

# Curriculum Vitae

## Walter R. Boot

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### General Information

University address: Cognitive Psychology  
Department of Psychology  
College of Arts & Sciences  
1107 W Call St.  
Florida State University  
Tallahassee, Florida 32306-4301  
Phone: 850-645-8734; Fax: 850-644-7739

E-mail address: boot@psy.fsu.edu

Web site: <https://www.walterboot.net/>

### Professional Preparation

2007 Ph.D., University of Illinois at Urbana-Champaign, Urbana, Illinois. Major: Psychology. Visual Cognition and Human Performance. Supervisor: Arthur F. Kramer.

Boot, Walter R. (2007). *The effects of video game playing on perceptual and cognitive abilities*. Unpublished doctoral dissertation, University of Illinois at Urbana-Champaign, Urbana, Illinois.

2003 M.A., University of Illinois at Urbana-Champaign, Urbana, Illinois. Major: Psychology. Visual Cognition and Human Performance. Supervisor: Arthur F. Kramer.

Boot, Walter R. (2003). *Automatic and intentional memory processes in visual search*. Unpublished master's thesis, University of Illinois at Urbana-Champaign, Urbana, Illinois.

2001 B.S., Stony Brook University. Major: Psychology. Cum Laude.

### Nondegree Education and Training

2006–2008 Post-doctoral training at the University of Illinois at Urbana-Champaign with Dr. Arthur F. Kramer.

## **Professional Experience**

- 2019–present      Professor, Florida State University.
- 2014–2019        Associate Professor, Psychology, Florida State University.
- 2008–2014        Assistant Professor, Psychology, Florida State University.

## **Honors, Awards, and Prizes**

- Best Interdisciplinary Research Award, Aging and Health Informatics Conference (AHIC) (2021).
- Richard Kalish Innovative Publication Book Award, Gerontological Society of America (2019).
- University Teaching Award Nominee (Undergraduate), Florida State University (2019).
- University Teaching Award Nominee (Graduate), Florida State University (2018).
- Earl Alluisi Award for Early Career Achievement, Division 21 (Applied Experimental and Engineering Psychology), American Psychological Association (2017).
- APA Prize for Interdisciplinary Team Research, American Psychological Association (2016).
- Best Paper Award, International Conference on Human Aspects of IT for the Aged Population (2016).
- Developing Scholar Award, Florida State University (2016).
- University Teaching Award Nominee (Undergraduate), Florida State University (2015).
- Springer Early Career Achievement Award in Research on Adult Development and Aging, Division 20 (Adult Development and Aging), American Psychological Association (2014).
- Jack A. Kraft Innovator Award, Human Factors and Ergonomics Society (2013).
- Honors Thesis Mentor Award, Florida State University (2012).
- Honors Thesis Mentor Award Nominee, Florida State University (2011).
- William G. Chase Symposium Travel Fellowship, Carnegie Mellon University (2009).
- First Year Assistant Professor Award, Council on Research and Creativity, Florida State University (2009).
- The Royal Society of Edinburgh Travel Award, The Royal Society of Edinburgh (2007).
- University Fellowship, University of Illinois at Urbana-Champaign (2004).

## **Elected Fellow Status**

- Elected as a Fellow of Gerontological Society of America (2017).
- Elected as a Fellow of American Psychological Association (2016).

## **Current Membership in Professional Organizations**

American Psychological Association  
Gerontological Society of America

## **Research and Original Creative Work**

### **Publications**

#### **Invited Journal Articles**

Boot, W. R., & Kramer, A. F. (2014). The brain-games conundrum: Does cognitive training really sharpen the mind? *Cerebrum*, 1-15.

#### **Refereed Journal Articles**

Carr, D. C., Tian, S., He, Z., Chakraborty, S., Dieciuc, M., Gray, N., Agharazidermani, M., Lustria, M. L. A., Dilanchian, A., Zhang, S., Charness, N., Terracciano, A., & Boot, W. R. (in press). Motivation to engage in aging research: Are there typologies and predictors? *The Gerontologist*, 1-39 pages.

Charness, N., & Boot, W. R. (in press). A grand challenge for psychology: Reducing the age-related digital divide. *Current Directions in Psychological Science*.

Yancey, J. R., Bowyer, C. B., Roberts, K. E., Jones, D., Joyner, K. J., Foell, F., McGlade, E. C., Yurgelun-Todd, D. A., Boot, W. R., & Patrick, C. J. (in press). Boldness moderates cognitive performance under acute threat: Evidence from a task-switching paradigm involving cueing for shock. *Journal of Experimental Psychology: Human Perception and Performance*.

Boot, W. R. (in press). Designing, evaluating, and disseminating novel technology solutions to support older adults with cognitive impairments. *The Gerontologist*.

Zhang, S., Boot, W. R., & Charness, N. (in press). Does computer use improve older adults' cognitive functioning? Evidence from the Personal Reminder Information & Social Management (PRISM) trial. *The Gerontologist*.

Gray, N., Jong-Sung, Y., Charness, N., Boot, W. R., Roque, N. A., Andringa, A., Harrell, E., Lewis, K. G., & Vitale, T. (in press). Relative effectiveness of general versus specific cognitive training for aging adults. *Psychology and Aging*.

- Roque, N. A., & Boot, W. R. (2021). A new tool for assessing older adults' wireless network proficiency: The Wireless Network Proficiency Questionnaire. *Journal of Applied Gerontology, 40*(5), 541-546.
- Dilanchian, A. T., Andringa, R., & Boot, W. R. (2021). A pilot study exploring age differences in presence, workload, and cybersickness in the experience of immersive virtual reality environments. *Frontiers in Virtual Reality, 7*.
- Lintern, G., & Boot, W. R. (2021). Cognitive training: Transfer beyond the laboratory? *Human Factors, 63*(3), 531-547.
- Onafraychuk, D., Sanders, E. C., Harrell, E. R., & Boot, W. R. (2021). Exploring individuals' willingness to engage in interventions to improve cognitive health and prolong late-life independence: An extension of Harrell, Kmetz, and Boot. *Journal of Cognitive Enhancement, 5*(2), 259-265.
- Harrell, E. R., Roque, N. A., Boot, W. R., & Charness, N. (2021). Investigating message framing to improve adherence to technology-based cognitive interventions. *Psychology and Aging, 36*(8), 974-982.
- Abioye, O. F., Dulebenets, M. A., Ozguven, E. E., Moses, R., Boot, W. R., & Sando, T. (2020). Assessing perceived driving difficulties under emergency evacuation for vulnerable population groups. *Socio-Economic Planning Sciences, 72*.
- Dulebenets, M. A., Pasha, J., Kavooosi, M., Abioye, O. F., Ozguven, E. E., Moses, R., Boot, W. R., & Sando, T. (2020). Multi-objective optimization model for emergency evacuation planning in geographical locations with vulnerable population groups. *Journal of Management in Engineering, 36*(2).
- Moret-Tatay, C., Marco, E. G., Boot, W. R., & Charness, N. (2019). A Spanish adaptation of the Computer and Mobile Device Proficiency Questionnaires (CPQ and MDPQ) for older adults. *Frontiers in Psychology, 10*, 1-9.
- Ulak, M. B., Ozguven, E. E., Moses, R., Sando, T., Boot, W. R., AbdelRazig, Y., & Sobanjo, J. O. (2019). Assessment of traffic performance measures and safety based on driver age and experience: A microsimulation based analysis for an unsignalized T-Intersection. *Journal of Traffic and Transportation Engineering, 6*, 455-469.
- Lee, C. C., Moxley, J. H., Czaja, S. J., Sharit, J., Boot, W. R., Charness, N., & Rogers, W. A. (2019). Attitudes towards computers across adulthood from 1994 to 2013. *The Gerontologist, 59*(1), 22-33.
- Yancey, J. R., Bowyer, C. B., Foell, J., Boot, W. R., & Patrick, C. J. (2019). Boldness moderates the effects of external threat on performance within a task-switching paradigm. *Journal of Experimental Psychology. Human Perception and Performance, 45*, 758-770.

