



**Exponent**<sup>®</sup>  
Engineering & Scientific Consulting

**Edie Sanders, Ph.D.**

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## Professional Profile

Dr. Sanders has expertise in cognitive psychology including learning, memory, perception, emotion, and decision-making. She has analyzed how such processes change with age and how such changes may affect the way a person interacts with products and/or their environment. At Exponent, she applies her expertise with projects involving memory recall and recognition, warnings and instructions evaluations, consumer product and medical device user testing, and driver and pedestrian behavior, with specific expertise in assessing such interactions with older adult populations.

Dr. Sanders earned her Ph.D. in Cognitive Psychology from Florida State University and completed post-doctoral work at Weill Cornell Medicine. Her research focused on the benefits and limitations of technology to support independence and wellbeing in older adulthood. She has investigated a variety of technologies – including wearable devices – supporting prospective memory, transportation, and health. She is experienced in experimental techniques including quantitative and qualitative usability research, intervention efficacy trials, and cognitive assessments targeting memory and reasoning. She is proficient in experimental design, statistical analysis, scientific writing and communication, and project management.

## Academic Credentials & Professional Honors

Ph.D., Cognitive Psychology, Florida State University, 2024

M.S., Cognitive Psychology, Florida State University, 2022

B.S., Psychology, University of Richmond, 2018

2024, CREATE Graduate Student Investigator Pilot Research Grant

2023, Mark & Gloria Charness Cognitive Science Award

2023, Runner-up in the RESNA Student Scientific Paper Competition

2023, Ermine M. Owenby, Jr. Travel Award

2022, Best Poster Presenter in STEM, Florida State University Fellows Forum

2018, Summa Cum Laude with Psychology Honors, University of Richmond

2018, Outstanding Undergraduate Student Award in Psychology

2017, John Neasmith Dickinson Memorial Research Award in Psychology

2017, Arts & Sciences Summer Research Fellowship

## Prior Experience

Postdoctoral Research Associate, Center on Aging and Behavioral Research, Weill Cornell Medicine, 2024-2025

Research Assistant, Center for Enhancing Neurocognitive Health, Networks, and Community Engagement (ENHANCE), Florida State University, 2019-2024

Lab Coordinator, Berry Lab, University of Richmond, 2017-2019

## Professional Affiliations

2024, American Psychological Association, Division 20 Executive Committee Awards Co-Chair

2024, International Society for Gerontechnology

2023, Human Factors and Ergonomics Society

2023, Rehabilitation Engineering and Assistive Technology Society of North America

2021, American Psychological Association Division 5 Member (Quantitative and Qualitative Methods)

2020, The Gerontological Society of America

2020, American Psychological Association Division 21 Member (Applied Experimental and Engineering Psychology)

2018, American Psychological Association Division 3 Member (Experimental Psychology and Cognitive Science)

2018, American Psychological Association Division 20 Member (Adult Development and Aging)

## Publications

Sanders, E. C., & Boot, W. R. (in press). Technology support preferences for prospective memory among older adults with subjective cognitive complaints. *Innovation in Aging*.

Sanders, E. C., & Boot, W. R. (2025). Usability of the smartwatch as a prospective memory aid for cognitively diverse older adults. *Journal of Applied Gerontology*.

Sanders, E. C., Stuart, R. K., & Boot, W. R. (2024). Designing a tip card to facilitate the use of a voice-activated assistant (VAA) for prospective memory support. *Gerontechnology*.

Sanders, E. C., Harrell, E. R., & Boot, W. R. (2023). Does repeated exposure to messages about cognitive training efficacy facilitate a placebo effect? *Journal of Cognitive Enhancement*.

Fowe, I. E., Sanders, E. C., & Boot, W. R. (2023). Understanding barriers to the collection of mobile and wearable device data to monitor health and cognition in older adults: A scoping review. *Journal of the American Medical Informatics Association Joint Summits on Translational Science proceedings*.

Sanders, E. C., Stuart, R., Exum, A., & Boot, W. R. (2022). Enhancing neurocognitive health, abilities, networks, & community engagement for older adults with cognitive impairments through technology: A

scoping review introducing the ENHANCE Center. *Disability and Rehabilitation: Assistive Technology*.

Zakrzewski, A. C., Sanders, E. C., & Berry, J. M. (2021). Evidence for age-equivalent and task-dissociative metacognition in the memory domain. *Frontiers in Psychology*.

