

J. CARSON SMITH

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Citizenship Status: U.S. resident

Education

1993 Arizona State University, B.S. (double major) Psychology & Exercise Science
- *Summa Cum Laude*
2000 University of Georgia, Ph.D., Exercise Science (Specialization: Exercise Psychology)

Employment

2011-present Assistant Professor Department of Kinesiology | School of Public Health
Neuroscience and Cognitive Science Program
Maryland Neuroimaging Center
University of Maryland | College Park

2010-2011 Assistant Professor Department of Health Sciences | Biomedical Sciences Program
University of Wisconsin-Milwaukee

2007-present Assistant Adjunct Professor Department of Neurology
Medical College of Wisconsin

2005-2010 Assistant Professor Department of Human Movement Sciences
University of Wisconsin-Milwaukee

2000-2005 Post-Doctoral Fellow NIMH – Center for the Study of Emotion and Attention
Affective Neuroscience and Psychophysiology
Department of Clinical and Health Psychology
University of Florida

2005 Instructor Department of Clinical and Health Psychology
“Health Psychology” University of Florida

1994 - 2000 Research Assistant Exercise Psychology Laboratory
Department of Exercise Science | University of Georgia

1998-1999 Teaching Assistant Exercise Physiology Laboratory
Department of Exercise Science | University of Georgia

1990-1993 Student Research Assistant Sport Psychology Laboratory
Exercise and Sport Research Institute
Arizona State University

1989-1993 Student Research Assistant Department of Psychology
Arizona State University

Honors & Awards

- Fellow, American College of Sports Medicine, 2011
- Investigator of the Year, Alzheimer's Association Southeastern Wisconsin Chapter, 2009
- Clinical Research Scholars NIH-K30 Program (Appointment 2009-2011), Division of Epidemiology, Department of Population Health, Medical College of Wisconsin.
- Student Poster Award, Society for Psychophysiological Research – 2000
- Outstanding Teaching Assistant Award, University of Georgia – 2000
- Travel Award Recipient – University of Wisconsin HealthEmotions Research Institute Symposium on Emotion – 1999

Published or Accepted Articles

Keil, A., Costa, V., **Smith, J.C.**, Sabatinelli, D., McGinnins, E.M., Bradley, M.M., & Lang, P.J. (In Press). Tagging cortical networks in emotion: a topographical analysis. *Human Brain Mapping*. doi: 10.1002/hbm.21413 [2010 Impact Factor: 5.107]

Woodard, J.L., Nielson, K.A., Sugarman, M., **Smith, J.C.**, Seidenberg, M., Durgerian, S., Butts, A.M., Hantke, N.C., Lancaster, M.A., & Rao, S.M. (In Press). Lifestyle and genetic contributions to cognitive decline and hippocampal integrity in healthy aging. *Current Alzheimer Research*, 9, xxx-xxx. [2010 Impact Factor: 4.953]

Sugarman, M., Woodard, J.L., Nielson, K.A., Seidenberg, M., **Smith, J.C.**, Durgerian, S., & Rao, S.M. (2012). Functional magnetic resonance imaging of semantic memory as a presymptomatic biomarker of Alzheimer's disease risk. *Biochimica et Biophysica Acta - Molecular Basis of Disease*, 1822, 442-456. Invited review, Imaging Brain Aging and Neurodegenerative Disease. doi:10.1016/j.bbadis.2011.09.016 [2010 Impact Factor: 5.211]

Tian, Q., & **Smith, J.C.*** (2011). Attentional bias to emotional stimuli is altered during moderate but not high intensity exercise. *Emotion*, 11, 1415-1424. E-Pub 27 June 2011. doi: [10.1037/a0023568](https://doi.org/10.1037/a0023568). [2010 Impact Factor: 3.027] * Senior Corresponding Author

Smith, J.C., Nielson, K.A., Woodard, J.L., Antuono, P., Seidenberg, M., Durgerian, S., Verber, M.D., Butts, A.M., Hantke, N.C., Lancaster, M.A., & Rao, S.M. (2011). Does physical activity influence semantic memory activation in amnesic mild cognitive impairment? *Psychiatry Research: Neuroimaging*, 193, 60-62. [2010 Impact Factor: 2.064]

Smith, J.C., Nielson, K.A., Woodard, J.L., Seidenberg, M., Durgerian, S., Antuono, P., Butts, A., Hantke, N., & Rao, S.M. (2011). Interactive effects of physical activity and APOE-ε4 on BOLD semantic memory activation in healthy elders. *NeuroImage*, 54, 635-644. doi: 10.1016/j.neuroimage.2010.07.070 [2010 Impact Factor: 5.937]

Shields, M.R., Larson, C.L., Swartz, A.M., and **Smith, J.C.*** (2011). Visual threat detection during moderate and high intensity exercise. *Emotion*, 11, 572-581. [2010 Impact Factor: 3.027] * Senior Corresponding Author

Smith, J. C., Zalewski, K. R., Motl, R. W., Van Hart, M., Malzahn, J. T. (2010). The contributions of self-efficacy, trait anxiety, and fear of falling to physical activity behavior among residents of continuing care retirement communities. *Ageing Research*, 2, e3. doi:10.4081/ar.2010.e3. [Impact Factor not available]

Woodard, J. L., Seidenberg, M., Nielson, K. A., **Smith, J. C.**, Antuono, P, Durgerian, S., Guidotti, L., Zhang, Q., Butts, A., Hantke, N., Lancaster, M., and Rao, S. M. (2010). Prediction of cognitive decline in healthy older adults using fMRI. *Journal of Alzheimer's Disease*, *21*, 871-885. doi: 10.3233/JAD-2010-091693. Available online 15 July 2010. [2010 Impact Factor: 4.261]

Smith, J. C., Paulson, E. S., Cook, D.B., Verber, M., and Tian, Q. (2010). Detecting changes in human cerebral blood flow after acute exercise using arterial spin labeling: Implications for fMRI. *Journal of Neuroscience Methods*, *191*, 258-262. doi:10.1016/j.jneumeth.2010.06.028 [2010 Impact Factor: 2.100]

Zalewski, K.R., **Smith, J.C.**, Malzahn, J., VanHart, M., & O'Connell, D. (2009). Measures of physical ability are unrelated to objectively measured physical activity behavior in older adults residing in continuing care retirement communities. *Archives of Physical Medicine and Rehabilitation*, *90*, 982-986. [2010 Impact Factor: 2.254]

Löw, A, Lang, P. J., **Smith, J. C.**, & Bradley, M. M. (2008). Both predator and prey: Emotional arousal in threat and reward. *Psychological Science*, *19*, 865-873. [Impact Factor: 5.090]

