

Curriculum Vita

KARLENE K. BALL

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EDUCATION

Indiana University, B.A., May 1974, Psychology, Summa Cum Laude

Northwestern University, M.S., August 1977, Psychology

Northwestern University, Ph.D., June 1979, Psychology

Northwestern University, Post-Doc, 1979-1984, Psychology

EMPLOYMENT

June 2014 – Present	Associate Director , Center for Outcomes and Effectiveness Research and Education (COERE), UAB
November 2013 – Present	Senior Scientist , Comprehensive Neuroscience Center, School of Medicine Dean's Office, UAB
April 2012 – Present	Endowed Chair of Developmental Psychology , Psychology Department, College of Arts and Sciences, UAB
April 2011 – Present	Senior Scientist , Center for Exercise Medicine, Academic Joint Departments, UAB
July 2010 – Present	Professor , Neurobiology Department, UAB
February 2009 – Present	Chair , Psychology Department; College of Arts and Sciences, UAB
February, 2009 – Present	University Professor , Psychology Department; College of Arts and Sciences, UAB
Dec. 2008 – Feb. 2009	Interim Chair , Psychology Department, College of Arts and Sciences, UAB
May 1999 – Present	Senior Scientist , Center for Outcomes & Effectiveness Research and Education, School of Medicine Dean's Office, UAB

July 1996 – Present	Senior Scientist , Vision Science Research Center, School of Optometry Dean’s Office, UAB
May, 1996 – Present	Professor , Psychology Department; College of Arts and Sciences, UAB
May, 1996 – Present	Associate Director , Comprehensive Center for Health Aging (formerly the Center for Aging)
Sept. 1993-Present	Director , Roybal Center for Research on Applied Gerontology
July, 1990 - April, 1996	Professor , Psychology Department; Western Kentucky University
Aug. 1986 - June 1990	Associate Professor , Psychology Department; WKU
Aug. 1984 - Aug. 1986	Assistant Professor , Psychology Department; WKU
Aug. 1981 - Aug. 1984	Assistant Professor , Psychology Department; Trinity College
June 1979 - Aug. 1984	Post-doctoral fellowship: Dr. Robert Sekuler; Northwestern University
Sept. 1977 - June 1979	Research Assistant for Dr. Robert Sekuler; Northwestern University
June 1978 - June 1979	NIMH pre-doctoral training grant ; Northwestern University
Sept. 1977 - June 1978	Research Assistant ; Dr. Lois Elliott, Audiology Department
Sept. 1977 - June 1978	Department Teaching Assistant ; Northwestern University
Sept. 1974 – June 1975	Administrative Assistant , Psychology Department; Indiana University

HONORS

Ireland Award for Scholarly Distinction, 2008
 Fellow, American Psychological Association, Applied Experimental Psychology 1996
 Nationwide Insurance Highway Safety Award, 1996
 M.E.R.I.T. award from National Institute on Aging, 1994
 University award for Research/Creativity, 1994
 College award for Research/Creativity, 1994
 College award for Research/Creativity, 1989
 Phi Beta Kappa, 1974

FEDERAL GOVERNMENT PUBLIC ADVISORY COMMITTEES AND NATIONAL OFFICES

Chair, Transportation Review Board on Safe Mobility of Older Persons, ANB60 (2006 - 2012)
 Member of the Transportation Research Board/National Research Council, 1992-2012

Committee on Safety and Mobility of Older Persons
Subcommittee on Basic Research Needs for Older Drivers

NIH Distinguished Editor's Panel (July 2009)

Chair, Human Factors Technical Group on Aging, 1992-1993

Expert Panelist - Setting Commercial Driver Vision Standards

NIH Ad Hoc Reviews For HUD-2, VISB, SBIR, and Site Visit Reviews

Reviewer for Kentucky EpScore Programs (NSF and NIH)

NSF Ad Hoc *Reviewer*

National Academy of Sciences - Committee to study redesign of currency in U.S.

