Design. Proceedings of the ACM: Human Computer Interaction 5 (PACM HCI), CSCW1: Article 73 (April 2021), 26 pages. <https://doi.org/10.1145/3449147>
- [J19] Su NM, **Lazar A**, Irani L. (2021). Critical Affects: Tech Work Emotions Amidst the Techlash. Proceedings of the ACM: Human Computer Interaction 5 (PACM HCI), CSCW1:Article 179 (April 2021), 27 pages. <https://doi.org/10.1145/3449253>
- [J18] Wood R, Dixon E, Elsayad-Ali S, Shokeen E, **Lazar A**, Lazar J. (2021). Investigating Best Practices for Remote Summative Usability Testing with People with Mild to Moderate Dementia. ACM Transactions on Accessible Computing (TACCESS). 14(3): Article 11 (September 2021), 26 pages. <https://doi.org/10.1145/3460942>
- [J17] **Lazar A**, Brewer RN, Kacorri H, Hong J, Punzalan MND, Mahathir M, Vander Hyde O, Ross III W. (2021). How Content Authored by People with Dementia Affects Attitudes towards Dementia. Proceedings of the ACM: Human Computer Interaction 5 (PACM HCI), CSCW2: Article 398, 32 pages. <https://doi.org/10.1145/3479542>
- [J16] Pradhan, A, **Lazar, A**, Findlater, L. (2020). Use of Intelligent Voice Assistants by Older Adults with Low Technology Use. ACM Transactions on Computer-Human Interaction, 27(4): Article 31, 27 pages. <https://doi.org/10.1145/3373759> **Best Paper Award**
- [J15] **Lazar A**, Dixon E. (2019). Safe Enough to Share: Setting the Dementia Agenda Online. Proceedings of the ACM: Human Computer Interaction 3 (PACM HCI), CSCW: Article 85, 23 pages. <https://doi.org/10.1145/3359187> **Honorable Mention Award**
- [J14] Pradhan A, Findlater L, **Lazar A**. (2019). “Phantom Friend” or “Just a Box with Information”: Personification and Ontological Categorization of Smart Speaker-based Voice Assistants by Older Adults. Proceedings of the ACM: Human Computer Interaction 3 (PACM HCI), CSCW: Article 214 (November 2019), 21 pages. <https://doi.org/10.1145/3359316>
- [J13] Choi Y, **Lazar A**, Demiris G, Thompson HJ. (2019). Emerging Smart Home Technologies to Facilitate Engaging with Aging. Journal of Gerontological Nursing. 45(12): 41-48. <https://doi.org/10.3928/00989134-20191105-06>

- [J12] Su NM, **Lazar A**, Bardzell J, Bardzell S. (2019). Of Dolls and Men: Anticipating Sexual Intimacy with Robots. *ACM Transactions on Computer-Human Interaction (TOCHI)*. 26(3). Article 13 (June 2019), 35 pages. <https://doi.org/10.1145/3301422>
- [J11] Backonja U, Hall AK, Painter I, Kneale L, **Lazar A**, Cakmak M, Thompson HJ, Demiris G. (2018). Comfort and attitudes towards robots among young, middle-aged, and older adults: A cross-sectional study. *Journal of Nursing Scholarship*. 50(6), 623–633. <https://doi.org/10.1111/jnu.12430>
- [J10] Takemoto M, Manini TD, Rosenberg DE, **Lazar A**, Zlatar ZZ, Krupa S, Kerr J. (2018). Diet and Activity Assessments and Interventions Using Technology in Older Adults. *American Journal of Preventative Medicine*. 55(4):e105-e115. <https://doi.org/10.1016/j.amepre.2018.06.005>
- [J9] **Lazar A**, Thompson HJ, Lin S-Y, Demiris G. (2018). Negotiating Relation Work with Telehealth Home Care Companionship Technologies that Support Aging in Place. *Proceedings of the ACM: Human Computer Interaction 2 (PACM HCI), CSCW: Article 103* (November 2018), 19 pages. <https://doi.org/10.1145/3274372>
- [J8] **Lazar A**, Thompson HJ, Demiris G. 2018. Design Recommendations for Recreational Systems Involving Older Adults Living with Dementia. *Journal of Applied Gerontology*. 37(5), 595-615. <https://doi.org/10.1177/0733464816643880>
- [J7] Chi NC, Sparks O, Lin S, **Lazar A**, Thompson HJ, Demiris G. (2017). Pilot testing a digital pet avatar for older adults. *Geriatric Nursing*. Nov-Dec; 38(6):542-547. <https://doi.org/10.1016/j.gerinurse.2017.04.002>
- [J6] **Lazar A**, Demiris G, Thompson H. (2016). Evaluation of a Multi-functional Technology System in a Memory Care Unit: Opportunities for Innovation in Dementia Care. *Informatics for Health and Social Care*. 41(4):373-86. <https://doi.org/10.3109/17538157.2015.1064428>
- [J5] **Lazar A**, Demiris G, Thompson H. (2015) Involving Family Members in the Implementation and Evaluation of Technologies for Dementia: a Dyad Case Study. *Journal of Gerontological Nursing*. 41(4):21-26. <https://doi.org/10.3928/00989134-20150309-03>
- [J4] **Lazar A**, Thompson H, Demiris G. (2014). A Systematic Review of the Use of Technology for Reminiscence Therapy. *Health Education & Behavior*. Volume 41 Supplement 1:51S-61S. <https://doi.org/10.1177/1090198114537067>
- [J3] Chung J, Reeder B, **Lazar A**, Joe J, Demiris G, Thompson H. (2014). Exploring an informed decision-making framework using in-home sensors: Older adults' perceptions. *Informatics in Primary Care* (now the *Journal of Innovation in Health Informatics*). 21(2):73-7. <https://doi.org/10.14236/jhi.v21i2.53>
- [J2] Reeder B, Chung J, **Lazar A**, Joe J, Demiris G, Thompson H. (2013). Testing a Theory-Based Mobility Monitoring Protocol Using In-Home Sensors: A Feasibility Study. *Research in Gerontological Nursing*. 6(4):253-63. <https://doi.org/10.3928/19404921-20130729-02>
- [J1] Reeder B, Meyer E, **Lazar A**, Chaudhuri S, Thompson H, Demiris G. (2013). Framing the evidence for health smart homes and home-based consumer health technologies as a public health intervention for independent aging: a systematic review. *International Journal of Medical Informatics*. 82(7):565-79. <https://doi.org/10.1016/j.ijmedinf.2013.03.007>

CONFERENCE PAPERS (Peer-Reviewed, Archival**)

** In the field of Human-Computer Interaction, full papers published at conferences such as CHI are peer-reviewed and viewed equally as or more important than journal articles.

- [C34] Hu R, Gao G, **Lazar A**. (2024). Exploring Videoconferencing for Older Adults with Cognitive Concerns Using a Dramaturgical Lens. To appear in the proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS).
- [C33] Wang Y, Li M, Kim Y-H, Lee B, Danilovich M, **Lazar A**, Conroy DE, Kacorri H, Choe EK. (2024) Redefining Activity Tracking Through Older Adults' Reflections on Meaningful Activities. Proceedings of the Conference on Human Factors in Computing Systems (CHI) Article 465, 1–15. <https://dl.acm.org/doi/10.1145/3613904.3642170>
- [C32] Maddali HT, **Lazar A**. (2023). Understanding Context to Capture when Reconstructing Meaningful Spaces for Remote Instruction and Connecting in XR. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI) Article 275, 1-18. <https://doi.org/10.1145/3544548.3581243> **Best Paper Award**
- [C31] Wood R, Dixon E, Elsayed-Ali S, **Lazar A**, Lazar J. (2023). Exploring Future Personalization Opportunities in Technologies used by Older Adults with Mild to Moderate Dementia. In Proceedings of the 56th Hawaii International Conference on System Sciences (HICSS). <https://hdl.handle.net/10125/103129>
- [C30] Jelen B, **Lazar A**, Harrington C, Pradhan A, Siek KA. (2023). Speaking from Experience: Co-designing E-textile Projects with Older Adult Fiber Crafters. In Proceedings of the Seventeenth International Conference on Tangible, Embedded, and Embodied Interaction (TEI). Article 5, 1-22. <https://doi.org/10.1145/3569009.3572736>
- [C29] Dixon E, Michaels RB, Xiao X, Zhong Y, Brewer RN, **Lazar A**. (2022). Mobile Phone Use by People with Mild to Moderate Dementia: Uncovering Challenges and Identifying Opportunities. In Proceedings of the 24th International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). Article 38, 1–16. <https://doi.org/10.1145/3517428.3544809>
- [C28] Berridge C, Zhou Y, **Lazar A**, Porwal A, Mattek N, Gothard S, Kaye J. (2022). Control Matters in Elder Care Technology: Evidence and Direction for Designing It In. In Proceedings of the 2022 ACM Designing Interactive Systems Conference (DIS). 1831–1848. <https://doi.org/10.1145/3532106.3533471>
Best Paper Award
- [C27] Dixon E, Anderson J, Blackwelder D, Radnofsky ML, **Lazar A**. (2022). Barriers to Online Dementia Information and Mitigation. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). Article 513, 1–14. <https://doi.org/10.1145/3491102.3517554>
- [C26] Kim YH, Chou D, Lee B, Danilovich M, **Lazar A**, Conroy DE, Kacorri H, Choe EK. (2022). MyMove: Facilitating Older Adults to Collect In-Situ Activity Labels on a Smartwatch with Speech. In Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems (CHI). Article 416, 1–21. <https://doi.org/10.1145/3491102.3517457>
- [C25] **Lazar A**, Pradhan A, Jelen B, Siek KA, Leitch A. (2021). Studying the Formation of an Older Adult-Led Makerspace. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). Article 593, 1–11. <https://doi.org/10.1145/3411764.3445146>

