

CURRICULUM VITA

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EDUCATION

- 2007 PH.D., VISUAL COGNITION AND HUMAN PERFORMANCE
Department of Psychology, University of Illinois at Urbana-Champaign
- 2003 M.A., VISUAL COGNITION AND HUMAN PERFORMANCE
Department of Psychology, University of Illinois at Urbana-Champaign
- 2001 B.S. IN PSYCHOLOGY
State University of New York at Stony Brook (cum laude)

TEACHING INTERESTS

Visual cognition and attention, sensation and perception, introductory psychology, cognitive psychology, human factors, research methods

TEACHING EXPERINCE

Teaching Assistant:

Fall 2001 Introduction to Experimental Psychology (with Kathryn Bock)
University of Illinois at Urbana-Champaign

Teaching:

Spring 2009 Research Methods with Lab
Florida State University

RESEARCH INTERESTS

Broad: cognition, attention, perception, memory, cognitive aging

Specific: The memory mechanisms that guide attention during visual search, the nature of memory representations formed during search, aging and search efficiency, inhibition

of return, how attention is guided and captured by stimulus features, training and search, the effects of video game experience on perception and cognition, cognitive aging interventions

HONORS AND AWARDS

36th Carnegie Symposium on Cognition Travel Fellowship, 2009

Council on Research and Creativity First Year Assistant Professor Award, 2009

The Royal Society of Edinburgh Travel Award, 2007

University Fellowship, University of Illinois at Urbana-Champaign, 2004-2005

Paul D. Doolen Graduate Award for the Study of Aging, Alternate Winner, 2004

EXTERNAL RESEARCH SUPPORT

Office of Naval Research, "Capitalizing on Research on Animal and Human Brain Plasticity to Enhance WarFighter Training and Performance", 2007-2012, \$6,750,000. Role: Co-Investigator.

Office of Naval Research, "A cognitive neuroscience approach for enhancing training and performance", 2005-2006, \$ 625,780. Role: Co-Investigator.

Office of Naval Research, "Experiments to address display interface and training issues for the Navy's DCL system", 2004-2006, \$ 282,347. Role: Co-Investigator.

PUBLICATIONS

Boot, W.R., Neider, M.B., & Kramer, A.F. (in press). Training and transfer in search for camouflaged real-world targets. *Attention, Perception & Psychophysics*.

Brockmole, J.R. & Boot, W.R. (in press). Should I stay or should I go?: Attentional disengagement from unique items at fixation. *Journal of Experimental Psychology: Human Perception and Performance*.

Charness, N. & Boot, W.R. (in press). Aging and information technology use: Potential and barriers. *Current Directions in Psychological Science*.

Boot, W. R., Becic, E., & Kramer, A. F. (2009). Stable individual differences in search strategy?: The effect of task demands and motivational factors on scanning strategy in visual search. *Journal of Vision*, 9, 1-16.

- Basak, C., Boot, W.R., Webb, M., & Kramer, A.F. (2008). Can training in a real-time strategy videogame attenuate cognitive decline in older adults? *Psychology and Aging, 23*, 765-777.
- Boot, W.R., Kramer, A.F., Simons, D.J., Fabiani, M., & Gratton, G. (2008). The effects of video game playing on attention, memory, and executive control. *Acta Psychologica, 29*, 387-398.
- Becic, E., Boot, W.R., Kramer, A.F. (2008). Training older adults to search more effectively: Scanning strategy and visual search in dynamic displays. *Psychology and Aging, 23*, 461-466.
- Boot, W.R., Becic, E., & Kramer, A.F. (2007). Temporal limitations in multiple target detection in a dynamic monitoring task. *Human Factors, 49*, 897-906.
- Becic, E., Kramer, A.F., & Boot, W.R. (2007). Age-related differences in the use of background layout in visual search. *Aging, Neuropsychology and Cognition, 14*, 109-125.
- Becic, E., Kramer, A.F., Boot, W.R. (2007). Age-related differences in change detection performance in dynamic displays. *Psychology and Aging, 22*, 67-74.
- Boot, W.R., Kramer, A.F., Becic, E., Wiegmann, D.A., & Kubose, T. (2006). Detecting transient changes in dynamic displays: The more you look, the less you see. *Human Factors, 48*, 759-773.
- Boot, W.R., Kramer, A.F., & Becic, E. (2006). Capturing attention in the laboratory and the real world. In A. Kramer, D. Wiegmann, & A. Kirlik (Eds.) *Applied Attention: From Theory to Practice*, N.Y.: N.Y. Oxford University Press.
- Beck, M.R., Peterson, M.S., Boot, W.R., Vomela, M. & Kramer, A.F. (2006). Explicit memory for rejected distractors during visual search. *Visual Cognition, 14*, 150-174.
- Kramer, A.F., Boot, W.R., McCarley, J.S., Peterson, M.S., Colcombe, A., & Scialfa, C.T. (2006). Aging, memory and visual search. *Acta Psychologica, 122*, 288-304.
- McCarley, J.S., Kramer, A.F., Boot, W.R., Peterson, M.S., Wang, F. R., & Irwin, D.E. (2006). Oculomotor behavior in visual search for multiple targets. *Visual Cognition, 14*, 685-703.
- Boot, W.R., Brockmole, J.R., & Simons, D.J. (2005). Modulation of attention capture in a dual-task situation: Why capture cannot be stimulus-driven. *Psychonomic Bulletin and Review, 12*, 662-668.

Boot, W. R., Kramer, A.F., & Peterson, M.S. (2005). Oculomotor consequences of abrupt object onsets and offsets: Onsets dominate oculomotor capture. *Perception and Psychophysics*, *67*, 910-928.

Kramer, A.F., Peterson, M.S., McCarley, J.S., & Boot, W.R. (2005). Role of memory in visual search: A brief review of developing literature. In D.K. McBride & D. Schmorrow (Eds.), *Quantification of Human Information Processing*. Rowman & Littlefield Publishers.

Simons, D.J., Nevarez, G., & Boot, W.R. (2005). Visual sensing is seeing: Why "mindsight", in hindsight, is blind. *Psychological Science*, *16*, 520-524.

Boot, W.R., McCarley, J.S., Kramer, A.F., & Peterson, M.S. (2004). Automatic and intentional memory processes in visual search. *Psychonomic Bulletin and Review*, *5*, 854-861.

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.

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.

IN PREPARATION, UNDER REVIEW AND SUBMITTED

Basak, C., Voss, M.W., Erickson, K., Boot, W.R., & Kramer, A.F. (submitted). Regional differences in brain volume predict the acquisition of skill in a complex real-time strategy videogame.

Neider, M.B., Boot, W.R., & Kramer, A.F. (submitted). Visual search for real-world targets under conditions of extreme target-background similarity: Exploring training and transfer in older adults.

POSTERS AND PRESENTATIONS

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. (2009). Predicting training success from pre-training brain activity. Presented at *The 15th Meeting of the Organization for Human Brain Mapping*, San Francisco, CA.

Low, K., Boot, W.R., Stanley, T., Mathewson, K.E., Kramer, A.F., Fabiani, M., & Gratton, G. (2008). Training on a complex task affects dual task event-related brain potentials. Presented at *The 48th Meeting of the Society for Psychophysiological Research*, Austin, TX.