Keil, A., **Smith, J. C.**, Wangelin, B., Bradley, M. M., Sabatinelli, D., & Lang, P. J. (2008). Electrocutaneous and electrodermal responses co-vary as a function of emotional arousal: A single-trial analysis. *Psychophysiology*, *45*, 516-523. [2010 Impact Factor: 3.263]

Crabbe, J. B., **Smith, J. C.**, and Dishman, R. K. (2007). Emotional and electrocortical responses during affective picture viewing after exercise. *Physiology & Behavior*, *90*, 394-404. [Impact Factor: 3.295]

Smith, J.C., Löw, A., Bradley, M. M., & Lang, P. J. (2006). Rapid picture presentation and affective engagement. *Emotion*, *6*, 208-214. [2010 Impact Factor: 3.027]

Smith, J. C. & Cook, D. B. (2005). Methodology in psychophysiological studies of physical activity. Invited paper for a special issue, Five Decades of Sport and Exercise Psychology: A Festschrift for William P. Morgan. *International Journal of Sport and Exercise Psychology*, *3*, 534-553. [Impact Factor: 0.959]

Smith, J. C., & Motl, R. W. (2005). Electromyographic indices of neuromuscular reflexes. *International Journal of Sport and Exercise Psychology*, *3*, 322-337. [Impact Factor: 0.959]

Smith, J. C., Bradley, M. M., & Lang, P. J. (2005). State anxiety and affective physiology: Effects of sustained exposure to affective pictures. *Biological Psychology*, *69*, 247-260. [Impact Factor: 4.363]

Smith, J. C. & O'Connor, P. J. (2003). Physical activity does not disturb the measurement of startle and corrugator responses during affective picture viewing. *Biological Psychology*, *63*(3), 293-310. [2010 Impact Factor: 3.348]

Smith, J. C., O'Connor, P. J., Crabbe, J. B., and Dishman, R. K. (2002). Emotional responsiveness after low- and moderate-intensity exercise and seated rest. *Medicine & Science in Sports & Exercise*, *34*(7), 1158-1167. [Impact Factor: 3.707]

Homa, D., **Smith C.**, Macak, C., Johovich, J., & Osorio, D. (2001). Recognition of facial prototypes: The importance of categorical structure and degree of learning. *Journal of Memory and Language*, *44*, 443-474. [Impact Factor: 3.221]

Smith, J. C. and Crabbe, J. B. (2000). Emotion and exercise. *International Journal of Sport Psychology*, *31*, 156-174. [Impact Factor: 0.959]

O'Connor, P. J., **Smith, J. C.**, and Morgan, W. P. (2000). Physical activity does not provoke panic attacks in patients with panic disorder: A review of the evidence. *Anxiety, Stress, and Coping*, 13, 333-353. [Impact Factor: 1.545]

O'Connor, P. J. & **Smith, J. C.** (1999). Using mood to optimize endurance training and prevent staleness. *Vlaams tijdschrift voor Sportgeneeskunde & Sportwetenschappen (Flemish Journal of Sportsmedicine and Sportscience)*, 80(3), 14-19.

O'Connor, P. J., and **Smith, J. C.** (1999). Physical activity and eating disorders. In Rippe, J. M. (Ed.), *Lifestyle Medicine*. Blackwell Scientific Publications, Boston, 1005-1115.

Cook, D. B., O'Connor, P. J., Eubanks, S., **Smith, J. C.**, and Lee, M. (1997). Naturally occurring muscle pain during exercise: Assessment and experimental evidence. *Medicine and Science in Sports and Exercise*, 29, 999-1012. [2010 Impact Factor: 4.106]

Homa, D., Goldhardt, B., Burrue-Homa, L., and **Smith, J. C.** (1993). The influence of manipulated category knowledge on prototype classification and recognition. *Memory and Cognition*, 21, 529-538. [Impact Factor: 1.726]

Manuscripts submitted or in preparation

Smith, J.C. (in revision). Effects of emotional exposure on state anxiety after acute exercise. *Medicine & Science in Sports & Exercise*.

Hantke, N.C., Nielson, K.A., Woodard, J.L., Guidotti, L., Butts, A.M., Seidenberg, M., **Smith, J.C.**, Durgerian, S., Lancaster, M.A., Matthews, M., & Sugarman, M., Rao, S.M. (revision in review). Comparison of semantic and episodic memory BOLD fMRI activation in predicting cognitive decline in older adults. *Journal of the International Neuropsychological Society*.

Grants & Contracts

Ongoing

Funding Agency: University of Maryland Graduate School, Research and Scholarship Award (RASA)
Role: PI

Dates: 05/2012-8/2013

Title: "Assessing The Neuroprotective Effects Of Exercise In Humans By MRI Arterial Spin Labeling".

Total costs: \$9,000

Description: The aims of this project are to 1) compare the effects of acute moderate and high intensity exercise on cerebral blood flow measured by MRI ASL and 2) compare the effects in aim 1 among healthy younger and healthy older adults.

Funding Agency: University of Maryland, Maryland Neuroimaging Center

Role: PI

Dates: 03/2012-02/2013

Title: " Using Arterial Spin Labeling to Measure Exercise-Induced Cerebral Perfusion in Healthy Younger and Older Adults

Total costs: \$12,000 (no budget overlap with RASA)

Description: The aims of this project are to 1) compare the effects of acute moderate and high intensity exercise on cerebral blood flow measured by MRI ASL and 2) compare the effects in aim 1 among healthy younger and healthy older adults.

Funding Agency: NIH RC1 AG035775-01

Role: Co-I (subcontract from Cleveland Clinic, Rao, PI)

Dates: 9/30/2009-9/29/2011

Title: Neural Effects Of Exercise, Cognitive, Or Combined Training In Ad At-Risk Elders.

Total costs: \$996,865.

Description: This is a 12-week, four-arm, randomized, controlled, clinical trial to compare the efficacy of CT, ET, and Combined Training (CT+ET) relative to an Active Control (AC), consisting of educational and flexibility training. The primary outcome measure is task-activated fMRI, with secondary outcomes assessed with cognitive, ADL, and fitness assessments. The target intervention population will consist of cognitively intact, but physically inactive, older adults at-risk for developing AD based on a positive FH and APOE $\epsilon 4$ status.

Funding Agency: UWM Graduate School Research Growth Initiative

Role: PI

Dates: 07/2010-06/2012

Title: Effects Of Exercise On Brain Function In Older Adults At Risk For Alzheimer's Disease.