NIH Study Section - HUD2 (Human Development and Aging)

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Sekuler, R., & **Ball, K.** (1979). Mental set alters visibility of moving targets. *Science*, *198*, 60-62. doi:10.1126/science.897682
2. **Ball, K.**, & Sekuler, R. (1979). Masking of motion by broadband and filtered directional noise. *Perception & Psychophysics*, *26*(3), 206-214.
3. **Ball, K.**, & Sekuler, R. (1980). Human vision favors centrifugal motion. *Perception*, *9*(3), 317-325. doi:10.1068/p090317
4. **Ball, K.**, & Sekuler, R. (1980). Models of Stimulus Uncertainty in Motion Perception. *Psychological Review*, *87*(5), 435-469.
5. **Ball, K.**, & Sekuler, R. (1981). Adaptive processing of visual motion. *Journal of Experimental Psychology: Human Perception and Performance*, *7*, 780-794.
6. **Ball, K.**, & Sekuler, R. (1981). Cues reduce direction uncertainty and enhance motion detection. *Perception & Psychophysics*, *30*(2), 119-128.
7. **Ball, K.**, & Sekuler, R. (1982). A Specific and Enduring Improvement in Visual Motion Discrimination. *Science*, *218*(4573), 697-698. doi:10.1126/science.7134968
8. **Ball, K.**, Sekuler, R., & Machamer, J. (1983). Detection and identification of moving targets. *Vision Research*, *23*, 229-238.
9. **Ball, K.**, & Sekuler, R. (1986). Improving Visual Perception in Older Observers. *Journal of Gerontology*, *41*(2), 176-182.
10. Sekuler, R., & **Ball, K.** (1986). Visual localization: age and practice. *Journal of the Optical Society of America A*, *3*(6), 864-867.
11. **Ball, K.**, & Sekuler, R. (1987). Direction-specific improvement in motion discrimination. *Vision Research*, *27*(6), 953-965. doi:10.1016/0042-6989(87)90011-3
12. **Ball, K. K.**, Beard, B. L., Roenker, D. L., Miller, R. L., & Griggs, D. S. (1988). Age and visual search: expanding the useful field of view. *Journal of the Optical Society of America A*, *5*, 2210-2219.