- Boot, W.R., McCarley, J.S., Peterson, M.S., & Kramer, A.F. (2008). Memory mechanisms make search efficient during static and dynamic search. Presented at *XXIX International Congress of Psychology*, Berlin, Germany.
- Boot, W.R., Neider, M.B., & Kramer, A.F. (2008). Training older adults to search for camouflaged targets. Presented at *Cognitive Aging Conference*, Atlanta, GA.
- Boot, W.R., Neider, M.B., & Kramer, A.F. (2007). Training and transfer in search for camouflaged real-world targets. Presented at *The 7th Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- Basak, C., Boot, W.R., Webb, M., & Kramer, A.F. (2006). Exploring game-specific and age-specific effects of videogame training on cognitive abilities. Presented at *The 47th Meeting of the Psychonomics Society*, Houston, TX.
- Endo, N., Boot, W.R., Kramer, A.F., Lleras, A., & Kumada, T. (2006). Spatial context learning and switching strategy. Presented at *The 47th Meeting of the Psychonomics Society*, Houston, TX.
- Mestre, J., Feil, A., Boot, W., & Kramer, A. (2006). Tracking eye-movements in students' judgments of realistic motion. Presented at the *Summer Meeting of the American Association of Physics Teachers*, Syracuse, NY.
- 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. (2006). The Effects of Video Game Playing on Perceptual and Cognitive Abilities. *The 6th Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- Basak, C., Boot, W.R., Webb, M., & Kramer, A.F. (2006). Can cognitive training attenuate the effects of aging? Presented at *Cognitive Aging Conference*, Atlanta, GA.
- Becic, E., Kramer, A.F., & Boot, W.R. (2006). Age-related differences in change detection performance in dynamic displays. Presented at *Cognitive Aging Conference*, Atlanta, GA.
- Boot, W.R., Becic, E., Kramer, A.F., Kubose, T.T., & Wiegmann, D.A. (2005). Detecting transient changes in dynamic displays: The more you look, the less you see. Presented at *The 5th Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- Peterson, M.S., Beck, M.R., Boot, W.R., Vomela, M., & Kramer, A.F. (2005). Little is remembered about rejected distractors in visual search. Presented at *The 5th Annual Meeting of the Vision Sciences Society*, Sarasota, FL.

- Boot, W.R., Becic, E., Kramer, A.F., McCarley, J.S., & Peterson, M.S. (2004). Aging and memory for distractors in visual search. Presented at *The 45th Meeting of the Psychonomics Society*, Minneapolis, MN.
- Simons, D.J., Nevarez, G., & Boot, W.R. (2004). Visual sensing is seeing: Why hindsight, in hindsight, is blind. Presented at *The 45th Meeting of the Psychonomics Society*, Minneapolis, MN.
- Boot, W.R., Kramer, A.F., McCarley, J.S., Peterson, M.S., & Scialfa, C.T. (2004). Older adults display a larger memory span than younger adults in visual search. Presented at *Cognitive Aging Conference*, Atlanta, GA.
- Boot, W.R., Kramer, A.F., McCarley, J.S., & Peterson, M.S. (2003). The spatial dynamics of memory representations formed during visual search. Presented at *The 11th Annual Workshop on Object Perception Attention and Memory*, Vancouver, BC.
- Brockmole, J.R., Boot, W.R., Simons, D.J., & Alexander, A. L. (2003). Time's up for contingent capture: Contingent capture explained by temporal confusion. Presented at *The 11th Annual Workshop on Object Perception Attention and Memory*, Vancouver, BC.
- Brockmole, J.R., Boot, W.R., & Simons, D.J. (2003). An auditory secondary task modulates attention capture in visual search. Presented at *The 3rd Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- McCarley, J.S., Kramer, A.F., Boot, W.R., & Colcombe, A.M. (2003). Automatic and intentional memory processes in saccade target selection. Presented at *The 3rd Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- Peterson, M.S., Boot, W.R., & Kramer, A.F. (2003). Environmental cues modulate memory during visual search. Presented at *The 3rd Annual Meeting of the Vision Sciences Society*, Sarasota, FL.
- Boot, W.R., Kramer, A. F., & Peterson, M.S. (2002). Oculomotor consequences of onsets and offsets. Presented at *The 10th Annual Workshop on Object Perception Attention and Memory*, Kansas City, MO.