Total costs: \$386,460. (currently in no-cost extension)

Description: The specific goals of this project are to examine the effects of 3 months of moderate intensity exercise training in older adults at risk for AD and healthy controls. Task-induced, event-related functional activation will be measured during a semantic memory task. Participants will complete the walking exercise intervention 40-min per day, 4 days per week for 12-weeks.

Completed

Funding Agency: NIH-NIA Clinical Research Loan Repayment Program Contract CIU8669

Role: PI

Dates: 07/01/2009-06/30/2011 (awarded 08/07/09)

Title: A Community-Based Clinical Trial Using Exercise To Enhance Cognitive Function, Brain Function, And Resting Brain Blood Flow In Patients At Risk For Alzheimer's Disease.

Description: This is a competitive peer-reviewed NIH award that involves a two-year contract to engage in at least 50% effort related to research in exchange for the repayment of existing personal student loan debt.

Funding Agency: Medical College of Wisconsin CTSI, Small Pilot Project Grant

Role: PI

Dates: 07/2009-06/2010

Title: The Effects Of Exercise On Brain Function And Metabolic Profile In Dementia: A Collaborative Pilot Clinical Trial

Total costs: \$45,000

Description: The specific goals of this project are to examine the effects of 12-weeks of moderate intensity aerobic exercise training, compared to a flexibility exercise control condition, in older adults with MCI. Participants will complete the walking exercise intervention or flexibility control condition 40-min per day, 4 days per week for 12-weeks. Arterial spin labeling will be used to detect changes in cerebral blood flow, including the hippocampus, and markers of the metabolic syndrome will be obtained to examine relationships between improved brain function and improved metabolic profile.

Funding Agency: Medical College of Wisconsin, Center for Imaging Research

Role: PI

Dates: 09/2007-09/2012

Title: Functional Brain Imaging And Mood After Exercise

Total Costs: \$19,270

Description: The central goal of this project is to examine brain activation patterns after a single session of moderate intensity exercise, compared to a resting control condition, during the viewing of pictures rated as pleasant, neutral, and unpleasant among those who report high negative affect compared to those who report low negative affect. A secondary purpose is to determine whether exercise alters

hemodynamic coupling in motor cortex by measuring the BOLD response and blood flow during a standard finger-tapping task.

Funding Agency: NIH/NIMH F32 MH-066601

Role: PI

Dates: 02/2003-01/2005

Title: Physiological Responses To Pictures And Exercise In Dysphoria

Total costs: \$96,898

Description: This project made a cross-sectional comparison of psychophysiological indices (e.g., startle eye blink EMG, skin conductance) of emotional reactivity in individuals who varied in self-reported negative affect (dysphoria) and physical activity history.

Funding Agency: UWM Graduate School Research Committee Award

Role: PI

Dates: 07/2006-06/2007

Title: Exercise As A Treatment For Depression In Older Adults: Effects On Emotional Reactivity And Brain Function

Total costs: \$9,700

Description: This project examined the effects of exercise on symptoms of depression and psychophysiological and functional brain imaging indices of emotional reactivity among older adults diagnosed with major depressive disorder.

Funding Agency: UWM College of Health Sciences SEED Award

Role: PI

Dates: 07/2006-06/2007

Title: Predictors Of Physical Activity Behavior In Clinically Depressed Adults

Total costs: \$4,998

Description: This project is aimed at examining the social cognitive, environmental, demographic, physical function, and mental health-related factors that are predictive of physical activity behavior (measured via accelerometry) in adults who are clinically depressed. This work also involves testing older adults who live in continuing care retirement communities.

Funding Agency: UWM College of Health Sciences SEED Award

Role: Co-PI (with Huddleston)

Dates: 07/2008-06/2009

Title: Changes In Neural Oscillations Of Human Parietal Cortex Related To Performance On A Spatial-Attention Task

Total Costs: \$2,320

Description: This projects aims to determine the relationship between fMRI BOLD signal quality, a potentially informative BOLD signal parameter, and changes in oscillatory brain activity. Participants perform a covert spatial attention task while undergoing EEG. EEG will allow us to investigate different frequency bands of oscillatory activity and quantify changes in the power within the frequency bands when subjects' performance varies. The results may provide a novel and important link between fMRI, EEG and neural activity of the human brain.

Funding Agency: UWM Graduate School Research Growth Initiative

Role: Co-PI (with Keenan)

Dates: 07/2009-06/2010

Title: Cortico-Muscular Control Of Hand Function In Older Adults.

Total Costs \$141,782.

Description: The aim is to assess how impairments in hand function exhibited by older adults are influenced by: i) coherence between cortical and muscular oscillatory activity, and ii) coactivity among synergist muscles.

Published Abstracts and Conference Presentations

J. Carson Smith, FACSM, Sally Durgerian, John L. Woodard, Kristy A. Nielson, Alissa M. Butts, Nathan Hantke, Michael Seidenberg, Melissa A. Lancaster, Monica Matthews, Michael A. Sugarman, & Stephen M. Rao (2012). Physical Activity And Brain Function In Older Adults At Genetic Risk For Alzheimer's Disease. The 59th Annual Meeting of the American College of Sports Medicine, May 29-June 2, 2012, San Francisco, CA.

J. Carson Smith, Sally Durgerian, John L. Woodard, Kristy A. Nielson, Alissa M. Butts, Nathan Hantke, Michael Seidenberg, Melissa A. Lancaster, Monica Matthews, Michael A. Sugarman, Stephen M. Rao (2012). Longitudinal associations between physical activity, cognitive status, and brain function in older adults at genetic risk for Alzheimer's disease. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

John L. Woodard, Michael Seidenberg, Kristy A. Nielson, Michael A. Sugarman, J. Carson Smith, Sally Durgerian, Alissa M. Butts, Melissa A. Lancaster, Mary K. Foster, Nathan C. Hantke, Monica A. Matthews, Stephen M. Rao. (2012). Episodic Memory Measures Complement Structural and Functional MRI for Predicting Cognitive Decline in Apolipoprotein E ϵ 4 Carriers. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

Monica A. Matthews, Michael Seidenberg, John L. Woodard, Sally Durgerian, Kristy A. Nielson, J. Carson Smith, Melissa A. Lancaster, Alissa M. Butts, Nathan C. Hantke, Stephen M. Rao (2012). Five-Year Changes in Brain Volume and Episodic Memory in Cognitively Intact Elders With and Without an Apolipoprotein ϵ 4 Allele. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