- Yoon, J., Charness, N., Boot, W. R., Czaja, S. J., & Rogers, W. A. (2019). Depressive symptoms as a predictor of memory complaints in the PRISM sample. *Journal of Gerontology: Psychological Sciences, 74*, 254–263.
- Dulebenets, M. A., Abioye, O. F., Ozguven, E. E., Moses, R., Boot, W. R., & Sando, T. (2019). Development of statistical models for improving efficiency of emergency evacuation in areas with vulnerable population. *Reliability Engineering and System Safety, 182*, 233-249.
- Sharit, J., Mosley, J. H., Boot, W. R., Charness, N., Rogers, W. A., & Czaja, S. J. (2019). Effects of extended use of an age friendly computer system on assessments of computer proficiency, attitudes, and usability by older non-computer user. *Transactions on Accessible Computing, 12*, 1-28.
- Dulebenets, M., Pasha, J., Abioye, O., Kavooosi, M., Ozguven, E. E., Moses, R., Boot, W. R., & Sando, T. (2019). Exact and heuristic solution algorithms for efficient emergency evacuation in areas with vulnerable populations. *International Journal of Disaster Risk Reduction, 39*, 1-31.
- Petrovcic, A., Boot, W. R., Burnik, T., & Dolnicar, V. (2019). Improving the measurement of older adults' mobile device proficiency: Results and implications from a study of older adult smartphone users. *IEEE Access, 150412-150422*.
- Yoon, J. S., Roque, N. A., Andringa, R., Harrell, E. R., Lewis, K. G., Vitale, T., Charness, N., & Boot, W. R. (2019). Intervention Comparative Effectiveness for Adult Cognitive Training (ICE-ACT) Trial: Rationale, design, and baseline characteristics. *Contemporary Clinical Trials, 78*, 76-87.
- Harrell, E. R., Kmetz, B., & Boot, W. R. (2019). Is cognitive training worth it? Exploring individuals' willingness to engage in cognitive training. *Journal of Cognitive Enhancement, 1-11*.
- Yoon, J-S., Harper, J., Boot, W. R., Gong, Y., & Bernat, E. M. (2019). Neural evidence of superior memory: How to capture brain activities of encoding processes underlying superior memory. *Frontiers in Human Neuroscience, 13*, 1-13.
- Boot, W. R., Andringa, R., Harrell, E. R., Dieciuc, M. A., & Roque, N. A. (2019). Older adults and video gaming for leisure: Lessons from the Center for Research and Education on Aging and Technology Enhancement (CREATE). *Gerontechnology, 12*(2), 138-146.
- Hilgard, J., Sala, G., Boot, W. R., & Simons, D. J. (2019). Overestimation of action-game training effects: Publication bias and salami slicing. *Collabra: Psychology, 5*, 1-10.

- Mitzner, T. L., Salva, J., Boot, W. R., Sharit, J., Charness, N., Czaja, S. J., & Rogers, W. A. (2019). Technology adoption by older adults: Findings from the PRISM trial. *The Gerontologist*, *59*(1), 34-44.
- Dieciuc, M. A., Roque, N. A., & Boot, W. R. (2019). The spatial dynamics of mouse-tracking reveal that attention capture is stimulus-driven rather than contingent upon top-down goals. *Journal of Experimental Psychology. Human Perception and Performance*, *45*. doi:1285–1290
- Dieciuc, M. A., Maranges, H., & Boot, W. R. (2019). Trait self-control does not predict attentional control: Evidence from a novel attention capture paradigm. *PLOS ONE*, *14*(2), e0224882.
- Stothart, C., Simons, D. J., Boot, W. R., & Wright, T. J. (2019). What to where: The right attention set for the wrong location. *Perception*, *48*, 1-14.
- Roque, N. A., & Boot, W. R. (2018). A new tool for assessing mobile device proficiency in older adults: The Mobile Device Proficiency Questionnaire. *Journal of Applied Gerontology*, *37*, 131-156.
- Wright, T. J., Roque, N. A., Boot, W. R., & Stothart, C. (2018). Attention capture, processing speed, and inattentive blindness. *Acta Psychologica*, *190*, 72-77.
- Boot, W. R., Moxley, J. H., Roque, N. A., Andringa, R., Charness, N., Czaja, S. J., Sharit, J., Rogers, W. A., Mitzner, T., & Lee, C. C. (2018). Exploring video gaming habits of older adults in the PRISM randomized controlled trial. *Innovation in Aging*, *2*(1), 1-13.
- Andringa, R., Boot, W. R., Roque, N. A., & Ponnaluri, S. (2018). Hand proximity effects are fragile: a useful null result. *Cognitive Research: Principles and Implications*, *3*, 1-12.
- Czaja, S. J., Boot, W. R., Charness, N., Rogers, W. A., & Sharit, J. (2018). Improving social support for older adults through technology: Findings from the PRISM randomized controlled trial. *The Gerontologist*, *58*(3), 467–477.
- Harwell, K. W., Boot, W. R., & Ericsson, K. A. (2018). Looking behind the score: Skill structure explains sex differences in skilled video game performance. *PLOS One*, *13*(5), 1-18.
- Multilab Direct Replication Team, including Boot, W. R., Andringa, R., Roque, N. A., & Harrell, E. R. (2018). Registered replication report: Dijksterhuis & van Knippenberg (1998). *Perspectives on Psychological Science*, *13*(2), 268–294.
- Rabipour, S., Andringa, R., Boot, W. R., & Davidson, R. S. R. (2018). What do people expect of cognitive enhancement? *Journal of Cognitive Enhancement*, 1-8.

- Souders, D. J., Boot, W. R., Blocker, K., Vitale, T., Roque, N. A., & Charness, N. (2017). Evidence for narrow transfer after short-term cognitive training in older adults. *Frontiers in Aging Neuroscience, 9*, 1-10.
- Stothart, C. R., Wright, T. J., Simons, D. J., & Boot, W. R. (2017). The costs (or benefits) associated with attended objects do little to influence inattention blindness. *Acta Psychologica, 173*, 101–105.
- Boot, W. R., Sumner, A., Towne, T., Rodriguez, P., & Ericsson, K. A. (2016). Applying aspects of the expert performance approach to better understand the structure of skill and mechanisms of skill acquisition in video games. *Topics in Cognitive Science, 9*, 413–436.
- Simons, D. J., Boot, W. R., Charness, N., Gathercole, S. E., Chabris, C. F., Hambrick, D. Z., & Stine-Morrow, E. A. L. (2016). Do "brain-training" programs work? *Psychological Science in the Public Interest, 17*, 103-186.
- Roque, N. A., Wright, T. J., & Boot, W. R. (2016). Do different attention capture paradigms measure different types of capture? *Attention, Perception, & Psychophysics, 78*, 2014-2030.
- Souders, D. J., Boot, W. R., Charness, N., & Moxley, J. (2016). Older adult video game preferences in practice: Investigating the effects of competing or cooperating. *Games and Culture, 11*, 170-200.
- Evans, J., Papadopoulos, A., Silvers, C. T., Charness, N., Boot, W. R., Schlachta-Fairchild, L., Crump, C., Martinez, M., & Ent, C. (2016). Remote health monitoring for older adults and those with heart failure: Adherence and system usability. *Telemedicine and e-Health, 22*, 480-488.
- Towne, T. J., Boot, W. R., & Ericsson, K. A. (2016). Understanding the structure of skill through a detailed analysis of individuals' performance on the Space Fortress game. *Acta Psychologica, 169*, 27–37.
- van Houwelingen, C. T. M., Barakat, A., Boot, W. R., Charness, N., Best, R., & Kort, H. S. M. (2015). Dutch nurses' willingness to use home telehealth: Implications for practice and education. *Journal of Gerontological Nursing, 41*, 47-56.
- Wright, T. J., Boot, W. R., & Jones, J. L. (2015). Exploring the breadth of the top-down representations that control attentional disengagement. *The Quarterly Journal of Experimental Psychology, 68*, 993-1006.
- Roque, N., & Boot, W. R. (2015). Exploring the relationship between object realism and object-based attention effects. *Acta Psychologica, 160*, 178–183.

- Wright, T. J., Boot, W. R., & Brockmole, J. R. (2015). Functional fixedness: The functional significance of delayed disengagement based on attention set. *Journal of Experimental Psychology: Human Perception and Performance*, *41*, 17-21.
- Boot, W. R., Charness, N., Czaja, S. J., Sharit, J., Rogers, W. A., Fisk, A. D., Mitzner, T., Lee, C., & Nair, S. (2015). The computer proficiency questionnaire (CPQ): Assessing low and high computer proficient seniors. *The Gerontologist*, *55*, 404-411.
- Wright, T. J., Vitale, T., Boot, W. R., & Charness, N. (2015). The impact of red light running camera flashes on younger and older drivers' attention and oculomotor control. *Psychology and Aging*, *30*, 755-767.
- Czaja, S. J., Boot, W. R., Charness, N., Rogers, W., Sharit, J., Fisk, A. D., Lee, C., & Nair, S. N. (2015). The Personalized Reminder Information and Social Management (PRISM) System Trial: Challenges and lessons learned. *Contemporary Clinical Trials*, *40*, 35-46.
- Lee, H., Boot, W. R., Baniqued, P. L., Voss, M. W., Prakash, R. S., Basak, C., & Kramer, A. F. (2015). The relationship between intelligence and training gains is moderated by training strategy. *PLoS ONE*, *10*(4), 1-9.
- Stothart, C. R., Boot, W. R., & Simons, D. J. (2015). Using Mechanical Turk to assess the effects of age and spatial proximity on inattention blindness. *Collabra*, *1*, 1-7.
- Boot, W. R. (2015). Video games as tools to achieve insight into cognitive processes. *Frontiers in Psychology*, *6*(3), 1-3.
- Sall, R. J., Wright, T. J., & Boot, W. R. (2014). Driven to distraction? The effect of simulated red light running camera flashes on attention and oculomotor control. *Visual Cognition*, *22*, 57-73.
- Blocker, K. A., Wright, T. J., & Boot, W. R. (2014). Gaming preferences of aging generations. *Gerontechnology*, *12*, 174-184.
- Boot, W. R., Sothart, C., & Charness, N. (2014). Improving the safety of aging road users - A mini-review. *Gerontology*, *60*, 90-96.
- Stothart, C. R., Simons, D. J., Boot, W. R., & Kramer, A. F. (2014). Is the effect of aerobic exercise on cognition a placebo effect? *PLoS One*, *9*(10), 1-7.
- Mitzner, T. L., Rogers, W. A., Fisk, A. D., Boot, W. R., Charness, N., Czaja, S. J., & Sharit, J. (2014). Predicting older adults' perceptions about a computer system designed for seniors. *Universal Access*, 1-10.