Sanders, E. C., & Berry, J. M. (2020). Evidence for an age-related positivity effect in metacognitive judgments. *Journals of Gerontology, Series B: Psychological Sciences*.

Onafraychuk, D., Sanders, E. C., Harrell, E. R., & Boot, W. R. (2020). Exploring individuals' willingness to engage in interventions to improve cognitive health and prolong late-life independence: A replication and extension of Harrell, Kmetz, and Boot (2019). *Journal of Cognitive Enhancement*.

## **Presentations**

Sanders, E. C., & Boot, W. R. (2024). Technology and Prospective Memory: Attitudes among Older Adults with Subjective Cognitive Impairment. Poster presented at the Gerontological Society of America 2024 Annual Scientific Meeting. Seattle, WA.

Sanders, E. C., Mois, G., Rogers, W. A., & Boot, W. R. (2024). Differential Digital Divide: Age Gaps across Existing and Emerging Technologies. Poster presented at the Gerontological Society of America 2024 Annual Scientific Meeting. Seattle, WA.

Sanders, E. C., & Boot, W. R. (2023). Usability of the Smartwatch as a Reminder Aid for Older Adults with Diverse Cognitive Abilities. Poster presented at the Gerontological Society of America 2023 Annual Scientific Meeting. Tampa, FL.

Sanders, E. C., & Boot, W. R. (2023). Investigating Usability of the Smartwatch as an Everyday Prospective Memory Aid for Older Adults with and without Cognitive Impairment. Paper presented at the RESNA 2023 Annual Conference. New Orleans, LA.

Sanders, E. C., & Boot, W. R. (2023). Investigating Usability of the Smartwatch as an Everyday Prospective Memory Aid for Older Adults with and without Cognitive Impairment. Poster presented at the 2023 Institute for Successful Longevity Student Poster Day. Tallahassee, FL.

Sanders, E. C., Stuart, R. K., & Boot, W. R. (2022). Accounting for Diversity in Cognitive Status in the Design and Evaluation of Inclusive Technology-Based Prospective Memory Solutions. Talk presented at the Gerontological Society of America 2022 Annual Scientific Meeting. Indianapolis, IN.

Fowe, I. E., & Sanders, E. C. (2022). Understanding Older Adults' Attitudes toward Mobile and Wearable Technologies to Support Health and Cognition. Talk presented at the Gerontological Society of America 2022 Annual Scientific Meeting. Indianapolis, IN.

Sanders, E. C., & Boot, W. R. (2022). Developing and Testing Novel Technology Solutions for Older Adults with Cognitive Impairments. Poster presented at the 2022 Council of Florida Graduate Schools Statewide Research Symposium. Orlando, FL.

Sanders, E. C., & Boot, W. R. (2022). Developing and Testing Novel Technology Solutions for Older Adults with Cognitive Impairments. Poster presented at the Florida State University 2022 Fellows Forum. Tallahassee, FL.

Sanders, E. C., Harrell, E. R., & Boot, W. R. (2022). Does Repeated Exposure to Messages about Cognitive Training Efficacy Facilitate a Placebo Effect? Poster presented at the 2022 Cognitive Aging Conference. Atlanta, GA.

Sanders, E. C., Zhang, S., & Boot, W. R. (2022). Digital Reminders for Everyday Activity Memory (DREAM): Results from a Needs Assessment Study. Poster presented online at the 13th World

Conference of Gerontechnology. Daegu, Korea.

Sanders, E. C., Stuart, R., Exum, A., & Boot, W. R. (2021). Technology Supporting Cognitively Impaired Adults: A Scoping Review for the ENHANCE Center. Poster presented at the Gerontological Society of America 2021 Annual Scientific Meeting Online.

Sanders, E. C., & Berry, J. M. (2020). Evidence for an Age-Related Positivity Effect in Metacognitive Confidence Judgments. Poster presented at the Gerontological Society of America 2020 Annual Scientific Meeting Online.

Wolfe, H., Sanders, E. C., & Berry, J. M. (2018). Neglecting Negativity: Age Differences in the Role of Emotionally-Valenced Words in Paired-Associated Memory. Poster presented at the 2018 Cognitive Aging Conference. Atlanta, GA.

## Peer Reviews

The Gerontologist