13. **Ball, K.**, Owsley, C., & Beard, B. (1990). Clinical visual perimetry underestimates peripheral field problems in older adults. *Clinical Vision Sciences*, *5*(2), 113-125.
14. **Ball, K. K.**, Roenker, D. L., & Bruni, J. (1990). Developmental changes in attention and visual search throughout adulthood. *JTEMS*, 489-508.
15. Owsley, C., **Ball, K.**, Sloane, M. E., Roenker, D. L., & Bruni, J. R. (1991). Visual/Cognitive Correlates of Vehicle Accidents in Older Drivers. *Psychology and Aging*, *6*, 403-415.
16. **Ball, K.**, & Owsley, C. (1991). Identifying Correlates of Accident Involvement for the Older Driver. *Human Factors*, *33*, 583-595.
17. Owsley, C., **Ball, K.**, & Sloane, M. (1992). Visual attention problems predict vehicle crash involvement in older adults. *Perception*, *21*, 20.
18. Sloane, M. E., **Ball, K.**, Owsley, C., Bruin, J. R., & Roenker, D. L. (1992). Noninvasive Assessment of the Visual System. *Technical Digest Series*, *1*, 26-29.
19. Sloane, M. E., **Ball, K.**, Owsley, C., Bruni, J. R., & Roenker, D. L. (1992). The Visual Activities Questionnaire: developing an instrument for assessing problems in everyday visual tasks. *Technical Digest, Noninvasive Assessment of the Visual System*, *1*, 26-29.
20. Owsley, C., & **Ball, K.** (1993). Assessing visual function in the older driver. *Clinics in Geriatric Medicine*, *9*(2), 389-401. PMID:8504387
21. **Ball, K.**, & Owsley, C. (1993). The Useful Field of View Test: a new technique for evaluating age-related declines in visual function. *Journal of the American Optometric Association*, *64*(1), 71-79. PMID: 8454831
22. **Ball, K.**, Owsley, C., Sloane, M. E., Roenker, D. L., & Bruni, J. R. (1993). Visual Attention Problems as a Predictor of Vehicle Crashes in Older Drivers. *Investigative Ophthalmology & Visual Science*, *34*(11), 3110-3123.
23. **Ball, K.**, & Rebok, G. (1994). Evaluating the Driving Ability of Older Adults. *The Journal of Applied Gerontology*, *13*(1), 20-38.
24. Owsley, C., **Ball, K.**, & Keeton, D. M. (1995). Relationship between visual sensitivity and target localization in older adults. *Vision Res.*, *35*(4), 579-587. doi:10.1016/0042-6989(94)00166-J.
25. Lundberg, C., Johansson, K., **Ball, K.**, Bjerre, B., Blomquist, C., Braekhus, A., . . . Winblad, B. (1997). Dementia and Driving: An Attempt at Consensus. *Alzheimer Disease and Associated Disorders*, *11*(1), 28-37.
26. **Ball, K.** (1997). Attentional problems and older drivers. *Alzheimer Disease and Associated Disorders*, *11*(S1), 42-47.
27. Duchek, J. M., Hunt, L., **Ball, K.**, Buckles, V., & Morris, J. C. (1997). The Role of Selective Attention in Driving and Dementia of the Alzheimer Type. *Alzheimer Disease and Associated Disorders*, *11*(S1), 48-56.
28. Duchek, J. M., Hunt, L., **Ball, K.**, Buckles, V., & Morris, J. C. (1998). Attention and Driving Performance in Alzheimer's Disease. *Journal of Gerontology: Psychological Sciences*, *53B*(2), P130-P141.
29. Sims, R. V., Owsley, C., Allman, R. M., **Ball, K.**, & Smoot, T. M. (1998). A preliminary assessment of the medical and functional factors associated with vehicle crashes by older adults. *Journal of the American Geriatrics Society*, *46*(5), 556-561.
30. Owsley, C., **Ball, K.**, McGwin Jr., G., Sloane, M. E., Roenker, D. L., White, M. F., & Overley, E. T. (1998). Visual Processing Impairment and Risk of Motor Vehicle Crash Among Older Adults.

Journal of the American Medical Association, 279(14), 1083-1088.
doi:10.1001/jama.279.14.1083.