- Fu, W., Lee, H., Boot, W. R., & Kramer, A. F. (2013). Bridging across cognitive training and brain plasticity: A neurally inspired computational model of interactive skill learning. *WIREs Cognitive Science*, 4, 225–236.
- Wright, T. J., Boot, W. R., & Morgan, C. S. (2013). Pupillary response predicts multiple object tracking load, error rate, and conscientiousness, but not inattention blindness. *Acta Psychologica*, 144, 6-11.
- Boot, W. R., Simons, D. J., Stothart, C., & Stutts, C. (2013). The pervasive problem with placebos in psychology: Why active control groups are not sufficient to rule out placebo effects. *Perspectives on Psychological Science*, 8, 445-454.
- Boot, W. R., Champion, M., Blakely, D. P., Wright, T., Souders, D. J., & Charness, N. (2013). Video games as a means to reduce age-related cognitive decline: Attitudes, compliance, and effectiveness. *Frontiers in Psychology*, 4, 1-9.
- Bredemeier, K., Howard, B., Brockmole, J. R., Boot, W. R., Simons, D. J., & Most, S. B. (2012). A load on my mind: Evidence that depression is like multi-tasking. *Acta Psychologica*, 139(1), 146–158.
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- Mathewson, K. E., Basak, C., Maclin, E. L., Low, K. A., Boot, W. R., Kramer, A. F., Fabiani, M., & Gratton, G. (2012). Different slopes for different folks: Alpha and delta EEG power predict subsequent video game learning rate and improvements in cognitive control tasks. *Psychophysiology*, 49, 1558-1570.
- Prakasha, R. S., DeLeon, A., Mourany, L., Lee, H., Voss, M. W., Boot, W. R., Basak, C., Fabiani, M., Gratton, G., & Kramer, A. (2012). Examining neural correlates of skill acquisition in a complex videogame training program. *Frontiers in Human Neuroscience*, 6, 1-11.
- Wheatley, D. M., Scialfa, C. T., Boot, W. R., Kramer, A. F., & Alexander, A. (2012). Minimal age-related deficits in task-switching, inhibition, and oculomotor control. *Experimental Aging Research*, 38(1), 110-29.

- Lee, H., Boot, W. R., Basak, C., Erickson, K. I., Neider, M., Simons, D. J., Fabiani, M., Gratton, G., Voss, M. W., Prakash, R. S., Low, K. A., & Kramer, A. F. (2012). Performance gains from directed training do not transfer to untrained tasks. *Acta Psychologica*, *139*(1), 146-58.
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- Boot, W. R., & Brockmole, J. R. (2010). Irrelevant features at fixation modulate saccadic latency and direction in visual search. *Visual Cognition*, *18*(4), 481 - 491.
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- Peterson, M. S., Boot, W. R., Kramer, A. F., & McCarley, J. S. (2004). Landmarks help guide attention during visual search. *Spatial Vision, 17*, 497-510.
- McCarley, J. S., Kramer, A. F., Wickens, C. D., Vidoni, E. D., & Boot, W. R. (2004). Visual skills in airport security screening. *Psychological Science, 15*, 302-306.

### **Invited Book Chapters**

- Charness, N., Boot, W. R., & Gray, N. (2020). Mobile Monitoring and Intervention (MMI) Technology for Adaptive Aging. In National Academies of Sciences, Engineering, and Medicine (Ed.), *Mobile Technology for Adaptive Aging* (pp. 21-40). Washington, DC.
- Boot, W. R., & Scialfa, C. T. (2017). The aging road user and technology to promote safe mobility for life. In Sunkyo Kwon (Ed.), *Gerontechnology: Research, Practice, and Principles in the Field of Technology and Aging* (pp. 207-222). Springer Publishing Company.
- Andringa, R., & Boot, W. R. (2017). Video games as tools for perceptual and cognitive enhancement? A critical review of the evidence to date. In Lorenza S. Colzato (Ed.), *Theory-Driven Approaches to Cognitive Enhancement* (pp. 199-211). New York, NY: Springer.

- Charness, N., & Boot, W. R. (2016). Technology, gaming, and social networking. In K. Warner Schaie, & Serry L. Willis (Eds.), *Handbook of the Psychology of Aging, Eighth Edition* (pp. 390-407). San Diego, CA: Academic Press.
- Charness, N., Boot, W. R., & Czaja, S. J. (2015). Technology and older workers. In Nancy A. Pachana (Ed.), *Encyclopedia of Geropsychology* (pp. 1-8). Singapore: Springer-Verlag.
- Ericsson, K. A., Yoon, J. S., & Boot, W. R. (2014). What we know about how experts attain their superior performance: Implications for the use of video games and game training in schools. In F. C. Blumberg (Ed.), *Learning by Playing: Frontiers of Video Gaming in Education* (pp. 87-103). Oxford, UK: Oxford University Press.
- Boot, W. R., & Ericsson, K. A. (2013). Expertise. In J. D. Lee, & A. Kirlik (Eds.), *Oxford Handbook of Cognitive Engineering* (pp. 143-158). New York, NY: Oxford University Press.
- Boot, W. R., Nichols, T. A., Rogers, W. A., & Fisk, A. D. (2012). Designing for aging. In G. Salvendy (Ed.), *Handbook of Human Factors and Ergonomics* (pp. 1142-1171). Hoboken, New Jersey: John Wiley & Sons, Inc.
- Boot, W. R., & Blakely, D. (2011). Mental and physical exercise as a means to reverse cognitive aging and enhance well-being. In P. E. Hartman-Stein (Ed.), *Enhancing Cognitive Fitness: A Guide to the use and development of community programs* (pp. 25-44). New York, NY: Springer.
- Wright, T., Blakely, D. P., & Boot, W. R. (2011). The effects of action video game play on vision and attention. In Gackenbach, J. (Ed.), *Video Game Play and Consciousness* (pp. 1-18). Hauppauge, New York: Nova Science Publisher.
- Boot, W. R., Kramer, A. F., & Becic, E. (2007). Capturing attention in the laboratory and the real world. In A. F. Kramer, D. A. Wiegmann, & A. Kirlik (Eds.), *Attention: From Theory to Practice* (pp. 27-44). New York, NY: Oxford University Press.
- Kramer, A. F., Peterson, M. S., McCarley, J. S., & Boot, W. R. (2005). The role of memory in visual search: A brief review of developing literature. In D. K. McBride, & D. Schmorrow (Eds.), *Quantification of Human Information Processing* (pp. 43-62). Oxford, UK: Rowman & Littlefield Publishers.

### **Nonrefereed Books**

- Boot, W. R., Charness, N., Czaja, S. J., & Rogers, W. A. (2020). *Designing for Older Adults: Case Studies, Methods, and Tools*. Boca Raton, FL: CRC Press.

Czaja, S. J., Boot, W. R., Charness, N., & Rogers, W. A. (2019). *Designing for Older Adults: Principles and Creative Human Factors Approaches, Third Edition*. Boca Raton, FL: CRC Press.

### **Nonrefereed Proceedings**

Andringa, R., Harrell, E. R., Dieciuc, M., & Boot, W. R. (2019). Older adults' perceptions of video game training in the Intervention Comparative Effectiveness for Adult Cognitive Training (ICE-ACT) clinical trial: An exploratory analysis. In *International Conference on Human-Computer Interaction* (pp. 125-134). Springer, Cham.

Champagne, K., & Boot, W. R. (2017). Exploring predictors of mobile device proficiency among older adults. In *International Conference on Human-Computer Interaction* (pp. 162-171). Springer.

Stothart, C., Boot, W. R., Simons, D., Charness, N., & Wright, T. (2016). Age effects on inattentive blindness: Implications for driving. In *Human Aspects of IT for the Aged Population. Healthy and Active Aging* (pp. 441-448). Springer International Publishing.

Boot, W. R., Barajas, K., Mitchum, A., Stothart, C., & Charness, N. (2016). Ensuring the safety and accessibility of transportation for an aging population. In *Human Aspects of IT for the Aged Population. Healthy and Active Aging* (pp. 386-394). Springer International Publishing.

Boot, W. R., Sharit, J., Czaja, S. J., Charness, N., & Rogers, W. (2016). Exploring the relationship between computer proficiency and computer use over time in the PRISM trial. In *Human Aspects of IT for the Aged Population. Healthy and Active Aging* (pp. 300-307). Springer International Publishing.

Roque, N. A., Boot, W. R., Charness, N., Barajas, K., Dirghalli, J., & Mitchum, A. (2016). The Flashing Right Turn Signal with Pedestrian Indication: A human factors study to assess driver comprehension. In *Human Aspects of IT for the Aged Population. Healthy and Active Aging* (pp. 417-427). Springer International Publisher.

Boot, W. R., Souders, D., Charness, N., Blocker, K., Roque, N., & Vitale, T. (2016). The gamification of cognitive training: Older adults' perceptions of and attitudes toward digital game-based interventions. In *Human Aspects of IT for the Aged Population. Design for Aging* (pp. 290-300). Springer International Publishing.

