

**Curriculum Vitae**  
**Megan Bayles, M.S.**  
Graduate Research Assistant  
College of Applied Health Sciences  
University of Illinois Urbana-Champaign  
mbayles2@illinois.edu  
(207)751-2727

**EDUCATION**

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<b>January 2021- Present</b>	<b>Doctor of Philosophy</b> <b>Community Health</b> Community Health University of Illinois Urbana-Champaign
<b>December 2020</b>	<b>Master of Science</b> <b>Community Health</b> Community Health University of Illinois at Urbana-Champaign
<b>May 2017</b>	<b>Bachelor of Arts and Science with Honors</b> <b>Minor: Statistics</b> Florida State University Phi Sigma Theta National Honor Society

**OVERVIEW**

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**Research Interestes**

Human Factors Psychology  
Human-Robot Interaction  
Technology Design  
Design for People with Disability  
Older Adult Populations  
Veterans  
Healthy & Independent Aging

**Research Methods and Analyses**

Mixed Method Study Design  
Qualitative  
Quantitative  
Participatory Design  
Heuristic Analyses  
Critical Task Analyses  
Comparitive Analyses

## ACADEMIC PROFILE

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### University of Illinois Urbana-Champaign

**Master of Science in Community Health** **Fall 2018 – Spring 2021**  
*Human Factors and Aging Laboratory*  
*Director: Dr. Wendy A. Rogers*  
*Bayles, M. A. (2021). A holistic understanding of older adults' acceptance of domestic robots*

### Florida State University

**Honors Thesis** **Fall 2016 – Spring 2017**  
*Attention and Training Laboratory*  
*Title: Malleability of measures of cognitive ability*  
*Director: Dr. Walter Boot*  
*Bayles, M. A. (2017). Malleability of measures of cognitive ability.*

**Undergraduate Research Assistant** **August 2015 – May 2017**  
**Directed Independent Study**  
*Attention and Training Laboratory*  
*Director: Dr. Walter Boot's*

**Undergraduate Research Assistant** **January 2016- April 2016**  
**Directed Independent Study**  
*Anxiety and Behavioral Health Clinic Research Laboratory*  
*Director: Dr. Brad Schmidt*

## PROFESSIONAL PROFILE

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**Research Scientist** **May 2017 – May 2018**  
**Center for Research and Education on Aging and Technology Enhancement Laboratory**  
*Florida State University*  
*Mind Frontiers a cognitive adherence study; Comparative Effectiveness a brain training study; and PRISM a study to implement technology to aid socially isolated older adults*

**Lab Coordinator** **July 2016 – May 2017**  
**Florida Department of Transportation Research Laboratory**  
*Florida State University*  
*Research to design and implement tip cards to educate older adult drivers on road signs and signals according to a human factor check list*

### Honors, Awards, and Fellowships

Microsoft Fellowship | Lighthouse Project  
*University of Illinois Urbana-Champaign 2018-2021*  
*Goal: Increase Digital Accessibility on Campus*

### **Certifications**

Information Accessibility Design and Policy | IADP  
Collaborative Institutional Training Initiative | CITI  
Health Insurance Portability and Accountability Act | HIPPA

### **Analytical Software and Programming Languages**

SPSS  
SAS  
Python  
HTML  
MAXQDA

### **Student Research Mentorship**

#### **Jennifer Lee**

*University of Illinois Urbana-Champaign*  
*Honors Thesis*  
*Undergraduate Research Symposium*  
*Title: Understanding Older Adults' Consideration of Robot Appearance and Function*

#### **Rebecca Goneh**

*University of Illinois Urbana-Champaign*  
*Undergraduate Research Symposium*  
*Title: Exploring technology support and strategies for promoting independence and quality of life of older adults with and without disabilities*

### **Invited Presentations**

Global Accessibility Awareness Day 2019

### **Product Development and Testing**

Hello Robot | Stretch

### **Societies**

Human Factors and Ergonomics Society

### **Journal Publications**

Koon, L., Bayles, M., Remillard, E., & Rogers, W. (2020). Identifying Activity Support Needs for individuals Aging With Disability: Subject Matter Expert Interviews. *Innovation in Aging*, 4(Suppl 1), 600.

Rogers, W.A., Kadylak, T., Bayles, M.A. Maximizing the benefits of participatory design for human robot interaction research with older adults. *Human Factors*. Manuscript ID: (HF-20-6966).

### **Book Chapters**

Wiczorek, R., Bayles, M.A., & Rogers, W. A. (2020). Domestic robots for older adults: Design approaches and recommendations. In L. Moody, A. Woodcock, D. McDonagh, L.C. Jain (Eds.), *Design of assistive technology for ageing populations* (pp., Springer. [https://doi.org/10.1007/978-3-030-26292-1\\_11](https://doi.org/10.1007/978-3-030-26292-1_11)

### **Conference Presentations**

Shende, S. A., Koon, L. M., Bayles, M. A., Singleton, J. L., & Rogers, W. A. (2021, April). *Exploring Health Challenges & Response Strategies Among Older Deaf Adults*. HFES International Symposium on Human Factors and Ergonomics in Health Care (virtual).

Bayles, M.A., Kadylak, T, Lee, J, Rogers, W.A. (2021, April). *Evaluating Older Adults' Attitudes Toward Domestic Robot Assistance for Healthcare Tasks*. HFES International Symposium on Human Factors and Ergonomics in Health Care (online). <https://www.hcs2021.org/>

Bayles, M., Rogers, W., & Kadylak, T. (2021). *Exploring Social and Assistive Domestic Robots for Older Adults: Robot Sociability, Trust, and Acceptance*. *Innovation in Aging*, 5(Suppl 1), 302-302.

Koon, L., Shende, S., Rogers, W., Singleton, J., & Bayles, M. (2021). *Technology Solutions for Everyday Barriers Among Deaf Older Adults*. *Innovation in Aging*, 5(Suppl 1), 425-425.

Kadylak, T., Bayles, M.A., Galoso, L., Mahajan, H., Chan, M., Kemp, C.C., Edsinger, A., & Rogers, W.A. (2021, April). *Exploring the potential of the Stretch mobile robot for older adults with mobility disabilities*. HFES International Symposium on Human Factors and Ergonomics in Health Care (online). <https://www.hcs2021.org/>

Kadylak, T., Bayles, M. A., Rhee, D., Rogers, W. A. (2020, October). Considerations for designing robots for older adults. 12th World Conference of Gerontechnology, Trondheim, Norway. (conference held virtually).

Rogers, W. A., & Bayles, M. (2019, November). Design and use of robots to assist older adults with healthcare tasks. Gerontological Society of America Annual Meeting, Austin, TX.

## Technical Reports and Tools

Shende, S.A., Bayles, M. A., Koon, L. M., Singleton, J.L., & Rogers, W. A. (2021). *Coding Scheme for the Deaf Older Adults in the Aging Concerns, Challenges, and Everyday Solution Strategies (ACCESS) Study* (TechSAge-TR-2101). Rehabilitation Engineering Research Center on Technologies to Support Aging-in-Place for People with Long-Term Disabilities.

Bayles, M. A., Remillard, E. T., Koon, L. M., Singleton, J. L., & Rogers, W. A. (2021). *Subject matter expert interviews for the ACCESS extension to new participant groups* (TechSAge-TR-2103). Rehabilitation Engineering Research Center on Technologies to Support Aging-in-Place for People with Long-Term Disabilities.

Bayles, M.A., Kadylak, T., Mahajan, H., & Rogers, W. A., (2020). *Unboxing Stretch REI at the McKechnie Family LIFE Home* (HFA-TR-2001). Champaign, IL: University of Illinois Urbana-Champaign, College of Applied Health Sciences, Human Factors and Aging Laboratory. Report disseminated to Hello Robot Inc. Founders Dr. Aaron Edsinger (CEO) and Dr. Charlie Kemp (CTO).

Bayles, M.A., Kadylak, T., Liu, S., Hasan, A., Driggs-Campbell, K., Rogers, W.A., (2022). *Wayfinding Assistance for the Visually Impaired via Mobile Robots*. (HFA-TR). Human Factors and Aging Laboratory. University of Illinois Urbana-Champaign.

TechSAge (2019). *TechSAge Tool: Heuristic Analysis (VI)*. Rehabilitation Engineering Research Center on Technologies to Support Aging-in-Place for People with Long-Term Disabilities.

TechSAge (2019). *TechSAge Tool: Design Iterations (VI)*. Rehabilitation Engineering Research Center on Technologies to Support Aging-in-Place for People with Long-Term Disabilities.

Bayles, M. A., Mitzner, T. L. & Rogers, W. A. (2021). *TechSAge Tool: Conducting Research with Older Adults Aging with Sensory and Mobility Disabilities*. Rehabilitation Engineering Research Center on Technologies to Support Aging-in-Place for People with Long-Term Disabilities.