31. **Ball, K.**, Owsley, C., Stalvey, B., Roenker, D. L., Sloane, M. E., & Graves, M. (1998). Driving avoidance and functional impairment in older drivers. *Accident Analysis and Prevention*, 30(3), 313-322. doi:10/1016/S0001-4575(97)00102-4
32. Goode, K. T., **Ball, K. K.**, Sloane, M., Roenker, D. L., Roth, D. L., Myers, R. S., & Owsley, C. (1998). Useful Field of View and Other Neurocognitive Indicators of Crash Risk in Older Adults. *Journal of Clinical Psychology in Medical Settings*, 5(4), 425- 440.
33. McGwin Jr., G., Owsley, C., & **Ball, K.** (1998). Identifying crash involvement among older drivers: agreement between self-report and state-records. *Accident Analysis and Prevention*, 30(6), 781-791.
34. Owsley, C., McGwin Jr., G., & **Ball, K.** (1998). Vision impairment, eye disease, and injurious motor vehicle crashes in the elderly. *Ophthalmic Epidemiology*, 5(2), 101-113.
35. Stalvey, B., Owsley, C., Sloane, M. E., & **Ball, K.** (1999). The Life Space Questionnaire: A Measure of the Extent of Mobility of Older Adults. *The Journal of Applied Gerontology*, 18(4), 460-478.
36. Sims, R. V., McGwin Jr., G., Allman, R. M., **Ball, K.**, & Owsley, C. (2000). Exploratory Study of Incident Vehicle Crashes Among Older Drivers. *Journal of Gerontology: Medical Sciences*, 55A(1), M22-M27.
37. Myers, R. S., **Ball, K.**, Kalina, T. D., Roth, D. L., & Goode, K. T. (2000). Relation of Useful Field of View and Other Screening Tests to On-Road Driving Performance. *Perceptual and Motor Skills*, 91(1), 279-290. doi:10.2466/pms.2000.91.1.279 PMID: 11011899 [PubMed – indexed for MEDLINE]
38. Rizzo, M., Anderson, S. W., Dawson, J., Myers, R., & **Ball, K.** (2000). Visual attention impairments in Alzheimer's disease. *Neurology*, 54(10), 1954-1959. PMID: 10822436 [PubMed – indexed for MEDLINE]
39. Jobe, J. B., Smith, D. M., **Ball, K.**, Tennstedt, S. L., Marsiske, M., Willis, S. L., . . . Kleinman, K. (2001). ACTIVE: A Cognitive Intervention Trial to Promote Independence in Older Adults. *Controlled Clinical Trials*, 22(4), 453-479. PMCID: PMC2916177
40. **Ball, K.**, Wadley, V. G., & Edwards, J. D. (2002). Advances in Technology Used to Assess and Retrain Older Drivers. *Gerontechnology*, 1(4), 251-261.
41. Edwards, J. D., Wadley, V. G., Myers, R. S., Roenker, D. L., Cissell, G. M., & **Ball, K.** (2002). Transfer of a speed of processing intervention to near and far cognitive functions. *Gerontology*, 48(5), 329-340. PMID: 12169801 [PubMed – indexed for MEDLINE]
42. Owsley, C., Sloane, M., McGwin Jr., G., & **Ball, K.** (2002). Timed instrumental activities of daily living tasks: relationship to cognitive function and everyday performance assessments in older adults. *Gerontology*, 48(4), 254-265. PMID: 12053117 [PubMed – indexed for MEDLINE]
43. **Ball, K.**, Berch, D. B., Helmers, K. F., Jobe, J. B., Leveck, M. D., Marsiske, M., . . . Willis, S. L., for the ACTIVE Study Group. (2002). Effects of Cognitive Training Interventions With Older Adults: A Randomized Controlled Trial. *Journal of the American Medical Association*, 288(18), 2271-2281. PMCID: PMC2916176
44. **Ball, K.** (2003). Real-world evaluation of visual function. *Ophthalmology Clinics of North America*, 16(2), 289-298. PMID: 12809164 [PubMed – indexed for MEDLINE]
45. **Ball, K.**, Wadley, V., & Roenker, D. (2003). Obstacles to implementing research outcomes in community settings. *Gerontologist*, 43(S1), 29-36. PMID: 12637687 [PubMed – indexed for

MEDLINE]