### **Nonrefereed Reports**

Charness, N., Boot, W. R., Kaschak, M., Arpan, L., Cortese, J., Clayton, R., Roque, N., Paedae, B., & Barajas, K. (2017). *Human Factors Guidelines to Develop Educational Tip Cards for Aging Road Users* (Technical Report BDV30-977-10). Florida Department of

Transportation. Retrieved from

[http://www.fdot.gov/research/completed\\_proj/summary\\_TE/FDOT-BDV30-977-15-rpt.pdf](http://www.fdot.gov/research/completed_proj/summary_TE/FDOT-BDV30-977-15-rpt.pdf)

- Boot, W. R., Charness, N., Mitchum, A., Roque, N., Stothart, C., & Barajas, K. (2015). *Final Report: Driving Simulator Studies of the Effectiveness of Countermeasures to Prevent Wrong-Way Crashes* (Technical Report BDV30 -977- 10). Florida Department of Transportation.
- Boot, W. R., Charness, N., Roque, N., Barajas, K., Dirghalli, J., & Mitchum, A. (2015). *Final Report: The Flashing Right Turn Signal with Pedestrian Indication: Human Factors Studies to Understand the Potential of a New Signal to Increase Awareness of and Attention to Crossing Pedestrian* (Technical Report BDV30 - 977 - 13). Florida Department of Transportation.
- Boot, W. R., Charness, N., Mitchum, A., Landbeck, R., & Stothart, C. (2014). *Final Report: Aging Road User Studies of Intersection Safety* (Technical Report BDV30 TWO 977-04). Florida Department of Transportation.
- Boot, W. R., Charness, N., Fox, M., Mitchum, A., Lupton, H., & Rebekah, L. (2013). *Final Report: Aging Road User, Bicyclist, and Pedestrian Safety: Effective Bicycling Signs and Preventing Left-Turn Crashes* (Technical Report BDK83 977-15). Florida Department of Transportation.
- Charness, N., Boot, W. R., Mitchum, A., Stothart, C., & Lupton, H. (2012). *Final Report: Aging Driver And Pedestrian Safety: Parking Lot Hazards Study* (Technical Report BDK83 977-12). Florida Department of Transportation.

## **Presentations**

### **Invited Papers at Symposia**

- Boot, W. R., McCarley, J. S., Peterson, M. S., & Kramer, A. F. (presented 2008). Memory mechanisms make search efficient during static and dynamic search. In Dr. Raymond Klein (Chair), *Inhibitory tags that guide orienting*. Symposium conducted at the meeting of XXIX International Congress of Psychology, Berlin, Germany. (International)

### **Invited Keynote and Plenary Presentations at Symposia**

- Boot, W. R. (presented 2014, April). Promoting accessibility and safety for an aging population through technology. Plenary presentation in Wendy A. Rogers (Chair), *Transportation and Cognitive Aging*. Symposium conducted at the meeting of Cognitive Aging Conference, Atlanta, GA. (International)

### **Invited Presentations at Conferences**

Boot, W. R. (presented 2015, February). *Computer Features that Socially Isolated Older Adults Find Useful: A Detailed Examination of Use Data from the PRISM Field Trial*. Presentation at The 2015 FSU Life Sciences Symposium, Department of Biomedical Sciences, College of Medicine, Florida State University. (Local)

Boot, W. R. (presented 2012, January). *Improving the cognition of older adults: Video games as a tool to reverse age-related decline?* Presentation at The 2012 FSU Life Sciences Symposium: Found in Translation!, Department of Biomedical Sciences, College of Medicine, Florida State University. (Local)

### **Refereed Presentations at Conferences**

Charness, N., Boot, W., Carr, D. C., Chakraborty, S., He, Z., Lustria, M. L., & Terracciano, A. (presented 2021, November). *Aims of the Adherence Promotion With Person-Centered Technology (APPT) Project*. Paper presented at Gerontological Society of America Annual Conference, Gerontological Society of America, Online. (International)

Carr, D. C., He, Z., Lustria, M. L., Tian, S., Agharazidermani, M., & Boot, W. (presented 2021, November). *Factors That Motivate Older Adults to Participate in Research: Typologies and Implications*. Paper presented at Gerontological Society of America Annual Conference, Gerontological Society of America, Online. (International)

Dieciuc, M., Zhang, S., Gray, N., Dilanchian, A., Carr, D. C., Lustria, M., & Boot, W. A. (presented 2021, November). *Qualitative Understanding of Motivations, Preferences, and Attitudes Toward Adherence-Based Technology*. Paper presented at Gerontological Society of America Annual Conference, Gerontological Society of America, Online. (International)

Boot, W., Charness, N., Chakraborty, S., Carr, D. C., Dieciuc, M., & Zhang, S. (presented 2021, November). *The Development of a Smart Reminder System to Promote Adherence to Technology-Based Intervention and Assessment*. Paper presented at Gerontological Society of America Annual Conference, Gerontological Society of America, Online. (International)

Boot, W. R. (presented 2020, November). *Aging in an Increasingly Technology-Based Society: Past, Present, and Future*. Presentation at GSA 2020 Annual Scientific Meeting, Gerontological Society of America, Virtual Conference. (International)



- Dieciuc, M. A., Carr, D., He, Z., Chakraborty, S., Charness, N., Lustria, M., Singh, A., & Boot, W. R. (presented 2020, November). *An Introduction to the Adherence Promotion With Person-Centered Technology Project*. Presentation at GSA 2020 Annual Scientific Meeting, Gerontological Society of America, Virtual Conference. (International)
- Boot, W. R. (presented 2020, November). *Gaming Technology to Support Leisure Activities Among Older Adults*. Presentation at GSA 2020 Annual Scientific Meeting, Gerontological Society of America, Virtual Conference. (International)
- Boot, W. R., Czaja, S. J., Rogers, W. A., & Charness, N. (presented 2020, November). *Introducing the ENHANCE (Enhancing Neurocognitive Health, Abilities, Networks, & Community Engagement) Center*. Presentation at GSA 2020 Annual Scientific Meeting, Gerontological Society of America, Virtual Conference. (International)
- Boot, W. R., Roque, N. A., Harrell, E. R., & Charness, N. (presented 2020, November). *Older Adults' Adherence to Technology-Based Intervention: The Role of Messaging and Individual Differences*. Presentation at GSA 2020 Annual Scientific Meeting, Gerontological Society of America, Virtual Conference. (International)
- Boot, W. R. (presented 2020, October). *Technology to support leisure activities*. Presentation at ISG's 12 World Conference of Gerontechnology, International Society for Gerontechnology, Virtual Conference. (International)
- Boot, W. R. (presented 2020, October). *Trends and benefits of information and communications technology use for older adults in the United States*. Presentation at ISG's 12 World Conference of Gerontechnology, International Society for Gerontechnology, Virtual Conference. (International)
- Boot, W. R., & Czaja, S. J. (presented 2020, September). *Introducing ENHANCE (Enhancing Neurocognitive Health, Abilities, Networks, & Community Engagement), a new Rehabilitation Engineering Research Center*. Presentation at RESNA 2020, Rehabilitation Engineering and Assistive Technology Society of North America, Virtual Conference. (International)
- Boot, W. R. (presented 2020, August). *Presidential Programming—Age, Generations, and Aging: An applied Psychology Perspective*. Presentation at 2020 Annual Meeting of APA, American Psychological Association, Virtual Conference. (International)
- Boot, W. R. (presented 2020, August). *So You Got Tenure: Now What? On the Transition From Early to Mid-Career Professional*. Presentation at 2020 Annual Meeting of APA, American Psychological Association, Virtual Conference. (International)
- Boot, W. R. (presented 2020, August). *Technology to Support Social Interactions and Leisure Among Older Adult*. Presentation at 2020 Annual Meeting of APA, American Psychological Association, Virtual Conference. (International)

- Dieciuc, M., & Boot, W. R. (presented 2018). *Capturing the response dynamics of attention capture with mouse tracking*. Poster presentation at 18th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Andringa, R., Roque, N. A., & Boot, W. R. (presented 2018). *Exploring the effect of task complexity, presentation, and input device on the near-hands advantage*. Poster presentation at 18th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Boot, W. R. (presented 2018). *Insights into the measurement of mobile device proficiency across cultures*. Presentation at 11th Congress of the International Society for Gerontechnology, International Society for Gerontechnology, St. Petersburg, FL. (International)
- Kmetz, B. V., Harrell, E. R., & Boot, W. R. (presented 2018). *Is brain training worth it? Exploring predictors of individuals' willingness to engage in brain games*. Poster presentation at 11th Conference of the International Society for Gerontechnology, International Society for Gerontechnology, St. Petersburg, FL. (International)
- Boot, W. R., Czaja, S. J., Charness, N., & Rogers, W. A. (presented 2018). *Leisure activity and the PRISM System*. Presentation at Technology, Mind, & Society Conference, American Psychological Association, Washington, D. C. (International) Retrieved from <https://pages.apa.org/tms/>
- Boot, W. R., Harrell, E. R., Andringa, R., Roque, N. A., Kmetz, B. V., Czaja, S. J., Sharit, J., Rogers, W. A., & Charness, N. (presented 2018). *Motivation and correlates of older adults' engagement in video and brain games*. Presentation at 11 Conference of the International Society for Gerontechnology, International Society for Gerontechnology, St. Petersburg, FL. (International)
- Roque, N. A., & Boot, W. R. (presented 2018). *Pupillometry as a window into the content and strength of attention sets*. Poster presentation at 18th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, Florida. (International)
- Harrell, E. R., & Boot, W. R. (presented 2018). *The influence of participant and intervention characteristics on adherence to technology-based cognitive interventions*. Poster presentation at 11th Conference of the International Society for Gerontechnology, International Society for Gerontechnology, St. Petersburg, FL. (International)
- Boot, W. R. (presented 2017). *Aging and technology use: Barriers to use, models of adoption, and the future of the digital divide*. Presentation at 2017 APA Annual Convention, American Psychological Association, Washington, DC. (International)
- Boot, W. R. (presented 2017). *Cross-Site CREATE Research*. Presentation at 2017 APA Annual Convention, American Psychological Association, Washington, DC. (International)

