

2013 2023

Co-Investigator, University of South Florida Health, Morsani College of Medicine,

RESEARCH EXPERIENCE

The University of Akron, Akron, OH

- 2001 2002 *Graduate Research Assistant*, Department of Psychology, The University of Akron, Akron, OH. Area of Investigation: Visual Attention/Psychological Refractory Period
- 2001 2002 *Graduate Research Assistant*, Department of Psychology, The University of Akron, Akron, OH. Area of Investigation: Time-of-Day Effects on Cognition
- 2000 *Research Assistant*, Department of Psychology, The University of Akron, Akron, OH
Undergraduate Faculty Advisor: Jan D. Yoder, Ph.D.
- 1999 *Research Assistant*, Department of Psychology, The University of Akron, Akron, OH
Undergraduate Faculty Advisor: Paul E. Levy, Ph.D.

REFEREED PUBLICATIONS

*Denotes student author

Published Manuscripts

- Bell, K. L., Lister, J. J., Conter, R., **Harrison Bush, A. L.** 1). Cognitive event-related potential responses differentiate older adults with and without probable mild cognitive impairment. *Experimental Aging Research*, doi: 10.1080/0361073X.2020.1861838.
- *Sadeq, N. A., *Valdés, E. G., **Harrison Bush, A. L.**, & Anzel, R. (2018). The role of personality in a regular cognitive monitoring program. *Alzheimer's Disease & Associated Disorders*, 32(3), 226-231. doi: 10.1097/WAD.0000000000000236.
- Edwards, J. D., Lister, J. J., *Elias, M. N., *Tetlow, A. M., *Sardina, A. L., *Sadeq, N. A., *Brandino, A. D. & **Harrison Bush, A. L.** (2017). Auditory processing of older adults with probable mild cognitive impairment. *Journal of Speech, Language, and Hearing Research*, 60, 1427-1435. doi: 10.1044/2016_JSLHR-H-16-0066.
- Lister, J. J., **Harrison Bush, A. L.**, Anzel, R., *Matthews, C. R., & Edwards, J. D. (2016). Cortical auditory evoked responses of older adults with and without mild cognitive impairment. *Clinical Neurophysiology*, 127, 1279-1287. doi: 10.1016/j.clinph.2015.11.007.
- *Valdés, E. G., Anzel, R., Lister, J. J., Gamaldo, A., **Harrison Bush, A. L.**, & Edwards, J. D. (2016). The efficacy of cognitive speed of processing training among older adults with psychometrically-defined mild cognitive impairment. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 12(7), 426-427. <https://doi.org/10.1016/j.jalz.2016.06.812>.
- *Valdés, E. G., *Sadeq, N. A., **Harrison Bush, A. L.**, Morgan, D., & Anzel, R. (2016). Regular cognitive self-monitoring in community-dwelling older adults using an internet-based tool. *Journal of Clinical and Experimental Neuropsychology*, 38(9), 1026-1037. doi: 10.1080/13803395.2016.1186155.
- Harrison Bush, A. L.**, Lister, J. J., Lin, F. R., Betz, J., & Edwards, J. D. (2015). Peripheral hearing and cognition: Evidence from the Staying Keen in Later Life (SKILL) study. *Ear and Hearing*, 36(4), 395-407. doi: 10.1097/AUD.0000000000000142.
- Allen, P. A., Grabbe, J., McCarthy, A., **Harrison Bush, A. L.**, & Wallace, B. (2008). The early bird does not get the worm: Time-of-gnitive processing. *The American Journal of Psychology*, 121(4), 551-564. PMID: 19105578.

Harrison Bush, A. L., Allen, P. A., Kaut, K. P., & Ogrocki, P. K. (2007). Influence of mild cognitive impairment on visual word recognition. *Aging, Neuropsychology, and Cognition* 14(4), 329-352. PMID: 17612812.

Invited Manuscripts

Fulton, S. E., Lister, J. J., **Harrison Bush, A. L.**, Edwards, J. D., & Andel, R. (2015). Mechanisms of the hearing cognition relationship. In *Seminars in Hearing* (Vol. 36, No. 03, pp. 140-149). Thieme Medical Publishers. doi: 10.1055/s-0035-1555117.