Kristy A. Nielson, Michael A. Sugarman, John L. Woodard, Michael Seidenberg, J. Carson Smith, Sally Durgerian, Stephen M. Rao (2012). The contribution of blood serum biomarkers to the prediction of cognitive decline by fMRI and apolipoprotein-E in healthy older adults. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

Melissa Lancaster, Sally Durgerian, Michael Seidenberg, John Woodard, Kristy Nielson, J. Carson Smith, Monica Matthews, Alissa Butts, Nathan Hantke, Stephen Rao (2012). Prediction of Longitudinal White Matter Change in Healthy Elderly Individuals. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

Butts, A. M., Nielson, K. A., Hantke, N., Lancaster, M., Seidenberg, M., Woodard, J. L., Smith, J. C., Matthews, M., Sugarman, M.A., Durgerian, S., Rao, S. M. (2012). Distinguishing future cognitive decline in healthy elders using two methods for measuring hippocampal volumes. The Annual Meeting of the Cognitive Neuroscience Society, March 31-April 3, 2012, Chicago, IL.

Matthews, M. A., Seidenberg, M., Woodard, J. L., Durgerian, S., Nielson, K. A., Smith, J. C., Lancaster, M. A., Butts, A. M., Hantke, N. C., & Rao, S. M. (2012). Person-Identity Semantics Predicts Cognitive Decline in Cognitively Intact Older Participants. *Journal of the International Neuropsychological Society*, 18, S1. The 40th Annual Meeting of the International Neuropsychological Society, Montreal, Canada.

Butts, A. M., Nielson, K. A., Hantke, N., Lancaster, M., Seidenberg, M., Woodard, J. L., Smith, J. C., Matthews, M., Durgerian, S., Rao, S. M. (2012). FreeSurfer vs. manual tracing: Distinguishing stable from cognitively declining elders using prospectively measured hippocampal volume. *Journal of the International Neuropsychological Society*, 18, S1. The 40th Annual Meeting of the International Neuropsychological Society, Montreal, Canada.

Foster, M. K., Seidenberg, M., Woodard, J. L., Nielson, K. A., Smith, J. C., Lancaster, M. A., Matthews, M. A., Hantke, N. C., Butts, A. M., Rao, S. M. (2012). Risk factors for Alzheimer's disease

and longitudinal memory performance. *Journal of the International Neuropsychological Society*, 18, S1. The 40th Annual Meeting of the International Neuropsychological Society, Montreal, Canada.

Lancaster, M. A., Durgerian, S., Seidenberg, M., Woodard, J. L., Nielson, K. A., Smith, J. C., Matthews, M. A., Butts, A. M., Hantke, N. C., & Rao, S. M. (2012). Longitudinal White Matter Changes and Cognitive Decline in Healthy Elderly. *Journal of the International Neuropsychological Society*, 18, S1. The 40th Annual Meeting of the International Neuropsychological Society, Montreal, Canada.

Woodard, J.L., Seidenberg, M., Nielson, K.A., Sugarman, M.A., Smith, J.C., Durgerian, S., Butts, A.M., Lancaster, M.A., Foster, M.K., Hantke, N.C., Matthews, M.A., & Rao, S.M. (2012). Measures of Episodic Forgetting Complement Structural and Functional MRI for Detection of Cognitive Decline in Apolipoprotein E e4 Carriers. *Journal of the International Neuropsychological Society*, 18, S1. The 40th Annual Meeting of the International Neuropsychological Society, Montreal, Canada.

Smith, J.C., Verber, M.D., Nielson, K.A., Antuono, P., Hanson, R.J., Mattes, A.J., Butts, A.M. & Hantke, N.C. (2011). Effects of exercise on white matter integrity in amnesic mild cognitive impairment. The Annual Meeting of the Society for Neuroscience, Nov 12-16, 2011, Washington, D.C.

Smith, J.C., Verber, M.D., Nielson, K.A., Antuono, P., Hanson, R.J., Mattes, A.J., Butts, A.M. & Hantke, N.C. (2011, Sept). Walking exercise improves white matter integrity in amnesic mild cognitive impairment. The Annual Meeting of the Society for Psychophysiological Research, Sept 14-18, 2011, Boston, MA.

Browning, E.L., Shields, M.R., Tian, Q., & Smith, J.C. (2011, Sept). Neural correlates of anxiety reduction after exercise. The Annual Meeting of the Society for Psychophysiological Research, Sept 14-18, 2011, Boston, MA.

Durgerian, S., Lancaster, M.A., Seidenberg, M., Nielson, K.A., Woodard, J.L., Smith, J.C., Matthews, M., Butts, A.M., Hantke, N. & Rao, S.M. (2011, June). White matter diffusivity is higher among healthy elders at increased risk for Alzheimer's disease. The 17th Annual Meeting of the Organization for Human Brain Mapping, Québec City, Canada.

Smith, J.C. (2011, June). Multi-Modal MR Imaging. Symposium Presentation In: Exercise and the Brain - Current Approaches in Human Neurophysiology. The 58th Annual Meeting of the American College of Sports Medicine in Denver, CO.

Smith, J.C., Nielson, K.A., Antuono, P., Verber, M.D., Cogbill, E., Greene, A., Butts, A.M., Hantke, N.C., and Hanson, R.J. (2011, June). Effects of Exercise Training on fMRI Activation and Hippocampal Blood Flow in Mild Cognitive Impairment. *Medicine and Science in Sports and Exercise*, 43 (5, Suppl 1), S. The 58th Annual Meeting of the American College of Sports Medicine in Denver, CO.

Smith, J.C., Nielson, K.A., Woodard, J.L., Antuono, P., Seidenberg, M., Durgerian, S., Verber, M.D., Butts, A.M., Hantke, N.C., Lancaster, M.A. & Rao, S.M. (2011, February). Physical activity is associated with enhanced BOLD semantic memory activation in amnesic mild cognitive impairment. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA

Smith, J.C., Verber, M.D., Nielson, K.A., Antuono, P., Hanson, R.J., Mattes, A.J., Butts, A.M. & Hantke, N.C. (2011, February). Effects of walking exercise on white matter integrity in amnesic mild cognitive impairment. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA. Oral presentation.

Hantke, N., Nielson, K.A., Woodard, J.L., Durgerian, S., Seidenberg, M., Smith, J.C., Butts, A., Lancaster, M., Matthews, M. & Rao, S.M. (2011, February). Comparison of semantic and episodic

memory activation in predicting cognitive decline in older adults. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.