46. Roenker, D. L., Cissell, G. M., **Ball, K. K.**, Wadley, V. G., & Edwards, J. D. (2003). Speed-of-Processing and Driving Simulator Training Result in Improved Driving Performance. *Human Factors*, *45*(2), 218-233. PMID: 14529195 [PubMed – indexed for MEDLINE]
47. **Ball, K.**, & Owsley, C. (2003). Driving competence: it's not a matter of age. *Journal of the American Geriatrics Society*, *51*(10), 1499-1501. PMID: 14511177 [PubMed – indexed for MEDLINE]
48. Roth, D. L., Goode, K. T., Clay, O. J., & **Ball, K. K.** (2003). Association of Physical Activity and Visual Attention in Older Adults. *Journal of Aging and Health*, *15*(3), 534-547. doi:10.1177/0898264303253512. PMID: 12914019 [PubMed – indexed for MEDLINE]
49. Edwards, J. D., Walley, A. C., & **Ball, K. K.** (2003). Phonological, visual and temporal processing in adults with and without reading disability. *Reading and Writing: An Interdisciplinary Journal*, *16*, 737-758.
50. Mark, V. M., Woods, A. J., **Ball, K.**, Roth, D. L., & Mennemeier, M. (2004). Disorganized search on cancellation is not a consequence of neglect. *Neurology*, *63*, 78-84. PMID:15249614 [PubMed – indexed for MEDLINE]
51. Clay, O. J., Wadley, V. G., Edwards, J. D., Roth, D. L., Roenker, D. L., & **Ball, K. K.** (2005). Cumulative meta-analysis of the relationship between useful field of view and driving performance in older adults: current and future implications. *Optometry and Vision Science*, *82*(8), 724-731. PMID: 16127338 [PubMed – indexed for MEDLINE]
52. Edwards, J. D., Vance, D.E., Wadley, V.G., Cissell, G.M., Roenker, D.L., & **Ball, K.** (2005). Reliability and validity of Useful Field of View test scores as administered by personal computer. *Journal of Clinical Experimental Neuropsychology*, *27*, 529-543. PMID: 16019630
53. Wood, K. M., Edwards, J. D., Clay, O. J., Wadley, V. G., Roenker, D. L., & **Ball, K. K.** (2005). Sensory and Cognitive Factors Influencing Functional Ability in Older Adults. *Gerontology*, *51*, 131-141. doi:10.1159/000082199. PMID: 15711081 [PubMed – indexed for MEDLINE]
54. Edwards, J. D., Wadley, V. G., Vance, D. E., Wood, K., Roenker, D. L., & **Ball, K. K.** (2005). The impact of speed of processing training on cognitive and everyday performance. *Aging & Mental Health*, *9*(3), 262-271. doi:10.1080/13607860412331336788 PMID: 19491362 [PubMed – indexed for MEDLINE]
55. Vance, D. E., Wadley, V. G., **Ball, K. K.**, Roenker, D. L., & Rizzo, M. (2005). The Effects of Physical Activity and Sedentary Behavior on Cognitive Health in Older Adults. *Journal of Aging and Physical Activity*, *13*, 294-313. PMID: 16192657 [PubMed – indexed for MEDLINE]
56. **Ball, K. K.**, Roenker, D. L., Wadley, V. G., Edwards, J. D., Roth, D. L., McGwin Jr., G., . . . Dube, T. (2006). Can high-risk older drivers be identified through performance-based measures in a Department of Motor Vehicles setting? *Journal of the American Geriatrics Society*, *54*(1), 77-84. PMID: 16420201 [PubMed – indexed for MEDLINE]
57. Vance, D. E., Roenker, D. L., Cissell, G. M., Edwards, J. D., Wadley, V. G., & **Ball K. K.** (2006). Predictors of driving exposure and avoidance in a field study of older drivers from the state of Maryland. *Accident Analysis and Prevention*, *38*(4), 823-831. PMID: 16545765 [PubMed – indexed for MEDLINE]
58. Okonkwo, O. C., Wadley, V. G., Griffith, H. R., **Ball, K.**, & Marson, D. C. (2006). Cognitive correlates of financial abilities in mild cognitive impairment. *Journal of the American Geriatrics Society*, *54*(11), 1745-1750. PMID: 17087703 [PubMed – indexed for MEDLINE]
59. Willis, S. L., Tennstedt, S. L., Marsiske, M., **Ball, K.**, Elias, J., Koepke, K. M., . . . Wright, E., for