Invited Articles

Lister, J.J., Harrison Bush, A.L., **Harrison Bush, A. L.** (2019). Recognizing Cognitive Impairment During Hearing Care. *ASHA Leader*, 20 - 23. doi: <https://doi.org/10.1044/leader.AEA.24072019.20>

White Papers, Manuals, and Other Documents

Thompson, S., & **Harrison Bush, A. L.** (2010). Beginning Facilitator Manual & Companion Workbook. Lakeland, FL: Genie Publishing.

Submitted for Publication

Sigismondo, F. A., Jones Lister, J., Conover, L., & Harrison Bush, A. (under review). The relationship among hearing loss, depression, and loneliness/social isolation. *Journal of the American Academy of Audiology*.

GRANTS/FUNDING/SUPPORT

MPIs Multiple Primary Investigators

Co-Is Co-Investigators

(PI), Lister, J. J., **Harrison Bush, A. L.**, Plassman, B., Woods, A. J., **Harrison Bush, A. L.** (Co-Is). Cognitive Training to Reduce the Incidence of Cognitive Impairment in Older Adults. (R01AG070349) National Institute of Health - National Institute on Aging: \$45,362,843.00
Funded (February 2021 - February 2025)

Harrison Bush, A. L. (PI), Lister, J. J., **Harrison Bush, A. L.** (Co-Is). Cognitive Training to Reduce the Incidence of Cognitive Impairment in Older Adults: Blood-Based Biomarker Supplement. (AG070349) National Institute of Health - National Institute on Aging: \$3,374,990.00

Lister, J. J. (PI), **Harrison Bush, A. L.**, **Harrison Bush, A. L.** (Co-Is), Delgado, D., & Sadeq, N. (Co-Is). Early Indicators of Cognitive Change.

Cogstate Academic Research Support Program Award

Gift of Service **Cogstate Brain Health Assessment Licenses** (2020 - Present)

Edwards, J. D., Morgan, D. (MPIs), Andel, R., **Harrison Bush, A. L.** (Co-Is), Hudak, E., Ji, M., & **Harrison Bush, A. L.** (Co-Is). : A Randomized Clinical Trial of

Speed of Processing Training for the Prevention of Mild Cognitive Impairment or Dementia.

National Institute of Health - National Institute of Aging: \$2,701,645.00

Funded (December 2018 - December 2019)

Andel, R., & **Harrison Bush, A. L.** (MPIs). Computer-Based Assessment of Cognition in Community-Dwelling, Cognitively Normal Older Adults Using the Cogstate Brief Battery.

Funded (July 2015 - July 2016; grant renewal)

Lister, J. J., **Harrison Bush, A. L.** (MPIs), Edwards, J. D., & Andel, R. (Co-Is). Hearing & Cognition: Auditory ERP Biomarkers for Early Cognitive Decline.

Funded (July 2015 - July 2016; grant renewal)

Andel, R., & **Harrison Bush, A. L.** (MPIs). Computer-Based Assessment of Cognition in Community-Dwelling, Cognitively Normal Older Adults Using the Cogstate Brief Battery.

Funded (July 2014 - July 2015; grant renewal)

Lister, J. J., **Harrison Bush, A. L.** (MPIs), Edwards, J. D., & Andel, R. (Co-Is). Hearing & Cognition: Auditory ERP Biomarkers for Early Cognitive Decline.

University of South Florida Health

Funded (July 2014 - July 2015; grant renewal)

Gamaldo, A., Andel, R. (MPIs), & **Harrison Bush, A. L.** (Co-I). Computerized Cognitive Batteries in Older Blacks.

Funded (July 2014 - July 2015)

Andel, R., & **Harrison Bush, A. L.** (MPIs). Computer-Based Assessment of Cognition in Community-Dwelling, Cognitively Normal Older Adults Using the Cogstate Brief Battery.

Funded (July 2013 - July 2014)

Lister, J. J., **Harrison Bush, A. L.** (MPIs), Edwards, J. D., & Andel, R. (Co-Is). Hearing & Cognition: Auditory ERP Biomarkers for Early Cognitive Decline.