- Boot, W. R. (presented 2017). *Ensuring safe and accessible transportation for an aging population*. Presentation at 2017 Annual APA Convention, American Psychological Association, Washington, DC. (International)
- Boot, W. R., Roque, N. A., Charness, N., Rogers, W. A., Mitzner, T., Czaja, S. J., & Sharit, J. (presented 2017). *Older adult technology proficiency and technology adoption*. Presentation at 21st IAGG World Congress of Gerontology & Geriatrics, International Association of Gerontology and Geriatrics, San Francisco, CA. (International)
- Boot, W. R., Charness, N., Rogers, W. A., Czaja, S. J., & Sharit, J. (presented 2016). *Leisure and the PRISM system: What differentiates gamers from non-gamers in the PRISM sample?* Presentation at GSA Annual Scientific Meeting, Gerontological Society of America, New Orleans, LA. (International)
- Boot, W. R., Kueider, A. M., & Gross, A. L. (presented 2015). *Durability, adherence and longitudinal analyses: Challenges and proposed solutions for cognitive interventions*. Presentation at 2015 Meeting of the Gerontological Society of America, Gerontological Society of America, Orlando, FL. (International)
- Boot, W., Best, R., Charness, N., Kort, K., van Houwelingen, C., & Barakat, A. (presented 2015). *Exploring factors influencing U.S. nurses' willingness to use telehealth technology*. Presentation at 2015 Meeting of the Gerontological Society of America, Gerontological Society of America, Orlando, FL. (International)
- Roque, N., Wright, T., & Boot, W. R. (presented 2015). *Exploring visual search as a paradigm for predicting medication errors*. Poster presentation at 15th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Wright, T., Boot, W. R., Charness, N., & Vitale, T. (presented 2015). *The effects of red light running camera flashes on older and younger driver's covert and overt attention*. Presentation at 15th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Boot, W. R. (presented 2015). *Video games for an aging population: Promises and pitfalls*. Presentation at 2015 Meeting of the American Psychological Association, American Psychological Association, Toronto, Canada. (International)
- Stothart, C., Boot, W. R., Simons, D., & Beyko, A. (presented 2014). *Action video game experience does not predict multiple object tracking*. Presentation at 14th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Roque, N., & Boot, W. R. (presented 2014). *Exploring the relationship between object-based attention effects and object realism*. Presentation at 14th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)

- Wright, T., & Boot, W. R. (presented 2014). *Functional fixedness: The functional significance of delayed disengagement based on attention sets*. Poster presentation at 14th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Boot, W. R., Sall, R., & Wright, T. (presented 2014). *The effect of simulated red light running camera flashes on attention and oculomotor control*. Poster presentation at 14th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, St. Pete Beach, FL. (International)
- Boot, W. R., Charness, N., Souders, D., & Blocker, K. (presented 2014). *The potential of gaming technology to improve the cognition and independence of older adults*. Presentation at 2014 APA Annual Convention, American Psychological Association, Washington D.C. (International)
- Boot, W. R., Charness, N., Czaja, S., Sharit, J., Rogers, W., & Mitzner, T. (presented 2014). *The PRISM field trial: A detailed examination of PRISM feature use over time*. Presentation at Annual Meeting of the Gerontological Society of America, Gerontological Society of America, Washington D.C. (International)
- Wright, T., Boot, W. R., & Jones, J. (presented 2013). *Cues imprecise in modality and physical appearance influence attentional disengagement and saccade direction*. Poster presentation at The 13th Annual Meeting of the Vision Sciences Society, Vision Sciences Society. (International)
- Boot, W. R., Charness, N., Rogers, W. A., Fisk, D. A., Czaja, S., Sharit, J., & Nair, S. (presented 2013). *Factors influencing digital game acceptance and preference of seniors*. Presentation at 2013 APA Annual Convention, American Psychological Association, Hawaii. (International)
- Boot, W. R., & Simons, D. J. (presented 2013). *Improving the quality of evidence linking video game play to enhanced cognitive abilities*. Presentation at 2013 APA Annual Convention, American Psychological Association, Hawaii. (International)
- Boot, W. R., Charness, N., Rogers, W. A., Fisk, A. D., Czaja, S. J., Sharit, J., & Nair, S. (presented 2013). *Predictors of older adults' digital game acceptance and preference*. Presentation at GSA Annual Scientific Meeting, Gerontological Society of America, New Orleans, LA. (International)
- Boot, W. R. (presented 2012). *Improving the cognition of older adults: Video games as a tool to reverse age-related decline?* Presentation at 2012 Annual Convention of the American Psychological Association, American Psychological Association, Orlando, FL. (International)

- Boot, W. R., Charness, C., Mitzner, T., Rogers, W., Fisk, F., Czaja, S., & Sharit, J. (presented 2012). *The PRISM field trial: Development of new measures*. Presentation at 65 Meeting of the GSA, Gerontological Association of America. (International)
- Boot, W. R., Champion, M., Blakely, D. P., Wright, T., Souders, D. J., & Charness, N. (presented 2012). *Video game interventions to address cognitive aging*. Presentation at ISG\*ISARC2012, International Society for Gerontechnology, Eindhoven, NL. (International)
- Boot, W. R. (presented 2011, June). *Improving the cognition of older adults: Video games as a tool to reverse age-related decline?* Presentation at Designing for Older Adults: Preparing the PRISM Field Trial, Festival of International Conferences on Caregiving, Disability, Aging and Technology, Toronto, Canada. (International)
- Wright, T., Blakely, D. P., Jone, J. L., Boot, W. R., & Brockmole, J. R. (presented 2011). *Linguistic and feature cues interact to determine saccadic latency and direction in visual search*. Poster presentation at The 11th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Naples, FL. (International)
- Blakely, D. P., Wright, T., Boot, W. R., & Brockmole, J. R. (presented 2011). *On the precision of attention sets: Effects of distractor probability and temporal expectations on contingent capture*. Poster presentation at The 11th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Naples, FL. (International)
- Boot, W. R., Wright, T., Blakely, D. P., & Brockmole, J. R. (presented 2011). *The time course and nature of attentional disengagement effects*. Poster presentation at The 11th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Naples, FL. (International)
- Boot, W. R., Champion, M., Blakely, D. P., Wright, T., & Charness, N. (presented 2011). *Video game interventions as a means to address cognitive aging: Perceptions, attitudes and effectiveness*. Poster presentation at APA 119th Convention, American Psychological Association, Washington D.C. (International)
- Mouranya, L., Prakash, R. S., Lee, H., Voss, M. W., Erickson, K. I., Boot, W. R., Basak, C., Neider, M. B., Simons, D. J., Fabiani, M., Gratton, G., & Kramer, A. F. (presented 2011). *Video game training and cortical recruitment of the attentional and default-mode networks*. Presentation at 2011 Meeting of the Cognitive Neuroscience Society, Cognitive Neuroscience Society, San Francisco, California. (International)
- Boot, W. R., & Brockmole, J. R. (presented 2010). *Can't take my eyes off of you: Delayed attentional disengagement based on attention set*. Poster presentation at The 10th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Naples, FL. (International)

- Lo, V., Walther, D., Kramer, A. F., Erickson, K. I., Boot, W. R., Lee, H., Voss, M., Prakash, R., Fabiani, M., Gratton, G., & Wang, Y. M. (presented 2010). *Predicting training success for a video game: Effect of number of subjects on prediction power*. Poster presentation at 16th Annual Meeting of the Organization for Human Brain Mapping, Organization for Human Brain Mapping, Barcelona, Spain. (International)
- Blakely, D., & Boot, W. R. (presented 2010). *Training, transfer, and strategy in structured and unstructured camouflage search environments*. Poster presentation at The 10th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Naples, FL. (International)
- Voss, M. W., Prakash, R. S., Erickson, K. I., Boot, W. R., Basak, C., Neider, M., Fabiani, M., Gratton, G., & Kramer, A. F. (presented 2010). *Training-induced plasticity in large-scale brain networks from the acquisition of skilled space fortress performance*. Presentation at The 17th Annual Meeting of the Cognitive Neuroscience Society, Cognitive Neuroscience Society, Montreal, Canada. (International)
- Vo, L. T. K., Walther, D. B., Wang, Y. M., Erickson, K. I., Boot, W. R., Voss, M. W., Prakash, R. S., & Kramer, A. K. (presented 2009). *Predicting training success from pre-training brain activity*. Presentation at The 15th Meeting of the Organization for Human Brain Mapping, The Organization for Human Brain Mapping, San Francisco, CA. (International)
- Basak, C., Boot, W. R., Neider, M. B., Fabiani, M., Gratton, G., & Kramer, A. F. (presented 2009). *Prioritizing subcomponents of the Space Fortress game enhances learning and engenders transfer*. Presentation at The 50th Annual Meeting of the Psychonomic Society, Psychonomic Society, Boston, MA. (International)
- Basak, C., Boot, W. R., & Kramer, A. F. (presented 2008). *On the relationship between working memory and attentional disengagement*. Presentation at The 49th Annual Meeting of the Psychonomic Society, Psychonomic Society, Chicago, IL. (International)
- Boot, W. R., Neider, M. B., & Kramer, A. F. (presented 2008). *Training older adults to search for camouflaged targets*. Poster presentation at Cognitive Aging Conference, Georgia Institute of Technology, Atlanta, GA. (International)
- Low, K., Boot, W. R., Stanley, T., Mathewson, K. E., Kramer, A. F., Fabiani, M., & Gratton, G. (presented 2008). *Training on a complex task affects dual task event-related brain potentials*. Poster presentation at The 48th Meeting of the Society for Psychophysiological Research, Society for Psychophysiological Research, Austin, TX. (International)
- Boot, W. R., Neider, M. B., & Kramer, A. F. (presented 2007). *Training and transfer in search for camouflaged real-world targets*. Poster presentation at The 7th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)

- Becic, E., Kramer, A. F., & Boot, W. R. (presented 2006). *Age-related differences in change detection performance in dynamic displays*. Poster presentation at Cognitive Aging Conference, Georgia Institute of Technology, Atlanta, GA. (International)
- Basak, C., Boot, W. R., Webb, M., & Kramer, A. F. (presented 2006). *Can cognitive training attenuate the effects of aging?* Poster presentation at Cognitive Aging Conference, Georgia Institute of Technology, Atlanta, GA. (International)
- Basak, C., Boot, W. R., Webb, M., & Kramer, A. F. (presented 2006). *Exploring game-specific and age-specific effects of videogame training on cognitive abilities*. Poster presentation at The 47th Meeting of the Psychonomics Society, Psychonomics Society, Houston, TX. (International)
- Endo, N., Boot, W. R., Kramer, A. F., Lleras, A., & Kumada, T. (presented 2006). *Spatial context learning and switching strategy*. Presentation at The 47th Meeting of the Psychonomics Society, Psychonomics Society, Houston, TX. (International)
- Boot, W. R., Kramer, A. F., Fabiani, M., Gratton, G., Simons, D. J., Wan, X., Ambinder, M. S., Thomas, L. E., Colcombe, S. J., Agran, J., Low, K., & Lee, Y. (presented 2006). *The effects of video game playing on perceptual and cognitive abilities*. Poster presentation at The 6th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)
- Mestre, J., Feil, A., Boot, W. R., & Kramer, A. F. (presented 2006). *Tracking eye-movements in students' judgments of realistic motion*. Presentation at Summer Meeting of the American Association of Physics Teachers, American Association of Physics Teachers, Syracuse, NY. (National)
- Peterson, M. S., Beck, M. R., Boot, W. R., Vomela, M., & Kramer, A. F. (presented 2005). *Little is remembered about rejected distractors in visual search*. Poster presentation at The 5th Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)
- Boot, W. R., Becic, E., Kramer, A. F., McCarley, J. S., & Peterson, M. S. (presented 2004). *Aging and memory for distractors in visual search*. Presentation at The 45th Meeting of the Psychonomics Society, Psychonomics Society, Minneapolis, MN. (International)
- Boot, W. R., Kramer, A. F., McCarley, J. S., Peterson, M. S., & Scialfa, C. T. (presented 2004). *Older adults display a larger memory span than younger adults in visual search*. Poster presentation at Cognitive Aging Conference, Georgia Institute of Technology, Atlanta, GA. (International)
- Simons, D. J., Nevarez, G., & Boot, W. R. (presented 2004). *Visual sensing is seeing: Why hindsight, in hindsight, is blind*. Presentation at The 45th Meeting of the Psychonomics Society, Psychonomics Society, Minneapolis, MN. (International)

- Brockmole, J. R., Boot, W. R., & Simons, D. J. (presented 2003). *An auditory secondary task modulates attention capture in visual search*. Poster presentation at The 3rd Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)
- McCarley, J. S., Kramer, A. F., Boot, W. R., & Colcombe, A. M. (presented 2003). *Automatic and intentional memory processes in saccade target selection*. Poster presentation at The 3rd Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)
- Peterson, M. S., Boot, W. R., & Kramer, A. F. (presented 2003). *Environmental cues modulate memory during visual search*. Poster presentation at The 3rd Annual Meeting of the Vision Sciences Society, Vision Sciences Society, Sarasota, FL. (International)
- Boot, W. R., Kramer, A. F., McCarley, J. S., & Peterson, M. S. (presented 2003). *The spatial dynamics of memory representations formed during visual search*. Poster presentation at The 11th Annual Workshop on Object Perception Attention and Memory, OPAM, Vancouver, BC. (International)
- Brockmole, J. R., Boot, W. R., Simons, D. J., & Alexander, A. L. (presented 2003). *Time's up for contingent capture: Contingent capture explained by temporal confusion*. Poster presentation at The 11th Annual Workshop on Object Perception Attention and Memory, OPAM, Vancouver, BC. (International)
- Boot, W. R., Kramer, A. F., & Peterson, M. S. (presented 2002). *Oculomotor consequences of onsets and offsets*. Presentation at The 10th Annual Workshop on Object Perception Attention and Memory, OPAM, Kansas City, MO. (International)

### **Invited Workshops**

- Czaja, S. J., Boot, W. R., Charness, N., & Rogers, W. (2021, September). *Designing for Older Adults*. Workshop delivered at University of Bordeaux, Bordeaux, France. (International)  
Retrieved from  
<https://create-center.ahs.illinois.edu/sites/create-center.ahs.illinois.edu/files/CREATE%20Workshop%20-%20Bordeaux%202021.pdf>
- Czaja, S. J., Boot, W. R., Charness, N., & Rogers, W. (2018, December). *Designing for Older Adults*. Workshop delivered at Goethe Universität, Frankfurt, Germany. (International)  
Retrieved from  
<http://www.uni-frankfurt.de/73216389/Workshop-CREATE-Frankfurt-December-2018-Program.pdf>



## Contracts and Grants

### Contracts and Grants Funded

Boot, W. R., & Fowe, I. (Sep 2021–Sep 2023). *Diversity Administrative Supplement: The Adherence Promotion with Person-centered Technology (APPT) Project: Promoting Adherence to Enhance the Early Detection and Treatment of Cognitive Decline*. Funded by National Institutes of Health/National Institute on Aging. Total award \$208,919.

Boot, W. R., & Charness, N. (Sep 2019–Sep 2024). *The Center for Enhancing Neurocognitive Health, Abilities, Networks, & Community Engagement (ENHANCE) - FSU Site*. Funded by National Institute on Disability, Independent Living, and Rehabilitation Research. Total award \$1,357,840.

Boot, W. R., Chakraborty, S., Charness, N., He, Z., Carr, D., Lustria, M., & Terracciano, A. (Aug 2019–Mar 2024). *The Adherence Promotion with Person-centered Technology (APPT) Project: Promoting Adherence to Enhance the Early Detection and Treatment of Cognitive Decline*. Funded by National Institute on Aging. (089009-520-042736). Total award \$2,993,167.

Ozguven, E. E., & Boot, W. R. (Sep 2017–Aug 2021). *One Bridge at a Time: Bridging the Digital Divide for the Well-Being of Aging Populations through Smart and Connected Communities*. Funded by National Science Foundation. Total award \$116,090.

Boot, W. (May 2016–Jan 2017). *Comparing Countermeasures for Mitigating Wrong-way Entries onto Limited Access Facilities*. Funded by Florida Department of Transportation. Total award \$115,006.

Charness, N., Arpan, L., Boot, W. R., Kaschak, M., Cortese, J., & Clayton, R. (Nov 2015–Apr 2017). *Human Factors Guidelines to Develop Educational Tip Cards for Aging Road Users*. Funded by Florida Department of Transportation. Total award \$215,000.

Boot, W. R., & Charness, N. (Apr 2015–Dec 2015). *The Flashing Right Turn Signal with Pedestrian Indication: Human Factors Studies to Understand the Potential of a New Signal to Increase Awareness of and Attention to Crossing Pedestrians*. Funded by Florida Department of Transportation. Total award \$52,505.

Boot, W. R., Charness, N., Sando, T., & Mitchum, A. (Jan 2015–Aug 2016). *Understanding Contributing Factors to Wrong-way Crashes and Evaluating the Effectiveness of Countermeasures in Reducing Wrong Way Crash Risk of Older Drivers*. Funded by DOT supported ASAP University Transportation Center. Total award \$204,926.

Boot, W. R., & Czaja, S. J. (Jan 2015–Jan 2016). *Supporting LGBT Seniors – Development and Dissemination of Resource Guides for an at Risk Population*. Funded by Committee on

Division/American Psychological Association Relations (CODAPAR). Total award \$6,500.

Charness, N., & Boot, W. R. (2015–2020). *CREATE IV - Center for Research and Education on Aging and Technology Assessment*. Funded by National Institutes of Health/National Institute on Aging. Total award \$1,000,000.

Boot, W. R., & Charness, N. (Jun 2014–Sep 2015). *Driving Simulator Studies of the Effectiveness of Countermeasures to Prevent Wrong Way Crashes*. Funded by Florida Department of Transportation. Total award \$220,000.

Patrick, C. J., & Boot, W. R. (Feb 2014–Jan 2019). *Individual Differences and Adaptive Flexibility: A Psychoneurometric Analysis*. Funded by US Army Research Office. Total award \$1,889,818.

Boot, W. R., & Charness, N. (Jan 2014–Aug 2014). *Ensuring the Safety of Bicyclist Infrastructure for an Aging Population*. Funded by DOT supported ASAP University Transportation Center. Total award \$60,000.

Boot, W. R. (Jan 2014–Aug 2014). *Spatial Context Transportation Safety Analysis for the Aging Population*. Funded by DOT supported ASAP University Transportation Center. Total award \$23,621.

Boot, W. R., & Charness, N. (Jun 2012–Jun 2014). *Aging Road User, Bicyclist and Pedestrian Safety: Aging and Signalized Intersection Safety*. Funded by Florida Department of Transportation. Total award \$354,198.

Charness, N., & Boot, W. R. (Apr 2012–Mar 2014). *Aging Surveys II (SBIR - Phase II)*. Funded by National Institute on Aging. Total award \$378,620.

Charness, N., & Boot, W. R. (Sep 2011–Aug 2013). *Predictors for the Use of E-Health by Senior Citizens and Care Professionals (PETZ)*. Funded by Netherlands Government. Total award \$30,000.

Boot, W. R., & Charness, N. (Jun 2011–Nov 2012). *Aging Road User, Bicyclist and Pedestrian Safety: Effective Bicycling Signs and Preventing Left-Turn Crashes*. Funded by Florida Department of Transportation. Total award \$207,542.

Boot, W. R., Charness, N., Radach, R., LaPoint, L. L., & Brummel-Smith, K. (2010–2011). *A High-Fidelity Driving Simulator for the Study Of Human Perception and Performance Across the Lifespan*. Funded by FSU Office of Research. Total award \$23,200.

Charness, N. H., & Boot, W. R. (2009–2014). *CREATE III - Center for Research and Education on Aging and Technology Enhancement*. Funded by National Institutes of Health/National Institute on Aging. Total award \$1,000,000.

Kramer, A. F., Boot, W. R., Erickson, K. I., Basak, C., Neider, M. B., Prakash, R. S., Voss, M. W., Graybiel, A. M., & Simons, D. J. (2007–2012). *Capitalizing on Research on Animal and Human Brain Plasticity to Enhance Warfighter Training and Performance*. Funded by Office of Naval Research. Total award \$6,750,000.

Kramer, A. F., & Boot, W. R. (2004–2006). *Experiments to Address Display Interface and Training Issues for the Navy's DCL System*. Funded by Office of Naval Research. Total award \$282,347.

Kramer, A. F., Boot, W. R., Gratton, G., Fabiani, M., & Simons, D. J. (2004–2006). *A Cognitive Neuroscience Approach for Enhancing Training and Performance*. Funded by Office of Naval Research. Total award \$625,780.

### **Contracts and Grants Pending**

Boot, W. R., & Charness, N. (May 2021). *CREATE V - Center for Research and Education on Aging and Technology Enhancement*. Submitted to National Institutes of Health/National Institute on Aging.

### **Contracts and Grants Denied**

Carr, D. (PI), & Boot, W. R. (Co-PI). (Oct 2018). *(RO1) The Benefits of Volunteering: Identifying the Mechanisms for Enhancing Cognitive Function*. Submitted to National Institutes of Health.

## **Service**

### **Florida State University**

#### **FSU University Service**

Candidate Interviewer, Presidential Scholars Program (2014–2018).

Member for the evaluation of Instructional Systems and Learning Technologies program, University Graduate Policy Committee (GPC) Subcommittee (2017).

Member, Brain Health and Disease Initiative Search Committee (2014–2016).

Member, Human Functional Magnetic Resonance Imaging Planning Committee (2014–2016).

Member, Institute for Successful Longevity Director Search (2012–2014).

### **FSU Department Service**

Director of Graduate Studies and Chair of Graduate Studies Committee, Graduate Studies Director (2020–present).

Area Head, Cognitive Psychology (2014–present).

Chair, Faculty Development Committee (2017–2019).

Psychology Department Honors Thesis Liaison, Honors Thesis Program (2014–2019).

Chair, Undergraduate Research Day Committee (2014–2017).

Chair, Information Technology Committee (2014–2016).

Committee Member, Undergraduate Studies Committee (2012–2014).

Chair, Graduate Research Day Committee (2011–2013).

Committee Member, Facilities Committee (2011–2012).

Committee Member, Space Committee (2010–2012).

Committee Member, Graduate Research Day Committee (2010–2011).

Committee Member, Elections Committee (2008–2010).

### **The Profession**

#### **Editor for Refereed Journals**

Consulting Editor, *Journal of Experimental Psychology: Human Perception and Performance* (2012–present).

Consulting Editor, *Attention, Perception, & Psychophysics* (2011–present).

Associate Editor, *Journal of Experimental Psychology: Applied* (2014–2020).

Consulting Editor, *Journal of Experimental Psychology: Applied* (2013–2014).

### **Guest Editing for Refereed Journals**

Boot, W. R., Gutman, G., Fozard, J., Kearns, W., & Leong, S. (Eds.). (2018). Conference Issue [Special Issue]. *Gerontechnology: Official Journal of the International Society for Gerontechnology*, 17.

### **Service to Professional Associations**

Technology and Aging Interest Group Convenor, Gerontological Society of America (2018–present).

Chair, Committee on Aging (CONA) - American Psychological Association (2017–2019).

Co-Chair, International Scientific Advisory Committee, International Society for Gerontechnology (2017–2018).

Program Chair, Division 20 - American Psychological Association (2014–2016).

### **Teaching**

#### **Courses Taught**

Visual Information Processing (Grad Seminar, taught 3 times at FSU) (EXP 6609)

Honors Seminar (Undergrad, taught 4 times at FSU) (PSY 4970)

Undergraduate Human Factors (taught 3 times at FSU) (PSY 4930)

Graduate Human Factors (EXP 6609)

Attention from Theory to Practice (Grad Seminar, taught 2 times at FSU) (EXP 6609)

Mysteries of Cognition (Team Taught, Grad Seminar) (PSY 6919)

Training and Transfer of Skill (Grad Module, taught 2 times at FSU) (PSY 6919)

Research Methods in Psychology with Laboratory (Undergrad, taught 8 times at FSU) (PSY 3213-C)

#### **Doctoral Committee Chair**

Roque, N. A., graduate. (2018). *Reliably Measuring Attention Capture: Challenges and New Approaches*.

Wright, T. J., graduate. (2015). *Exploring the Moderating Effect of Top-down and Bottom-up Factors in the Relationship Between Working Memory and Inattentional Blindness*.

Harrell, E. R., doctoral candidate.

Dieciuc, M., doctoral candidate.

Andringa, R., doctoral student.

**Doctoral Committee Member**

- Souders, D. J., graduate. (2018). *Investigating the Effects of Multiple Advanced Driver Assistance Systems on Older Drivers' Simulated Driving Performance and System Acceptance.*
- Berry, C. A., graduate. (2017). *Belief Systems and Executive Functioning.*
- Komsky, J. C., graduate. (2017). *Memory Consolidation during Post-Encoding Wakeful Rest.*
- Kutta, T. J., graduate. (2017). *Note-taking and Technology.*
- Macatee, R. J., graduate. (2017). *Evaluation of a Novel Behavioral Indicator of Distress Intolerance.*
- Sarawgi, S. N., graduate. (2017). *What intolerance of uncertainty and intolerance of ambiguity look like: A construct validation of two transdiagnostic factors and their differential relationship with checking symptoms.*
- Best, R. M., graduate. (2016). *Age Differences in the Subjective Valuation of Technology.*
- Negley, J., graduate. (2016). *Interference and Facilitation: Reminding and Educationally Relevant Materials.*
- Parise, E. M., graduate. (2016). *Neurocircuitry Underlying Ketamine-Induced Antidepressant Effects During Adolescence.*
- Shepherd, M., graduate. (2016). *Counting Sleep: The Effectiveness of Message Framing to Increase Sleep Duration and Quality.*
- Silva, C., graduate. (2016). *Don't Drop the Ball! Effects of a Burdensomeness Manipulation and The Capability for Suicide on a Proxy for Lethal Approach Behavior.*
- Stothart, C., graduate. (2016). *An Exploration of the Time Course of Attention Sets for Object Features.*
- Town, T., graduate. (2016). *The Role of Prior Experience in Performance and Transfer within the Space Fortress Game.*
- Venables, N. C., graduate. (2016). *Toward a Cross-Domain Conception of Inhibitory Control Capacity as Relevant to Impulse Control Problems.*
- Yoon, J. S., graduate. (2016). *An Expert-Performance Approach to the Study of the Development of Understanding During Complex Learning: Capturing the Development of Understanding of the 8-Puzzle and Its Mechanism.*
- Beck, C., graduate. (2015). *Components of Anti-Muslim Prejudice: The Role of Right-Wing Authoritarianism.*
- Ward, E. S., graduate. (2015). *Imagining Is Believing: Locus of Control Orientation Determines the Impact of Mere Imaginings on Social Judgment.*
- Fulmer, B. P., graduate. (2014). *Attention and Effort in Investment Decision Under the Influence of Gains and Losses.*
- Rushing, N., graduate. (2014). *Neuropsychological Indicators of Preclinical Alzheimer's Disease among Depressed Older Adults.*
- Brewer, L. E., graduate. (2013). *Free to Choose, Free to Dislike: Perceptions of Group Membership as a Choice Mediate the Relationship Between Belief in Free Will and Attitudes Toward Outgroup Members.*
- Nelson, L. D., graduate. (2012). *Externalizing Proneness and Psychophysiological Responses in a Reinforcement-Learning Task.*
- Jones, J. L., graduate. (2012). *Making the Connection between Elements Participating in Cognitive Associations: Constraints on Statistical Learning.*

- Day, S. L., graduate. (2012). *Examining the Relations Between Self-Regulation and Academic Achievement in Third Grade Student.*
- Fox, M. C., graduate. (2011). *A Knowledge-Based Theory of Rising Scores on "Culture-Free" Tests.*
- Sell, A. J., graduate. (2011). *Peri-Personal Space and the Representation of Quantity: Two Types of Re-Use Responsible for Motor and Spatial Compatibility Effects.*
- Carranza, J., doctoral candidate.
- Maranges, H., doctoral candidate.
- Yancey, J., doctoral candidate.
- Greenwood, M. A., doctoral candidate.
- Yazbec, A., doctoral candidate.
- Ennis, C. R., doctoral student.
- Wood, S. G., doctoral student.

### **Doctoral Committee University Representative**

- Emihovich, B. W., graduate. (2017). *Improving Undergraduates' Problem-Solving Skills through Video Gameplay.*
- Wang, L., graduate. (2017). *To Help, or Not to Help? An Investigation of the Effects of Learning Support in Physics Playground.*
- Bedard, R., doctoral candidate.
- Wang, Y., doctoral candidate.
- Liu, S., doctoral candidate.
- Rahimi, S., doctoral candidate.
- Wu, Y., doctoral candidate.
- Doczy, R. D., doctoral student.
- Mafi, S., doctoral student.

### **Master's Committee Chair**

- Andringa, R., graduate. (2015). *Can Hand Position Enhance Target Detection in a Complex, Real-World Visual Search Task?*
- Roque, N. A., graduate. (2015). *Do different attention capture paradigms measure different types of capture?*
- Blakely, D. P., graduate. (2013). *On the Precision of Attention Sets: The Effect of Multiple Cues on Contingent Capture.*
- Wright, T. J., graduate. (2013). *Pupillary Response Predicts Multiple Object Tracking Load, Error Rate, and Conscientiousness, but Not Inattentional Blindness.*

### **Master's Committee Member**

- Wilver, N. L., graduate. (2017). *Interpretation Bias Modification for Body Dysmorphic Disorder: Evaluation of Internet-Based Treatment.*
- Yancey, J. R., graduate. (2017). *Taskswitching under Threat of Shock: A novel laboratory paradigm for investigating cognitive control in an aversive cuing context.*
- Beck, C. L., graduate. (2015). *Components of anti-muslim prejudice: The role of right-wing authoritarianism.*
- Carranza, J., graduate. (2015). *Individual Differences: Accounting for Variation in Embodied Language Processing Effect.*
- Fox, M. R., graduate. (2015). *Implicit Spatial Cues in Language.*
- Komsky, J. C., graduate. (2015). *Conscious Replay during Rest and Relational Processing.*
- Rotolo, A. N., graduate. (2015). *re All Measures of Inhibition Creatively Equal? : The Differential and Interaction Effects of Inhibition Type on Creativity.*
- Kothur, S. R., graduate. (2014). *Reward Positivity, But Not Feedback Negativity, is Sensitive to Reward History.*
- Little, C., graduate. (2014). *An Investigation of Digital Technology Use Among High School Students.*
- Souders, D. J., graduate. (2013). *Investigating Older Adult Video Game Preferences.*
- Macpherson, S. A., graduate. (2012). *Ego depletion decreases trust in economic decision making.*
- Crescioni, A. W., graduate. (2011). *Wearing Your Heart on Your Sleeve: Information about a Target's Emotions Increases the Extent to which Individuals Feel They Have Learned about That Target's Personality.*
- Best, R. M., graduate. (2011). *The Effect of Age on Discounting of Technology-Related Learning.*
- Rushing, N., graduate. (2011). *Neurocognitive Function and Dementia in Early versus Late-Onset Depression: Relation to the Glucocorticoid Cascade and Prodrome Hypotheses of Depression and Dementia.*
- Towne, T. J., graduate. (2010). *Problem Solving, Automaticity & Intelligence: Evidence for Changes in Mental Representations with Practice.*
- Green, A., graduate. (2010). *The Accuracy of Regressions During Reading.*
- Sorenson, P., student. *To recognize or not to recognize: What is the effect of savings?*
- Matheny, N., student. *Interpretation bias modification training for body dysmorphic disorder: The evaluation of an online eight-session computerized treatment.*
- Wood, S. G., student. *Effects of ADHD and test anxiety on reading comprehension and test performance.*

### **Additional Teaching Not Reported Elsewhere**

- Boot, W. R. (2018–2019). *Chair of Honors Thesis: Does Color Preference Influence Attention Capture, by Mimi Trinh.*
- Boot, W. R. (2018–2019). *Chair of Honors Thesis: Exploring the Relationship between Depression and Attentional Control, by Brooke Llerena.*



- Boot, W. R. (2018). *Chair of Honors Thesis: Is Brain Training Worth It? Exploring Predictors of Individuals' Willingness to Engage in Brain Training*, by Brandon Kmetz.
- Boot, W. R. (2018–2019). *Chair of Honors Thesis: Predictors of Older Adult's Willingness to Engage in Brain, Exercise, and Meditation Training*, by Danielle Onafraychuk.
- Boot, W. R. (2017). *Chair of Honors Thesis: An Exploratory Analysis of the Predictors of Attention Capture*, by Giancarlo Barrios.
- Boot, W. R. (2017). *Chair of Honors Thesis: Exploring Predictors of Mobile Device Usage and Proficiency Among Older Adults*, by Kimberly Champagne.
- Boot, W. R. (2017). *Chair of Honors Thesis: Malleability of Measures of Cognitive Ability*, by Megan Bayles.
- Boot, W. R. (2017). *Chair of Honors Thesis: Older Adults' Willingness to Engage in Brain Training*, by Brandon Kmetz.
- Boot, W. R. (2017). *Chair of Honors Thesis: Virtual Reality and the Digital Divide*, by Andrew Dilanchian.
- Boot, W. R. (2014). *Chair of Honors Thesis: Development of an Emotional Task-Switch Paradigm to Explore Boldness and Inhibition-Disinhibition as Moderators of Task-Switch Performance*, by Colin Bowyer.
- Boot, W. R. (2014). *Chair of Honors Thesis: Do Individual Differences in Eye Movement Scanning Predict Simulator Sickness?*, by Kimberly G. Barajas.
- Boot, W. R. (2014). *Chair of Honors Thesis: Does Verb Use Affect Mood and Happiness*, by Juan Diego Vera.
- Boot, W. R. (2012). *Chair of Honors Thesis: An Investigation into the Types of Video Games Older Adults are Willing to Play and Why*, by Kenneth Blocker.
- Boot, W. R. (2012). *Chair of Honors Thesis: Attention Capture and Web Design to Motivate Donating Behavior*, by Nelson Roque. Florida State University.
- Boot, W. R. (2012). *Chair of Honors Thesis: Driven to Distraction. The Effect of Red Light Running Camera Flashes*, by Robert Sall. Florida State University.
- Boot, W. R. (2012). *Chair of Honors Thesis: The Effect of Reward on the Allocation of Attention*, by Ronald Andringa. Florida State University.
- Boot, W. R. (2011). *Chair of Honors Thesis: Disrupting Intrusive Memory Formation*, by Rebekah Landbeck. Florida State University.

Boot, W. R. (2011). *Chair of Honors Thesis: The Effect of Cognitive Load on Distraction during Visual Search*, by Katryne Michaud. Florida State University.

Boot, W. R. (2011). *Chair of Honors Thesis: The Effect of Motivation on Visual Processing*, by Angeliki Beyko. Florida State University.

Boot, W. R. (2009). *Chair of Honors Thesis: The Cognitive & Musical Aspects of Guitar Hero Expertise*, by Dustin J. Souders. Florida State University.