- the ACTIVE Study Group. (2006). Long-term Effects of Cognitive Training on Everyday Functional Outcomes in Older Adults. *Journal of the American Medical Association*, 296(23), 2805-2814. doi:10.1001/jama.296.3.2805. PMID: PMC2910591 [PubMed – indexed for MEDLINE]
60. Wadley, V. G., Benz, R. L., **Ball, K. K.**, Roenker, D. L., Edwards, J. D., & Vance, D. E. (2006). Development and Evaluation of Home-Based Speed-of-Processing Training for Older Adults. *Archives of Physical Medicine and Rehabilitation*, 87, 757-763. doi:10.1016/j.apmr.2006.02.027 PMID: 16731209 [PubMed – indexed for MEDLINE]
 61. Edwards, J. D., Ross, L. A., Wadley, V. G., Clay, O. J., Crowe, M., Roenker, D. L., & **Ball, K. K.** (2006). The useful field of view test: normative data for older adults. *Archives of Clinical Neuropsychology*, 21(4), 275-786. PMID: 16704918 [PubMed – indexed for MEDLINE]
 62. Vance, D. E., **Ball, K. K.**, Roenker, D. L., Wadley, V. G., Edwards, J. D., & Cissell, G. M. (2006). Predictors of falling in older Maryland drivers: a structural-equation model. *Journal of Aging and Physical Activity*, 14(3), 254-269. PMID: 17090804 [PubMed – indexed for MEDLINE]
 63. Crowe, M., Andel, R., Wadley, V., Cook, S., Unverzagt, F., Marsiske, M., & **Ball K.** (2006). Subjective cognitive function and decline among older adults with psychometrically defined amnesic MCI. *International Journal of Geriatric Psychiatry*, 21(12), 1187-1192. doi:10.1002/gps.1639. PMID: PMC2905787
 64. Schwebel, D. C., Severson, J., **Ball, K. K.**, & Rizzo, M. (2006). Individual difference factors in risky driving: the roles of anger/hostility, conscientiousness, and sensation-seeking. *Accident Analysis and Prevention*, 38(4), 801-810. PMID: 16527223 [PubMed – indexed for MEDLINE] doi:10.1016/j.aap.2006.02.004.
 65. Viamonte, S. M., **Ball, K. K.**, & Kilgore M. (2006). A cost-benefit analysis of risk-reduction strategies targeted at older drivers. *Traffic Injury Prevention*, 7(4), 352-359. PMID: 17114092 [PubMed – indexed for MEDLINE]
 66. Vance, D., Dawson, J., Wadley, V., Edwards, J., Roenker, D., Rizzo, M., & **Ball, K.** (2007). The Accelerate Study: The Longitudinal Effect of Speed of Processing Training on Cognitive Performance of Older Adults. *Rehabilitation Psychology*, 52(1), 89-96. doi:10.1037/0090-5550.52.1.89. PMID: 16108933 [PubMed – indexed for MEDLINE]
 67. Vance, D. E., **Ball, K. K.**, Moore, B. S., & Benz, R. L. (2007). Cognitive remediation therapies for older adults: implications for nursing practice and research. *Journal of Neuroscience Nursing*, 39(4), 226-231. PMID: 17847670 [PubMed – indexed for MEDLINE]
 68. **Ball, K.**, Edwards, J. D., & Ross, L. A. (2007). The Impact of Speed of Processing Training on Cognitive and Everyday Functions. *Journals of Gerontology: Series B*, 62B(S1), 19-31. PMID: 17565162 [PubMed – indexed for MEDLINE]
 69. Okonkwo, O. C., Crowe, M., Wadley, V. G., & **Ball K.** (2007). Visual attention and self-regulation of driving among older adults. *International Psychogeriatrics*, 20, 1-12. doi:10.1017/S104161020700539X. PMID: 17697393 [PubMed – indexed for MEDLINE]
 70. Unverzagt, F. W., Kasten, L., Johnson, K. E., Rebok, G. W., Marsiske, M., Koepke, K. M., . . . **Ball, K.**, . . . Tennstedt, S. L. (2007). Effect of memory impairment on training outcomes in ACTIVE. *Journal of the International Neuropsychological Society*, 13(6), 953-960. doi:10.1017/S1355617707071512. PMID: PMC2733239
 71. Schwebel, D. C., **Ball, K. K.**, Severson, J., Barton, B. K., Rizzo, M., & Viamonte, S. M. (2007). Individual Difference Factors in Risky Driving among Older Adults. *Journal of Safety Research*, 38(5), 501-509. doi:10.1016/j.jsr.2007.04.005. PMID: PMC2186376

72. Okonkwo, O. C., Wadley, V. G., Crowe, M., