

# AMANDA LAZAR

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## APPOINTMENTS

**Assistant Professor** 2017-Present  
College of Information Studies  
University of Maryland, College Park

**Affiliate**, Department of Computer Science 2018-Present  
University of Maryland, College Park

## EDUCATION

**Northwestern University**, Postdoctoral Fellow in Communication Studies & Electrical Engineering and Computer Science 2015-2017

**University of Washington**, PhD in Biomedical and Health Informatics 2011-2015

**University of California, San Diego**, B.S. in Electrical Engineering 2006-2011

## PUBLICATIONS

### 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.

### JOURNAL ARTICLES

[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).

[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 (PACM HCI)*, CSCW.

[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)*.

[J22] 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 (PACM HCI)*, CSCW. - **Honorable Mention Award**

[J21] 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*.

- [J20] **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)*.
- [J19] **Lazar A**, Brewer RN, Kacorri H, Hong J, Punzalan MND, Mahathir M, Vander Hyde O, Ross III W. How Content Authored by People with Dementia Affects Attitudes towards Dementia. (2021). *Proceedings of the ACM: Human Computer Interaction (PACM HCI), CSCW*.
- [J18] Ganesh K, **Lazar A**. (2021). The Work of Workplace Disclosure: Invisible Chronic Conditions and Opportunities for Design. *Proceedings of the ACM: Human Computer Interaction (PACM HCI), CSCW*.
- [J17] Su NM, **Lazar A**, Irani L. Critical Affects: Tech Work Emotions Amidst the Techlash. (2021). *Proceedings of the ACM: Human Computer Interaction (PACM HCI), CSCW*.
- [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 (TOCHI)*. 27(4). – **Best Paper Award**
- [J15] Choi Y, **Lazar A**, Demiris G, Thompson HJ. (2019). Emerging Smart Home Technologies to Facilitate Engaging with Aging. *Journal of Gerontological Nursing*. 45(12).
- [J14] **Lazar A**, Dixon E. (2019). Safe Enough to Share: Setting the Dementia Agenda Online. *Proceedings of the ACM: Human Computer Interaction (PACM HCI), CSCW - Honorable Mention Award*
- [J13] 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 (PACM HCI), CSCW*.
- [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).
- [J11] **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 Conference on Computer Supported Cooperative Work and Social Computing (CSCW)*.
- [J10] **Lazar A**, Thompson HJ, Demiris G. (2018). Design Recommendations for Recreational Systems Involving Older Adults Living with Dementia. *Journal of Applied Gerontology*. 37(5).
- [J9] 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).
- [J8] 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).
- [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*. 38(6).

[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).

[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).

[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.

[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*. 21(2).

[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).

[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).

#### 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.

[C32] Maddali HT, **Lazar A**. (2023). Understanding Context to Capture when Reconstructing Meaningful Spaces for Remote Instruction and Connecting in XR. *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI)*. - **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. *Proceedings of the Hawaii International Conference on System Sciences (HICSS)*.

[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. *Proceedings of the Seventeenth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '23)*.

[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. *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS)*.

[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. *Proceedings of the ACM Conference on Designing Interactive Systems (DIS)*. - **Best Paper Award**

[C27] Dixon E, Anderson J, Blackwelder D, Radnofsky ML, **Lazar A**. (2022). Barriers to Online Dementia Information and Mitigation. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.

- [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. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C25] **Lazar A**, Pradhan A, Jelen B, Siek KA, Leitch A. Studying the Formation of an Older Adult-Led Makerspace. (2021). *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [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. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C23] Dixon E, **Lazar A**. (2020). The Role of Sensory Changes in Everyday Technology use by People with Mild to Moderate Dementia. *Proceedings of the ACM SIGACCESS Conference on Computers and Accessibility (ASSETS) – Best Paper Nominee*
- [C22] Dixon E, **Lazar A**. (2020). Approach Matters: Linking Practitioner Approaches to Technology Design for People with Dementia. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C21] Pradhan A, Jelen B, Siek K, Chan J, **Lazar A**. (2020). Understanding Older Adults’ Participation in Design Workshops. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [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. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C19] Maddali HT, **Lazar A**. (2020). Sociality and Skill-Sharing in the Garden. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C18] Bardzell J, Bardzell S, **Lazar A**, Su NM. (2019). (Re-)Framing Menopause Experiences for HCI and Design. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C17] **Lazar A**, Su NM, Bardzell J, Bardzell S. (2019). Parting the Red Sea: Sociotechnical Systems and Lived Experiences of Menopause. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [C16] **Lazar A**, Feuston J, Edasis C, Piper AM. (2018). Making as Expression: Informing Design with People with Complex Communication Needs through Art Therapy. *Proceedings of the Conference on Human Factors in Computing Systems (CHI) - Best Paper Award*
- [C15] Diaz M, Johnson I, **Lazar A**, Piper AM, Gergle D. Addressing Age-Related Bias in Sentiment Analysis. (2018). *Proceedings of the Conference on Human Factors in Computing Systems (CHI) - Best Paper Award*
- [C14] **Lazar A**, Edasis C, Piper AM. (2017). A Critical Lens on Dementia and Design in HCI. *Proceedings of the Conference on Human Factors in Computing Systems (CHI) - Best Paper Award*
- [C13] **Lazar A**, Edasis C, Piper AM. (2017). Supporting People with Dementia in Digital Social Sharing. *Proceedings of the Conference on Human Factors in Computing Systems (CHI) - Honorable Mention Award*

- [C12] **Lazar A**, Nguyen D. (2017). Successful Leisure: Understanding Older Adults' Motivations to Engage in Leisure Activities. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.
- [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. *Proceedings of the Conference on Computer Supported Cooperative Work & Social Computing (CSCW)*. - **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.
- [C9] Demiris G, Thompson HJ, **Lazar A**, Lin Shih-Yin. (2016). Evaluation of a Digital Companion for Older Adults with Mild Cognitive Impairment. *Proceedings of the American Medical Informatics Association Annual Conference (AMIA)*.
- [C8] **Lazar A**, Thompson HJ, Piper AM, Demiris G. (2016). Rethinking the Design of Robotic Pets for Older Adults. *Proceedings of the Designing Interactive System Conference (DIS)*.
- [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. *Proceedings of the Designing Interactive System Conference (DIS)* - **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 International Conference on Foundations of Augmented Cognition: Neuroergonomics and Operational Neuroscience, Part II – Lecture Notes in Computer Science, Volume 9744.
- [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)* - **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.
- [C3] Su, NM, Liu LS, **Lazar A**. (2014). Mundanely Miraculous: The Robot in Healthcare. *Proceedings of the Nordic Conference on Human-Computer Interaction (NordiCHI)*.
- [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 International Conference on Software Engineering (ICSE).
- [C1] Alankus G, **Lazar A**, May M, Kelleher C. (2010). Towards Customizable Games for Stroke Rehabilitation. *Proceedings of the Conference on Human Factors in Computing Systems (CHI)*.

## SELECT WORKSHOPS AND PANELS

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

Jarrin R, 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*.

**Lazar A**, Toombs A, Morrissey K, Kenning G, Boger J, Brankaert R. (2018). HCIxDementia Workshop: Engaging People Living with Dementia. Workshop at the *Conference on Human Factors in Computing Systems (CHI)*.

Morrissey K, **Lazar A**, Boger J, Toombs A. (2017). HCIxDementia Workshop: The Role of Technology and Design in Dementia. Workshop at the *Conference on Human Factors in Computing Systems (CHI)*.

## FUNDING

**NIDILRR**, Inclusive ICT Rehabilitation Engineering Research Center

Role: Co-investigator                      2023-2028                      \$4,625,000

**National Science Foundation**, CAREER: Advancing Remote Collaboration: Inclusive Design for People with Dementia

Role: PI    2021-2026    \$598,756

**National Science Foundation**, CHS: Medium: Collaborative Research: Teachable Activity Trackers for Older Adults

Role: Co-PI    2020-2025    \$1,080,000

**National Science Foundation**, Workshop: Doctoral Consortium for ASSETS 2019

Role: PI    2019-2020    \$20,000

**NIDILRR**, Inclusive ICT Rehabilitation Engineering Research Center

Role: Co-investigator                      2018-2023    \$4,625,000

**National Science Foundation**, Toolkits for Aging in Place for Older Retirees

Role: PI at UMD    2018-2021    \$254,446

## TEACHING

**Instructor.** University of Maryland, College Park, MD    8/17-present

INST 362: User-Centered Design (Undergraduate)

INST 126: Introduction to Programming for Information Professionals (Undergraduate)

INST 352: Information User Needs and Assessment

INST 728X: Designing Technologies with Older People (Graduate)

INST 808: Seminar in Research Methods and Data Analysis (Graduate)

## SERVICE

### PROGRAM COMMITTEE

- Doctoral Colloquium Co-Chair, ACM SIGACCESS Conference on Computers and Accessibility (ASSETS), 2019
- Associate Chair, ACM Conference on Human Factors in Computing Systems (CHI), 2018-2020, 2023

- Associate Chair, ACM Conference on Designing Interactive Systems (DIS), 2019
- Associate Chair, ACM Conference on Computers and Accessibility (ASSETS), 2018
- Local Organizing Committee, ACM/IEEE International Conference on Human-Robot Interaction (HRI), 2018
- Technical Program Committee, EAI International Conference on Pervasive Computing Technologies for Healthcare (Pervasive Health), 2017

#### GRANT REVIEWER

National Science Foundation panel reviewer	2019 (2x), 2021, 2022, 2023
IMLS field reviewer	2018

#### UNIVERSITY SERVICE

HCIM (Master of Science in Human-Computer Interaction) Committee	2021-2022
Accessibility Studies Committee	2020-21, 2023
Parliamentarian	2019-present
Information Science program committee (formerly Undergraduate Committee)	2018-2021
Archives and Digital Curation Search Committee	2017-2018
Research, Centers and Collaboration Committee (RCC)	2017-2018