- [C24] **Dixon E**, Piper AM, **Lazar A**. (2021) “Taking care of myself as long as I can”: How People with Dementia Configure Self-Management Systems. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). Article 656, 1–14. <https://doi.org/10.1145/3411764.3445225>
- [C23] **Dixon, E., Lazar, A.** (2020). The Role of Sensory Changes in Everyday Technology use by People with Mild to Moderate Dementia. In Proceedings of the 22nd International ACM SIGACCESS Conference on Computers and Accessibility (ASSETS). Article 41, 1–12. <https://doi.org/10.1145/3373625.3417000> **Best Paper Nominee**
- [C22] **Dixon E, Lazar A.** (2020). Approach Matters: Linking Practitioner Approaches to Technology Design for People with Dementia. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 1–15. <https://doi.org/10.1145/3313831.3376432>
- [C21] **Pradhan A, Jelen B, Siek K, Chan J, Lazar A.** (2020). Understanding Older Adults’ Participation in Design Workshops. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 1–15. <https://doi.org/10.1145/3313831.3376299>
- [C20] Hodge J, Foley S, Brankaert R, Kenning G, **Lazar A**, Boger JN, Morrissey K. (2020). Relational, Flexible, Everyday: Learning from Ethics in Dementia Research. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 1–16. <https://doi.org/10.1145/3313831.3376627>
- [C19] **Maddali HT, Lazar A.** (2020). Sociality and Skill-Sharing in the Garden. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 1–13. <https://doi.org/10.1145/3313831.3376246>
- [C18] Bardzell J, Bardzell S, **Lazar A**, Su NM. (2019). (Re-)Framing Menopause Experiences for HCI and Design. In Proceedings of the Conference on Human Factors in Computing Systems (CHI). 1–13. <https://doi.org/10.1145/3290605.3300345>
- [C17] **Lazar A**, Su NM, Bardzell J, Bardzell S. (2019). Parting the Red Sea: Sociotechnical Systems and Lived Experiences of Menopause. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI). Paper 480, 1–16. <https://doi.org/10.1145/3290605.3300710>
- [C16] **Lazar A**, Feuston J, Edasis C, Piper AM. (2018). Making as Expression: Informing Design with People with Complex Communication Needs through Art Therapy. In Proceedings of the CHI Conference on Human Factors in Computing Systems. Paper 351, 1–16. <https://doi.org/10.1145/3173574.3173925> **Best Paper Award**
- [C15] Diaz M, Johnson I, **Lazar A**, Piper AM, Gergle D. (2018). Addressing Age-Related Bias in Sentiment Analysis. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). Paper 412, 1–14. <https://doi.org/10.1145/3173574.3173986> **Best Paper Award**
- [C14] **Lazar A**, Edasis C, Piper AM. (2017). A Critical Lens on Dementia and Design in HCI. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 2175–2188. <https://doi.org/10.1145/3025453.3025522> **Best Paper Award**
- [C13] **Lazar A**, Edasis C, Piper AM. (2017). Supporting People with Dementia in Digital Social Sharing. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 2149-2162. <https://doi.org/10.1145/3025453.3025586> **Honorable Mention Award**

- [C12] **Lazar A**, Nguyen D. (2017). Successful Leisure: Understanding Older Adults' Motivations to Engage in Leisure Activities. In Proceedings of the CHI Conference on Human Factors in Computing Systems (CHI). 7042–7056. <https://doi.org/10.1145/3025453.3025802>
- [C11] **Lazar A**, Diaz M, Brewer R, Kim C, Piper AM. (2017). Going Grey, Failure to Hire, and the Ick Factor: Analyzing How Older Bloggers Talk About Ageism. In Proceedings of the ACM Conference on Computer Supported Cooperative Work & Social Computing (CSCW). 655-668. <https://doi.org/10.1145/2998181.2998275> **Honorable Mention Award**
- [C10] Hazen, RJ, **Lazar A**, Gennari JH. (2016). Assessing patient and caregiver needs and challenges in information and symptom management: a study of primary brain tumors. In Proceedings of the American Medical Informatics Association Annual Conference (AMIA). 1804-1813. PMID: [28269939](https://pubmed.ncbi.nlm.nih.gov/28269939/)
- [C9] Demiris G, Thompson HJ, **Lazar A**, Lin Shih-Yin. (2016). Evaluation of a Digital Companion for Older Adults with Mild Cognitive Impairment. In Proceedings of the American Medical Informatics Association Annual Conference (AMIA). 496-503. [28269845](https://pubmed.ncbi.nlm.nih.gov/28269845/)
- [C8] **Lazar A**, Thompson HJ, Piper AM, Demiris G. (2016). Rethinking the Design of Robotic Pets for Older Adults. In Proceedings of the Designing Interactive System Conference (DIS). 1034-1046. <https://doi.org/10.1145/2901790.2901811>
- [C7] **Lazar A**, Cornejo R, Edasis C, Piper AM. (2016). Designing for the Third Hand: Empowering Older Adults with Cognitive Impairment through Creating and Sharing. In Proceedings of the Designing Interactive System Conference (DIS). 1047-1058. <https://doi.org/10.1145/2901790.2901854> **Best Paper Award**
- [C6] Reeder B, Chung J, Joe J, **Lazar A**, Thompson HJ, Demiris G. (2016). Understanding Older Adults' Perceptions of In-Home Sensors Using an Obtrusiveness Framework. In Proceedings of the 10th International Conference on Foundations of Augmented Cognition: Neuroergonomics and Operational Neuroscience, Part II – Lecture Notes in Computer Science, Volume 9744. 351-360. https://doi.org/10.1007/978-3-319-39952-2_34
- [C5] **Lazar A**, Koehler C, Tanenbaum TJ, Nguyen DH. (2015). Why We Use and Abandon Smart Devices. Proceedings of the ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp). 635-646. <https://doi.org/10.1145/2750858.2804288> **Honorable Mention Award**
- [C4] **Lazar A**, Thompson H, Demiris G. (2015). Considerations in Evaluating Technologies in Memory Care Units. In Proceedings of Human Aspects of IT for the Aged Population: Design for Everyday Life, Part II – Lecture Notes in Computer Science, Volume 9194. Springer. 114-122. https://doi.org/10.1007/978-3-319-20913-5_11
- [C3] Su, NM, Liu LS, **Lazar A**. (2014). Mundanely Miraculous: The Robot in Healthcare. Proceedings of the 8th Nordic Conference on Human-Computer Interaction (NordCHI). 391-400. <https://doi.org/10.1145/2639189.2641216>
- [C2] Weibel N, Satyanarayan A, **Lazar A**, Oda R, Yamaoka S, Doerr KU, Kuester F, Griswold WG, Hollan JD. (2011). HIPerFace: a Multi-channel Architecture to Explore Multimodal Interactions with Ultra-Scale Wall Displays. Proceedings of the 33rd International Conference on Software Engineering (ICSE).

- [C1] Alankus G, **Lazar A**, May M, Kelleher C. (2010). Towards Customizable Games for Stroke Rehabilitation. In Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI). 2113-2122. <https://doi.org/10.1145/1753326.1753649>

TALKS

Keynotes

“How can we design technologies that older adults will adopt and use?”

Bridging Silos: Diverse Key Partner Perspectives on Leveraging AI to Improve the Care of Older Adults
Forum

Johns Hopkins University – September 6th, 2024

“How Stereotypes of Aging Prevent Older Adults from Accepting Technologies”

a2 National Symposium

University of Pennsylvania – March 19th, 2024

Invited Talks

“Centering tensions between critical perspectives & practice to advance HCI research on health & aging”

UCLIC Seminar

University College London (London, United Kingdom)– May 9th, 2024

“Centering tensions between critical perspectives & practice to advance HCI research on health & aging”

Bristol Interaction Group (BIG) Seminar

University of Bristol (Bristol, United Kingdom) – May 8th, 2024

“Directions for Generative AI for Social Isolation and Loneliness for Older Adults”

Workshop on ChatGPT and Aging: Implications of Generative AI for Gerontology

University of Pennsylvania (Philadelphia, Pennsylvania) – December 5th, 2023

“Learning from how older adults use emerging technologies in unexpected ways”

Computer Science Department Seminar Series

American University (Washington, D.C.) – November 1st 2023

“How Content Authored by People with Dementia Affects Attitudes Towards Dementia”

Monthly Meeting

Southern California Dementia Care Improvement Network (online) – July 19th, 2023

“Designing health technologies with people with mild dementia”

PennAITech Collaboratory for Healthy Aging Webinar Series

University of Pennsylvania (online) – Oct 6th, 2022

“Designing health technologies with people with mild dementia”

Computer Science and Informatics (CSI) Speaker

Emory University (online) – Sep 23rd, 2022

“Designing consumer health informatics applications with people with dementia”

UK Dementia Research Institute Virtual Brain Meetings

Organized by Stefano Sandrone at Imperial College London (online) – May 5th, 2022

“Designing for dementia”

Decision-Making in Alzheimer’s Research Seminar

University of Washington (online) – Feb 15th, 2022

“Centering tensions between critical perspectives & practice to advance HCI research on health & aging”

CDM (Computing and Digital Media) Research Colloquium Series

DePaul University (online) – May 7th, 2021

“Centering tensions between critical perspectives & practice to advance HCI research on health & aging”

HCI Speaker Series

The Pennsylvania State University (online) – April 5th, 2021

“Centering tensions between critical perspectives & practice to advance HCI research on health & aging”

School of Modeling, Simulation, and Training (SMST) Bi-Weekly Seminar

University of Central Florida (online) – March 23rd, 2021

“The Role of Technology in Understanding Perspectives on Aging and Health”

Bristol Interaction Group (BIG) Virtual Seminar Series

University of Bristol (online) – December 10th, 2020

“The Role of Technology in Understanding Perspectives on Aging and Health”

Interaction Design Lab Seminar

University of Melbourne (Melbourne, Australia) – January 17th, 2020

“The Role of Technology in Understanding Perspectives on Aging and Health”

Human-Computer Interaction Seminar

Stanford University (Stanford, California) – April 9th, 2019

“The Role of Technology in Understanding Perspectives on Aging and Health”

The Department of Electrical & Computer Engineering Speaker Series

University of Houston (Houston, Texas) – February 18th, 2019

“The Role of Technology in Understanding Perspectives on Aging and Health”

Research Seminar

City, University of London (London, UK) – August 13th, 2018

“Technological approaches to expanding opportunities for people with dementia”

Division of Geriatric Psychiatry and Neuropsychiatry Noon Seminar

Johns Hopkins University (Baltimore, MD) – March 9th, 2018

“The Role of Technology in Understanding Perspectives on Aging and Health”

Interactive Systems Research Center Speaker Series

University of Maryland, Baltimore County (Baltimore, MD) – November 28th, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”

Presentation to the Surveillance Informatics Branch

National Cancer Institute (Rockville, MD) – September 7th, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”

Informatics Colloquium Series

Indiana University (Bloomington, IN) – September 1st, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”
Research Presentation for the Department of Kinesiology and Community Health
University of Illinois at Urbana-Champaign (Urbana, IL) – March 9th, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”
Research Presentation for the Design Lab
University of California, San Diego (San Diego, CA) – March 6th, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”
Biomedical Informatics Special Seminar – Biomedical Informatics
Vanderbilt University (Nashville, TN) – February 13th, 2017

“The Role of Technology in Understanding Perspectives on Aging and Health”
Learning Sciences Colloquium Series
Northwestern University (Evanston, IL) – December 1st, 2016

“The Role of Technology in Understanding Perspectives on Aging and Health”
College of Computing and Digital Media Colloquium
DePaul University (Chicago, IL) – October 28th, 2016

Refereed Presentations

Dixon E (with Blackwelder D, Radnofsky M, and **Lazar A**) (2022). The human need for equilibrium: Research on the ingenuity, technical competency, and changing strategies of people with dementia seeking health information. Oral Presentation at 35th Global Conference of Alzheimer's Disease International (ADI).

Lazar A, Edasis C, Piper AM. (2016). Technology to Empower or Disempower: Design Tensions Within the Context of Art Therapy. Oral presentation at the Gerontological Society of America Annual Scientific Meeting (GSA).

Lazar A, Thompson HS, Demiris G. (2014). Pilot Testing the Use of a Technology Tool in Memory Care. Oral presentation at Gerontological Society of America Annual Scientific Meeting (GSA).

Refereed Posters

Chi NC, Demiris G, Thompson H, **Lazar A**, Lin SY. (2016). The Usability of a Digital Companion Pet for Older Adults with Mild Cognitive Impairment. Gerontological Society of America Annual Scientific Meeting (GSA). In *The Gerontologist*, Volume 56, Issue Suppl_3, November 2016, Page 566, <https://doi.org/10.1093/geront/gnw162.2276>

Lazar A, Thompson H, Demiris G. (2014). Considerations in Implementing Informatics Studies in Dementia Care Units. American Medical Informatics Association Annual Conference (AMIA). <https://knowledge.amia.org/56638-amia-1.1540970/t-005-1.1543914/f-005-1.1543915/a-411-1.1544438/a-412-1.1544435?qr=1>

Lazar A. (2014). Using Technology to Increase Meaningful Engagement in a Memory Care Unit. In Proceedings of the 2014 ACM International Conference on Supporting Group Work (GROUP). 255–257. <https://doi.org/10.1145/2660398.2660433>

Lazar A, Le T, Joe J. (2013). Lessons Learned from a Usability Study of Community Bulletin Boards for Older Adults. Gerontological Society of America Annual Scientific Meeting (GSA).

Chung J, Reeder B, **Lazar A**, Thompson H, Demiris G. (2013). Living with Home-based Sensor Technology: Older Adults' Perceptions. International Association of Gerontology and Geriatrics (IAGG).

Reeder B, Chung J, Joe J, **Lazar A**, Savvides A, Thompson HJ, Demiris G. (2012). Informing Field Research: Considerations from a Community-Based Feasibility Study with Older Adults and Technology Sensors. American Medical Informatics Association Annual Conference (AMIA). <https://knowledge.amia.org/amia-55142-a2012a-1.636547/t-007-1.639272/f-001-1.639273/a-524-1.639623/a-525-1.639620?qr=1>

Panels

Turner A, Demiris G, **Lazar A**, Chung J. Designing Informatics Solutions for Older Adults with Cognitive Impairment: Responding to the Challenge. (2022). Panel presentation. American Medical Informatics Association (AMIA) Annual Meeting.