Butts, A.M., Nielson, K.A., Hantke, N., Lancaster, M., Durgerian, S., Woodard, J.L., Seidenberg, M., Smith, J.C., Matthews, M. & Rao, S.M. (2011, February). White matter integrity as predictor of cognitive decline in asymptomatic elders. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.

Matthews, M.A., Durgerian, S., Seidenberg, M., Nielson, K.A., Woodard, J.L., Smith, J.C., Lancaster, M.A., Butts, A.M., Hantke, N.C. & Rao, S.M. (2011, February). Cortical and subcortical volumetric differences between cognitively stable and declining older adults. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.

Sugarman, M.A., Woodard, J.L., Nielson, K.A., Smith, J.C., Seidenberg, M., Durgerian, S., Butts, A., Hantke, N., Lancaster, M., Matthews, M. & Rao, S.M. (2011, February). Prediction of future cognitive decline using brief measures of physical and cognitive activity in healthy older adults. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.

Lancaster, M.A., Durgerian, S., Seidenberg, M., Nielson, K.A., Woodard, J.L., Smith, J.C., Matthews, M., Butts, A.M., Hantke, N. & Rao, S.M. (2011, February). White matter disruption in asymptomatic individuals at risk for Alzheimer's disease. *Journal of the International Neuropsychological Society*, 17, S1. The 39th Annual Meeting of the International Neuropsychological Society, Boston, MA.

Smith, J.C., Nielson, K.A., Antuono, P., Verber, M.D., Mattes, A.J., Cogbill, E., Greene, A., Hantke, N.C., Butts, A.M., and Hanson, R.J. (2010). Effects of a walking exercise intervention on BOLD semantic memory activation and hippocampal blood flow in amnesic mild cognitive impairment. The Annual Meeting of the Society for Neuroscience in San Diego, CA.

Tian, Q., and Smith, J.C. (2010). Moderate intensity exercise enhances positive emotional bias and reduces negative emotional bias. The Annual Meeting of the Society for Neuroscience in San Diego, CA.

Smith, J. C., Paulson, E. S., Verber, M. Tian, Q., & Cook, D. B. (2010). Human cerebral blood flow increases after acute exercise: Arterial spin labeling MRI. *Medicine and Science in Sports and Exercise*, 42 (5, Suppl 1), S34. The 57th annual meeting of the American College of Sports Medicine in Baltimore, MD.

Nielson, K.A., Smith, J.C., Woodard, J.L., Seidenberg, M., Hantke, N., Butts, A., Durgerian, S., Guidotti, L., Antuono, P., & Rao, S.M. (2010, January). Contributions of physical activity and risk for Alzheimer's disease to semantic memory networks in healthy elders. Invited talk at the Dallas Aging and Cognition Conference, University of Texas, Dallas, TX, January 31, 2010.

Smith, J.C., Paulson, E.S., Verber, M., Tian, Q., and Cook, D.B. (2009). Detecting changes in human cerebral blood flow after acute exercise using arterial spin labeling. Presented at the Annual Meeting of the Society for Neuroscience in Chicago, IL.

Shields, M.R., Smith, J.C., Larson, C.L., Swartz, A.M. (2009). The effect of exercise on reaction time during a threat target detection task. Presented at the Annual Meeting of the Society for Neuroscience in Chicago, IL.

Tian, Q., Shields, M.R., Payton, J.B., Haacker, T.R., Smith, J.C. (2009). The effect of exercise on the late-positive potential evoked during affective picture viewing. Presented at the Annual Meeting of the Society for Neuroscience in Chicago, IL.

Huddleston, W.E., Tully, R.P., & Smith, J.C. (2009). Changes in neural oscillations of human parietal cortex during a visuospatial-attention task. Presented at the Annual Meeting of the Society for Neuroscience in Chicago, IL.

Smith, J.C., Nielson, K.A., Woodard, J.L., Seidenberg, M., Durgerian, S., Rao, S.M. (2009). Physical activity is associated with greater brain activation during memory in adults at risk for Alzheimer's disease. *Medicine and Science in Sports and Exercise*, 41 (5, Suppl 1), S53. Presented at the 56th Annual Meeting of the American College of Sports Medicine in Seattle, WA.

Ewalt, L., Swartz, A.M., Strath, S.J., Danduran, M.J., Moerchen, V.A., Smith, J.C. (2009). A comparison of physical activity levels between children with and without a congenital heart defect. *Medicine and Science in Sports and Exercise*, 41 (5, Suppl 1), S326. Presented at the 56th Annual Meeting of the American College of Sports Medicine in Seattle, WA.

Rao, S.M., Smith, J.C., Nielson, K.A., Woodard, J.L., Seidenberg, M., Durgerian, S., Antuono, P., Butts, A.M., Hantke, N.C., Lancaster, M.A., Schiffer, R. (2009). Physical activity is associated with enhanced semantic memory activation in older ApoE-e4 carriers. Presented at the 2nd Annual Clinical Trials on Alzheimer's Disease Conference, Las Vegas, NV.

Collins, J.D., Smith, J.C., Ebersole, K.T., and O'Connor, K.M. (2009). Effects of a simulated soccer match on cutting knee dynamics and reaction time. Presented at the 33rd Annual Meeting of the American Society of Biomechanics, State College, PA.

Keil, A., Sabatinelli, D., Smith, J.C., Wangelin, B., Bradley, M.M., & Lang, P.J. (2008). Multimodal imaging of coherent sources during affective picture viewing. *Psychophysiology*, 45 (Suppl 1), S94. Presented at the 48th Annual Meeting of the Society for Psychophysiological Research in Austin, TX.

Shields, M., Tian, Q., Payton, J., & Smith, J.C. (2008). The effect of exercise on the late-positive potential evoked during affective picture viewing. *Psychophysiology*, 45 (Suppl 1), S50. Presented at the 48th Annual Meeting of the Society for Psychophysiological Research in Austin, TX.

Smith, J.C., Zalewski, K.A., Motl, R.W., O'Connell, D.L., Malzahn, J. (2008). Self-Efficacy and Physical Activity Behavior Among Elders in an Assisted Living Environment. *Medicine and Science in Sports and Exercise*, 40 (5, Suppl 1), S468. Presented at the 55th Annual Meeting of the American College of Sports Medicine in Indianapolis, IN.

Smith, J.C., Bradley, M.M., & Lang, P.J. (2007). Negative affect and the reflex physiology of emotion. *Psychophysiology*, 44 (Suppl. 1), S82. Presented at the 47th Annual Meeting of the Society for Psychophysiological Research in Savannah, GA.

Smith, J.C., McTeague, L.M., Löw, A., Laplante, M.C., Perlman, G., Strauss, C., Bradley, M.M., & Lang, P. J. (2006). Processing rapidly presented affective pictures: Reflex physiology among anxiety disorder patients. *Psychophysiology*, 43 (Suppl. 1), S93. Presented at the 46th Annual Meeting of the Society for Psychophysiological Research in Vancouver, BC, Canada.

Smith, J.C., Bradley, M.M., & Lang, P.J. (2006). Physical activity, negative affect, and the reflex physiology of emotion. *Medicine and Science in Sports and Exercise*, 38 (Suppl 1), S91. Presented during a Featured Science Session (J.C Smith, chair) at the 53st Annual Meeting of the American College of Sports Medicine in Denver, CO.

Smith, J.C., Keil, A., Wangelin, B., Bradley, M.M., Sabatinelli, D., & Lang, P.J. (2005) Single trial analysis of steady-state visual evoked potentials: Effects of emotional arousal. *Psychophysiology*, 42 (Suppl. 1), S73. Presented at the 45th Annual Meeting of the Society for Psychophysiological Research in Lisbon, Portugal.

Keil, A., Smith, J.C., Wangelin, B., Sabatinelli, D., Bradley, M.M., & Lang, P.J. (2005). Source space analysis of single EEG epoch in the frequency domain: An application for steady-state potentials. *Psychophysiology*, 42 (Suppl. 1), S116. Presented at the 45th Annual Meeting of the Society for Psychophysiological Research in Lisbon, Portugal.

Smith, J.C., Löw, A., Laplante, M.C., Perlman, G., Strauss, C., Bradley, M.M., & Lang, P.J. (2004). Emotional reactivity of anxiety disorder patients during rapid serial presentation of affective pictures. *Psychophysiology*, 41 (Suppl. 1), S56. Presented at the 44th Annual Meeting of the Society for Psychophysiological Research in Santa Fe, NM.

Löw, A., Lang, P.J., Smith, J.C., & Bradley, M.M. (2004). The Defense Cascade - animal model & human performance. *Psychophysiology*, 41 (Suppl. 1), S56. Presented at the 44th Annual Meeting of the Society for Psychophysiological Research in Santa Fe, NM.

Smith, J.C., Bradley, M.B., & Lang, P.J. (2004). Sustained exposure to emotional pictures: effects of mood state. Symposium presented at the 38th Annual Meeting of the Association for the Advancement of Behavior Therapy in New Orleans, LA.

Smith, J.C. (2004). Psychophysiology of Emotional Processing: The Influence of Individual Differences. Invited Discussant for Symposium presented at the 38th Annual Meeting of the Association for the Advancement of Behavior Therapy in New Orleans, LA.

Smith, J.C., Bradley, M. M., & Lang, P.J. The psychophysiology of emotion: Effects of physical activity history and negative affect. *Medicine and Science in Sports and Exercise*, 36, S91. Presented at the 51st Annual Meeting of the American College of Sports Medicine in Indianapolis, IN.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. The influence of physical activity and negative affect on the startle response during affective picture viewing. *Psychophysiology*, 40 (Suppl. 1), S81. Presented at the 43rd Annual Meeting of the Society for Psychophysiological Research in Chicago, IL.

Smith, J.C., Löw, A., Bradley, M.M., & Lang, P.J. Rapid serial presentation of affective pictures elicits emotional reactions. *Psychophysiology*, 40 (Suppl. 1), S81. Presented at the 43rd Annual Meeting of the Society for Psychophysiological Research in Chicago, IL.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. Physical activity promotes normal emotional reactivity among individuals with high negative affect. Presented at The Cooper Institute Conference Series "Physical Activity and Mental Health: A Multidisciplinary Approach", October, 2003 in Dallas, TX.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. Reflex Physiology of Emotion: Effects of Negative Affect and Physical Activity History. Presented at the 2003 Annual Meeting of the Association for the Advancement of Behavioral Therapy in Boston, MA.

Smith, J.C., Löw, A., Bradley, M.M., & Lang, P.J. Rapid serial presentation of affective pictures elicits emotional reactions. Presented at the III Conferência Internacional "Emoções e Cérebro", Lisbon, Portugal, 2003.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. Physical activity promotes normal emotional reactivity among individuals with high negative affect. Presented at the III Conferência Internacional "Emoções e Cérebro", Lisbon, Portugal, 2003.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. (2002). One thing after another: The progression and persistence of affect. *Psychophysiology*, 39 (Suppl. 1), S77. Presented at the 2002 Annual Meeting of the Society for Psychophysiological Research in Washington, D.C.

Smith, J.C., Scott, R.P., Bradley, M.M., & Lang, P.J. (2001). Affective reflex modulation: Progression and persistence. *Psychophysiology*, 38 (Suppl. 1), S90. Presented at the 2001 Annual Meeting of the Society for Psychophysiological Research in Montreal, Canada.

Smith, J.C. & O'Connor, P.J. (2001). Exercise and emotion: Startle and corrugator responses during exercise and seated rest. *Psychophysiology*, 38 (Suppl. 1), S90. Presented at the 2001 Annual Meeting of the Society for Psychophysiological Research in Montreal, Canada.

Smith, J.C., O'Connor, P.J., and Dishman, R.K. (2000). Exercise and emotion: Corrugator supercillii EMG activity at baseline and in response to emotion-eliciting slides after exercise and seated rest. *Medicine and Science in Sports and Exercise*, 32, S294. Presented at the 2000 Annual Meeting of the American College of Sports Medicine in Indianapolis, IN.

Smith, J.C., O'Connor, P.J., and Dishman, R.K. Exercise and emotion: Corrugator supercillii EMG activity at baseline and in response to emotion-eliciting slides after exercise and seated rest. Presented at the 2000 Annual Meeting of the Society for Psychophysiological Research in San Diego, CA.

Smith, J.C., Crabbe, J.B., O'Connor, P.J., and Dishman, R.K. (1999). Exercise and emotion: Acoustic startle eyeblink response amplitude is attenuated after low and moderate intensity exercise and quiet rest. *Medicine and Science in Sports and Exercise*, 31, S173. Presented at the 1999 Annual Meeting of the American College of Sports Medicine in Seattle, WA.

Crabbe, J.B., Smith, J.C., and Dishman, R.K. (1999). EEG and emotional response after cycling exercise. *Medicine and Science in Sports and Exercise*, 31, S173. Presented at the 1999 Annual Meeting of the American College of Sports Medicine in Seattle, WA.

O'Connor, P.J., Smith, J.C., Cook, D.B., and Agrawal, S.K. Circadian rhythms in highly physically active and fit elderly men compared to normal elderly controls. Presented at the 1998 Annual Meeting of the Society for Research on Biological Rhythms on Amelia Island, FL.

Smith, J.C., Cook, D.B., Agrawal, S.K., and O'Connor, P.J. (1997). Circadian pacemaker evoked changes in blood pressure and heart rate in fit elderly men. *Medicine and Science in Sports and Exercise*, 29, S141. Presented at the 1997 Annual Meeting of the American College of Sports Medicine in Denver, CO.

Smith, J.C., Cook, D.B., and O'Connor, P.J. (1996). Pain, perceived exertion and personality during brief maximal forearm contractions in women. *Medicine and Science in Sports and Exercise*, 28, S57. Presented at the 1996 Annual Meeting of the American College of Sports Medicine in Cincinnati, OH.

O'Connor, P.J., Cook, D.B., and Smith, J.C. Relationships between pain, personality and performance during maximal cycle ergometry. Presented at the 1995 Annual Meeting of the American Psychological Association in New York, NY.

Breus, M., O'Connor, P.J., Smith, J.C., and Crabbe, J.B. Influence of strenuous nocturnal exercise on sleep. Presented at the 1994 Annual Meeting of the American Psychological Association in New York, NY.

Smith, J.C. and Homa, D. Recognition and classification of schematic faces under conditions of zero and substantial category training. Presented at the 1993 Annual Meeting of the Western Psychological Association in Phoenix, AZ.

Smith, J.C. and Homa, D. Recognition and classification in category abstraction. Presented at the 1991 Annual Meeting of the Western Psychological Association in San Francisco, CA.

Invited Presentations

2007

University of Illinois at Urbana-Champaign, Department of Kinesiology
Title: Exercise and the Emotional Brain

Marquette University, Integrative Neuroscience Program
Title: Exercise, Negative Affect, and Emotion

2008

Advanced Dementia Care Workshop at Waukesha County Technical College, in collaboration with the Alzheimer's Association, Southeastern Wisconsin Chapter.

Title: Physical activity and dementia care: Current knowledge and knowledge gaps

2009

23rd Annual State Conference of Alzheimer's Disease and Related Disorders, Stevens Point, WI
Title: The potential role of physical activity in the prevention and treatment of Alzheimer's disease

Medical College of Wisconsin Epidemiology Graduate Seminar

Title: Does exercise improve brain function in people at risk for Alzheimer's disease?

Video at <http://www.mcw.edu/FileLibrary/Groups/Epidemiology/videos/Seminar10109.swf>

2010

Medical College of Wisconsin, Division of Geriatrics and Gerontology Faculty Seminar Series
Title: The role of physical activity in the prevention and treatment of age-related cognitive decline

Medical College of Wisconsin and the Veterans Administration, Department of Physical Medicine and Rehabilitation, Resident Didactic Series: Geriatric Rehabilitation

Title: Physical activity and the prevention and treatment of memory loss

Medical College of Wisconsin, Imaging Research Center

Title: Effects of exercise on brain function in older adults at risk for Alzheimer's disease

Wisconsin Alzheimer's Disease Research Center Seminar Series, UW-Madison

Title: Effects of Exercise on Brain Function in Older Adults at Risk for Alzheimer's Disease

Center for BrainHealth, University of Texas-Dallas

Title: Exercise and Brain Health

2011

24th Annual State Conference of Alzheimer's Disease and Related Disorders, Wisconsin Dells, WI
Title: The potential role of physical activity in the prevention and treatment of Alzheimer's disease

Wisconsin Alzheimer's Disease Research Center, Alzheimer's Disease: Annual Update Continuing Medical Education Program. November 4, 2011, Madison, WI.

Wisconsin Alzheimer's Institute, Early Memory Loss Summit, April 12, 2011, Milwaukee, WI.

University of Maryland School of Medicine and the Baltimore Veterans Administration.

Media Coverage

WUWM Radio, interview with Dr. Tom Luljak, aired February 25, 2010, "Exercise in relation to Alzheimer's". Listen at: http://www.wuwm.com/programs/uwm_today/view_uwmt.php?articleid=223

WUWM Radio, interview with Mitch Tiech on "Lake Effect", aired August 16, 2010. "Exercise and Memory Loss". Listen at: http://www.wuwm.com/programs/lake_effect/view_le.php?articleid=1042

FOX6NEWS Morning Wake-Up, invited live television interview September 10, 2010, along with guest Bonnie Blair to promote the Alzheimer's Association Memory Walk and the effects of exercise on brain health. See at: <http://www.fox6now.com/videobeta/68f3e12b-f072-4c09-a1d1a7c12876539c/Community/Alzheimers-Memory-Walk>

Press release, UW-Milwaukee, http://www.eurekaalert.org/pub_releases/2010-11/uow--ssi111810.php
Published globally by over 100 websites.

Runner's World magazine. November, 2011 issue, p. 50.

Teaching

Courses Taught – Prior to Fall 2011

Introduction to Kinesiology (HMS 200) – undergraduate, 4 semesters

Undergraduate Research Opportunity Program: Topic- The Neuroscience of Exercise (HMS 296)

Psychological Aspects of Physical Activity (HMS 550) – undergraduate and graduate, 3 semesters

Exercise Psychology (HMS 555) – undergraduate and graduate, 4 semesters

Survey of Research in the Human Movement Sciences (HMS 703) – graduate, 3 semesters

- note: this course involves mentoring M.S. Kinesiology students, with their primary advisor, through an intensive preparation of their masters thesis proposal, including oral defense.

Exercise Neuroscience (HMS 855/590) – graduate, 1 semester

Health Psychology (team taught at University of Florida) – undergraduate, 1 semester

Courses Taught – University of Maryland

The Psychology of Sports (KNES 350), Spring 2012 – undergraduate (119 enrolled)

Student Mentoring

Master's Students

Morgan R. Shields, MS Kinesiology thesis student, graduated Summer 2009 – **Primary Advisor.**

Qu Tian, MS Kinesiology thesis student, graduated Spring 2010 – **Primary Advisor.**

Karlee Sweere, MS Kinesiology student, graduated Spring 2010 – **Secondary Advisor.**

Katrina Serwe, MS Kinesiology thesis student, graduated Spring 2008 – **Secondary Advisor.**

Lauren Ewalt, MS Kinesiology thesis student, graduated Spring 2008 – **Secondary Advisor.**

Sarah Parker, MS Kinesiology thesis student, graduated Spring 2007 – **Committee Member**

Doctoral Students

Elizabeth Grimm, UWM, Health Sciences Ph.D. – Committee Member

Lauren Taubitz, UWM, Clinical Psychology PhD, Committee Member

Jordan Robinson, UWM, Clinical Psychology PhD student, Committee Member

Melissa Lancaster, Rosalind Franklin University, Clinical Psychology PhD, Committee Member

Alissa Butts, Marquette University, Clinical Psychology PhD, Committee Member

Undergraduate Students (Significant Contributions as Laboratory Research Assistants)

Timothy R. Haacker, Student Undergraduate Research Fellowship Award, Summer 2008, 2008-2009.

- Currently in DPT program at the University of Utah.

Jennifer B. Payton, Student Undergraduate Research Fellowship Award, Spring 2009, 2007-2009.

- Currently in DPT program at the University of Wisconsin-Milwaukee.

Nicholas Jones, Student Undergraduate Research Fellow, 2008-2010.

Jollyn Tyryfter, Student Undergraduate Research Fellow, 2009-2010.

- Currently seeking admission to Neuroscience PhD programs.

Erin Browning, Student Undergraduate Research Fellow, 2009-2011.

Kaila Balling, Student Undergraduate Research Fellow, 2010-2011.

Phoenix Logan, Student Undergraduate Research Fellow, 2010-2011.

Nicole Hatt, Student Undergraduate Research Fellow, 2010-2011.

Bethany Brooks, Undergraduate Research Assistant, 2010-2011.

Undergraduate Student Research Presentations

Jennifer Payton, "Reaction Time and Event-Related Potentials During Affective Picture Viewing After Exercise Compared to Rest", National Conference on Undergraduate Research, UW-LaCrosse, April 16-18, 2009.

Timothy Haacker, "The Relation Between Changes in Mood After Exercise and Event-Related Potentials During Affective Picture Viewing, National Conference on Undergraduate Research, UW-LaCrosse, April 16-18, 2009.

Erin Browning, "The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge", National Conference on Undergraduate Research in Ithaca, NY, March 31 - April 2, 2011.

Phoenix Logan, Nicole Hatt, and Kaila Balling, ""Exercise Effects on Bias Towards Emotional Stimuli", National Conference on Undergraduate Research in Ithaca, NY, March 31 - April 2, 2011.

Erin Browning, "The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge", selected to represent UWM at the 8th Annual Posters in the Rotunda: A Celebration of Undergraduate Research, Wisconsin State Capital, Madison, WI, April 6, 2011.

Phoenix Logan, Nicole Hatt, Kaila Balling, & Erin Browning, "Exercise Effects on Bias Towards Emotional Stimuli", selected to represent UWM at the 8th Annual Posters in the Rotunda: A Celebration of Undergraduate Research, Wisconsin State Capital, Madison, WI, April 6, 2011.

Erin Browning, "The Anxiolytic Effects of Exercise are Sustained after an Emotional Challenge", UW-System Symposium at UW-Parkside on April 29, 2011.

Phoenix Logan, Nicole Hatt, and Kaila Balling, ""Exercise Effects on Bias Towards Emotional Stimuli", UW-System Symposium at UW-Parkside on April 29, 2011.

Academic Service

University of Wisconsin-Milwaukee

Member, Graduate Faculty Committee, Dept. of Human Movement Sciences, 2005-2010
Member, Black & Gold Committee, College of Health Sciences, 2005-2006.
Member, Facilities Committee, Dept. of Human Movement Sciences, 2006-2008.
Member, Transitional DPT Admissions Committee, Dept. of Human Movement Sciences, 2006-2007.
Member, Course and Curriculum Committee, Dept. of Human Movement Sciences, 2006-2007.
Member, Search and Screen Committee, Tenure-Track Cardiopulmonary Physical Therapy, 2007.
Member, Search and Screen Committees, Two Teaching Academic Staff positions, 2008.
Member, Travel Committee, Dept. of Human Movement Sciences, 2008.
Chair, Travel Committee, Dept. of Human Movement Sciences, 2009-2010.
Chair, Ad Hoc Committee Exercise Physiol Lab Space, Dept. of Human Movement Sci, 2007-2008.
Member, Doctoral Faculty Committee, College of Health Sciences, 2007-2011.
Member, Research and Graduate Program Committee, College of Health Sciences, 2008-2010.
Member, Faculty Senate, UW-Milwaukee, 2011.

University of Maryland

Member, Graduate Committee, University of Maryland, Department of Kinesiology, 2011-
Member, GRIP Committee, University of Maryland, Department of Kinesiology, 2011-
Member, Undergraduate Honors Program Committee, UMD, Department of Kinesiology, 2011-
Member, Banneker-Key Selection Committee, University of Maryland Honors College, 2012

Research Service

Member, Strategic Health Initiative on Aging Committee, The American College of Sports Medicine, 2011-present

Section Editor, *Ageing Research*, 2011-present

Chair, Featured Science Session, "The Psychophysiology of Emotion: Applications to Physical Activity", at the 53st Annual Meeting of the American College of Sports Medicine in Denver, CO, 2006.

Chair, Free Communication Session, "Physical Activity and Mental Health", at the 53st Annual Meeting of the American College of Sports Medicine in Denver, CO, 2006.

Chair, Free Communication Session, "Neuromuscular Disorders", at the 57th Annual Meeting of the American College of Sports Medicine in Baltimore, MD, 2010.

Grant Reviewer

NIH Directors Early Independence Award (DP5), 2011

Agence Nationale de la Recherche, France, 2011

Alzheimer's Association, 2011

University of Kansas Medical Center, 2012

Manuscript Reviewer

Ageing Research
Alzheimer's & Dementia

Biological Psychology
British Journal of Sports Medicine
Cognition & Emotion
International Journal of Psychophysiology
International Journal of Sport & Exercise Psychology
International Journal of Sports Medicine
Journal of Abnormal Psychology
Journal of Alzheimer's Disease
Journal of Applied Gerontology
Journal of Applied Physiology
Journal of General Psychology
Journal of Neuroscience
Journal of Psychophysiology
Journal of Sport & Exercise Psychology
Medicine & Science in Sports & Exercise
Neuropsychology (2011 – recognition from Editor-In-Chief as Principal Reviewer)
Pediatric Exercise Science
Psychiatry Research: Neuroimaging
Psychophysiology
Psychosomatic Medicine
Research Quarterly for Sport and Exercise
Spanish Journal of Psychology

Professional Memberships

Fellow, American College of Sports Medicine
Society for Psychophysiological Research
Society for Neuroscience
Association for Psychological Science