Funded (July 2013 - July 2014)

Janke, M., **Harrison Bush, A. L.** (MPIs), Hobbs, K., & Martinez, S. (Student Co-Is). Multisensory Environments for Individuals with Dementia.

University of South Florida Polytechnic Challenge Grant.

Funded (February 2012 - February 2013)

Armitage, W. (PI), **Harrison Bush, A. L.**, Ejnoui, A., Fehr, R., Larsen, J., Plank, R., Weitzenfeld, A., Laniel, M., DuMas, P., & Wright, N. (Co-Is). Intra-Campus Individual Transport (ICIT) System.

University of South Florida Polytechnic Innovation Challenge Grant.

Funded (October 2010 - October 2011)

CONFERENCE PRESENTATIONS

*Denotes student author

Invited Keynote Presentations

Award Recipients

Asta, A., Lister, J. J., **Harrison Bush, A. L.**, Andel, R., Matthews, C. R., & Edwards, J. D. (2016). Cortical Auditory Evoked Responses of Older Adults with and without Mild Cognitive Impairment. Poster presented at the

*Sadeq, N. A., Lister, J. J., **Harrison Bush, A. L.**, *Matthews, C. R., Andel, R., & Edwards, J. D. (2015). Cortical Auditory Evoked Responses in Mild Cognitive Impairment. Poster presented at the *Alzheimer's Association International Conference*, Washington, D.C.

*Asta, A., Lister, J. J., *Brandino, A. D., *Clifton, G. L., Eddins, A. C., **Harrison Bush, A. L.**, Andel, R., & Edwards, J. D. (2015). The Effects of Brain Fitness Auditory-Based Cognitive Training Program on ERP Component P3b in Older Adults.

2011 University of South Florida Polytechnic Search Committee: Psychology (Engineering Psychology)

2009 2013 University of South Florida Polytechnic Psychology Club Co-Advisor

2009 2010 University of South Florida Polytechnic Search Advisory Committee: Sociology

2009 2010 University of South Florida Polytechnic Search Advisory Committee: Criminology

2009 2010 University of South Florida Polytechnic Search Advisory Committee: Gerontology

2009 2010 University of South Florida Polytechnic Search Advisory Committee: Nutrition

2008 2010 University of South Florida Polytechnic Rath Senior ConNEXTions and Education Center Supervisor of Student Volunteers

2009 2010 University of South Florida Polytechnic Rath Senior ConNEXTions and Education Center Senior Scholars *Maintain Your Brain* Course Instructor

2010 University of South Florida Polytechnic Rath Center Brain Fitness Laboratory Supervisor

2001 2002 Cognitive Aging Planning Committee, The University of Akron, Akron, OH

- 2008 *Facilitator*
Florida Polytechnic, Lakeland, FL
- 2007 *Program Developer*
: Pilot Program
- 2007 *Program Developer*
Chapter and the Arts Ensemble Healing Arts Center: Transcending Limitations through

2014

- 2007 Polk County Case Workers Association Seminar, Lakeland, FL. *Alzheimer's Disease and Related Dementias.*
- 2007 Polk County Family Caregivers Caregiver Summit, Lakeland, FL. *Caregiver Stress and Depression.*

General

2013

2010		National Institute of Health State-of-the-Science Conference, <i>Preventing Alzheimer's Disease and Cognitive Decline</i>		
2010		National Coalition Building Institute (NCBI), University of South Florida Polytechnic Diversity Office		
2009		University of South Florida Polytechnic Teaching & Learning Innovation 2009 Summer Workshop Series		
2009		7 th Annual Mild Cognitive Impairment Symposium, Miami, FL		
2008	2010	Qualified Dementia Care Provider		
2007	2010		1	Facilitator

MEDIA

Articles/Coverage

Crate, P. (2009, March 22). Help for caregivers. *News Chief*, p. 2A.

PROGRAM OF RESEARCH

Innovative, non-pharmacological interventions in the prevention and/or onset delay of cognitive impairment and dementia.

Relationship between auditory processing and cognitive impairment

Computer-based screening tools to aid in the detection of cognitive impairment and decline.

The effects of disrupted sleep on cognition and health.