Sin J, Munteanu C, Waycott J, Brewer R, Sayago S, **Lazar A**, Weber A. Alexa, Tell Me a Joke!: "Voice Interfaces are Truly Inclusive". (2022). Panel Presentation. In Extended Abstracts of the 2022 CHI Conference on Human Factors in Computing Systems (CHI EA '22). Article 148, 1–3. <https://doi.org/10.1145/3491101.3516508>

Richmond TR (Moderator), Agdeppa ED, Johnson MJ, Demiris G, **Lazar A**. (2020). Smart Beds, Homes and Robots: Emerging Tech Opportunities for Aging. Webinar event for The University of Pennsylvania School of Nursing and the Penn Roybal Center on Palliative Care in Dementia.

Jarrin, R (Moderator), Ehrenfeld, JM, **Lazar, A**, Stone R. (2018). Panel at Artificial Intelligence Applications for Older Adults and People with Disabilities: Balancing Safety and Autonomy: A Workshop. The National Academy of Sciences, Engineering, and Medicine. Washington, D.C.

Turner, AM, Demiris GB, **Lazar A**, Reeder B. (2016). Engaging older adults in the design, implementation, and evaluation of Health IT. Panel presentation. American Medical Informatics Association (AMIA) Annual Meeting. <https://knowledge.amia.org/amia-63300-1.3360278/t002-1.3365085/f002-1.3365086/2499372-1.3365117/2498481-1.3365106?qr=1>

Reports

Harrington CN, Jelen B, **Lazar A**, Martin-Hammond A, **Pradhan A**, Reeder B, Siek K. (2021). Taking stock of the present and future of smart technologies for older adults and caregivers. Technical report, Computing Community Consortium (CCC): A computing Community Consortium (CCC) Transition Paper. 6 pages. <https://cra.org/ccc/wp-content/uploads/sites/2/2021/03/CCC-TransitionPaperOlderAdults.pdf>

I was invited to contribute to this white paper on caregiving, a topic selected by the Computing Community Consortium in response to the priorities described by the Biden administration. The Computing Research Association (CRA) has a Government Affairs team that gives quadrennial white papers, including this one, to relevant stakeholders including the Biden transition team, House Science Committee, congressional staffers, and relevant federal agencies.

FUNDING

Source: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

Title: Inclusive ICT Rehabilitation Engineering Research Center

Amount awarded: \$4,625,000 (credit: 20%)

Time period: 9/01/2023- 9/29/2028

Role: Co-investigator

Co-investigators: J. Bern Jordan (PI), Hernisa Kacorri

Source: National Science Foundation

Title: CAREER: Advancing Remote Collaboration: Inclusive Design for People with Dementia

Amount awarded: \$598,756

Time period: 3/31/2021-3/31/2026

Role: Principal investigator

Source: National Science Foundation

Title: CHS: Medium: Collaborative Research: Teachable Activity Trackers for Older Adults

Amount awarded: \$1,080,000

Time period: 8/19/2020-8/18/2024

Role: Co-Principal investigator

Source: National Science Foundation

Title: WORKSHOP: Doctoral Consortium at 2019 Conference on Computers and Accessibility

Amount awarded: \$20,000

Time period: 7/15/2019-6/30/2020

Role: Principal investigator

Source: National Science Foundation

Title: CHS: Small: Collaborative Research: Toolkits for Aging in Place for Older Retirees (TAIPOR)

Amount awarded: \$245,461

Time period: 8/01/2018-11/29/2022

Role: Principal investigator at UMD

Co-investigators: Katie Siek (PI, Indiana University Bloomington)

Source: National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR)

Title: Inclusive ICT Rehabilitation Engineering Research Center

Amount awarded: \$4,625,000 (credit: 20%)

Time period: 9/30/2018- 9/29/2023

Role: Co-investigator

Co-investigators: Gregg Vanderheiden (PI), Jonathan Lazar, J. Bern Jordan, Hernisa Kacorri

Source: Teach Access

Title: Curriculum Development Award

Time Period: 7/1/18-6/30/19

Amount awarded: \$5000

Role: Principal investigator

AWARDS

Best Paper Award for [C32] CHI (2023)

Best Paper Award for [C28] DIS (2022)

Honorable Mention Award for [J21] PACM HCI, CSCW (2021)

Honorable Mention Award CUI (2021)
Mentor of the Year Award, University of Maryland, College Park (2021)
Best Paper Award for [J16] TOCHI (2020)
Best Paper Nomination for [C23], ASSETS (2020)
Honorable Mention Award for [J15], PACM HCI, CSCW (2019)
Best Paper Award for [C16], CHI (2018)
Best Paper Award for [C15], CHI (2018)
Best Paper Award for [C14], CHI (2017)
Honorable Mention Award for [C13], CHI 2017
Honorable Mention Award for [C11], CSCW 2017
Excellent Paper Reviewer Acknowledgement at CHI (2016, 2017)
Best Paper award for [C7], DIS (2016)
Honorable Mention award for [C5], UbiComp (2015)
National Science Foundation **Graduate Research Program Fellowship** (2013 – 2015)
University of Washington **Outstanding Woman** 2013
National Library of Medicine Biomedical and Health Informatics **Predoctoral Fellow Training Grant** (2011 – 2013)

TEACHING

Undergraduate

INST 126: Introduction to Programming for Information Science –Fall 2019, Spring 2020

INST 352: Information User Needs and Assessment – Spring 2021, 2022, Fall 2023

INST 362: User-Centered Design – Fall 2017, 2018, 2021

Graduate

INST 728X: Special Topics in Information Studies: Designing Technology with Older People – Fall 2022, Spring 2024

INST 808: Seminar in Research Methods and Data Analysis – Spring 2019, Fall 2020

INST 828: Readings Seminar – Spring 2022, Spring 2024

ADVISING

Advisor or Committee Member

Undergraduate

Akila Jayanthan (Spring 2020 – Fall 2021) (Advisor for CS Honor's Thesis)

Master's

Crystal Marte (2021 – 2023) (Advisor)

Amelia Short (2020 – 2022) (Advisor)

Kausalya Ganesh (2019 – 2020) (Advisor)

Diva Smriti (2018 – 2019) (Committee member)

Alisha Pradhan (2017 – 2018) (Co-advisor)

Olivia Garahan (2018) (Committee member)

Doctoral

Elaine Czech, University of Bristol (2024) (External Examiner)

Ruipu Hu (2021 – present) (Advisor)

Pooja Upadhyay (2021 – 2023) (Advisor)

Hanuma Teja Maddali, Computer Science (2018 – 2023) (Advisor). Now at Headwall VR

Varsha Koushik, University of Colorado Boulder (2020 – 2022) (Dissertation Committee Member). Now Assistant Professor, Colorado College

Alisha Pradhan (2018 – 2022) (Advisor). Now Assistant Professor, New Jersey Institute of Technology

Emma Dixon (2018 – 2022) (Advisor). Now Assistant Professor, Clemson University

Ben Jelen, Indiana University Bloomington (2020-2021) (Dissertation Committee Member). Now Assistant Professor, Rose-Hulman Institute of Technology
Yuting Liao (2020) (Dissertation Committee Member). Now a Senior UX Researcher, Capital One
Gagan Jindal (2018 – 2020) (Committee Member). Now a Qualitative UX Researcher, Meta
Meethu Malu, Computer Science (2018) (Committee Member). Now a UX Researcher, Google

Research Mentoring

Undergraduate

Kibron Tesfatsion (Fall 2023- present)
Varanika Sharma (Summer 2022)
Oluwaseun Sule (Spring 2022 – Summer 2022)
Sameer Mustaqali (Spring 2021)
Ray Domjan (Summer 2020 – Spring 2021)
Renee Yang (Fall 2020 – Spring 2021)
Simrat Bhandari (Fall 2020)
Sathvik Ravi (Summer 2020)
Jack Zhao (Spring 2020)
Aarthi Ganesh (Spring 2020)
Jesse Anderson (Spring 2020 – Fall 2022)
Khushi Bhansali (Spring 2020 – August 2021)
Kian Abdi (Spring 2020)
Mary Punzalan (Fall 2019 – Summer 2020)
Immanuel Garcia (Fall 2019 – Spring 2020, Fall 2020)
Aakriti Khanal (Fall 2019)
James Gallier (Summer 2019 – Fall 2020)
Justin Kallungal (Summer 2019 – Fall 2019)
Stephen Dziwura (Summer 2019 – Fall 2019)
Simon Liao (Summer 2019)
Ben Yi (Summer 2019)
Sonia Morgan (Summer 2019)
Hong Tu (Summer 2019)
Ali Atai (Summer 2019)
Derek Yu (Summer 2019)
Taylor Breitzman (Summer 2019)
Devin Popa (Summer 2019)
Warren Ross III (Fall 2017 – Fall 2018)
Xiaoxiao Ouyang (Northwestern, University, 2016 – 2017)
Yitzhi Le (Northwestern, University, 2016 – 2017)
Magan Omar (Northwestern, University, 2016)
Karina Sirota (Northwestern University, 2015 – 2016)
Josephine Le (University of Washington, 2015)
Olga Vitruk (University of Washington, 2015)
Jinjing Liu (University of Washington, 2015)
Maureen Fallen (University of Washington, 2015)

Master's

Mital Kamani (Fall 2022 – Spring 2024)
Wan-Ting Lo (Fall 2022 – Spring 2023)
Haritha Malladi (Summer 2021 – Summer 2022)
Wei-Farn (Vivian) Tang (Fall 2021 – Spring 2022)
Shaan Chopra (2019 – 2020)

Aditi Shankar (2017 – 2018)

SERVICE

Reviewing for Journals

Journal of Applied Gerontology 2024

Proceedings of the ACM: Human Computer Interaction (PACM HCI), CSCW – 2018, 2020-2024

Transitions on Accessible Computing (TACCESS) – 2017, 2020 – 2022

Transactions on Social Computing – 2020

International Journal of Human-Computer Studies – 2019

Transactions on Computer-Human Interaction (TOCHI) – 2018, 2019

NordiCHI – 2018, 2020

Telematics and Informatics – 2018

Behavior and Information Technology – 2017, 2019

Interacting with Computers – 2017

International Journal of Human-Computer Interaction – 2017

International Journal of Human-Computer Studies – 2017

Western Journal of Nursing Research – 2016

Leadership Roles in Conferences

Associate Chair for ACM Conference on Human Factors in Computing Systems (2018 – 2020, 2023)

Co-organized doctoral consortium as part of the Organizing Committee for ACM SIGACCESS

Conference on Computers and Accessibility (2019)

Associate chair for ACM Conference on Designing Interactive Systems (2019)

Associate Chair for ACM SIGACCESS Conference on Computers and Accessibility (2018)

Organizing Committee for ACM/IEEE International Conference on Human-Robot Interaction (2018)

Program Committee for Conference on Pervasive Computing Technologies for Healthcare (2017)

Program Committee for ACM Conference on Human Factors in Computing Systems (2017)

Reviewing for Conferences

MobileHCI 2021

ACM Conference on Human Factors in Computing Systems (CHI) – 2013 – 2020

ACM Conference on Designing Interactive Systems (DIS) – 2016 – 2018, 2021, 2022

The ACM SIGACCESS Conference on Computers and Accessibility (ASSETS) – 2017

Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth) – 2017

ACM User Interface Software and Technology Symposium (UIST) – 2017

Reviewing for Agencies and Foundations

National Science Foundation Panelist – 2019 (two separate panels), 2021, 2022, 2023

IMLS field reviewer for community catalyst program – 2018

Reviewed grant proposal for the Retirement Research Foundation – 2018

Reviewed grant proposal for the UK Alzheimer's Society – 2018

Reviewed grant proposal for the Chilean National Science & Technology Commission – 2017

Campus Service

Diversity, Equity, and Inclusion Administration Search Committee (2024)

Parliamentarian (2019 – 2024)

Master's in HCI (HCIM) Committee (Fall 2021 – Spring 2022)

Accessibility Studies Committee (2020, 2022)

Information Science program committee (formerly Undergraduate Committee) (2018 – 2021)

Archives Search Committee (2017 – 2018)

Research, Centers and Collaboration Committee (RCC) (2017 – 2018)
Committee on Appointment, Promotion, and Tenure (APT) (2017 – present)

External Service

Makerspace and Technology Committee (2019 – present)
Knollwood Military Retirement Community, Washington, D.C.

Provide feedback and advise students in contributing to their efforts to sustain a makerspace and support technology use in their community.

AARP Livable community working group (2021 – 2023)

Subcommittee of the Senior Advisory Committee, College Park, Maryland

Based on the working group's needs, I gathered and synthesized survey instruments to assess older adults' information and communication technology access and use. Continuing to advise where useful as this group works towards a more age-friendly College Park.

Technology Working group (2022)

Leisure World retirement community, Silver Spring, Maryland

Provided insights as this group made decisions about technology purchases and programming in their retirement community based on my research on voice assistants.

Media Appearances and Interviews

Interviewee for Art of Aging Podcast. Episode titled *How Human-Centered Design Can Improve Technology for Aging Populations and Individuals with Cognitive Concerns with Amanda Lazar*. June 27, 2024. <https://abundantagingpodcast.com/podcasts/how-human-centered-design-can-improve-technology-for-aging-populations-and-individuals-with-cognitive-concerns/> Michael Hughes

Quoted in Being Patient (online community for Alzheimer's & dementia patients and caregivers) online article *How Reminiscence Therapy Can Help People With Dementia Remember The Past*. Jan 31st, 2024. <https://www.beingpatient.com/how-to-use-remembrance-therapy/> Simon Spichak

Quoted in WIRED article *My Parents' Dementia Felt Like the End of Joy. Then Came the Robots*. January 4th, 2024. <https://www.wired.com/story/parents-dementia-robots-warm-technology/> Kat McGowan

Featured on Flash Forward podcast, episode *Vanguard Estates: Can robots really help the Aging*. November 21st 2022. <https://www.flashforwardpod.com/2022/11/21/vanguard-estates-can-robots-really-help-the-aging/> Rose Eveleth

Quoted in New York Times article *V.R. 'Reminiscence Therapy' Lets Seniors Relive the Past*. May 6th 2022. <https://www.nytimes.com/2022/05/06/well/mind/virtual-reality-therapy-seniors.html> Matt Fuchs

Mention of my work ([C8]) in the New Yorker Article *What Robots Can— and Can't—Do for the Old and Lonely*. May 31st 2021
<https://www.newyorker.com/magazine/2021/05/31/what-robots-can-and-cant-do-for-the-old-and-lonely> Katie Engelhart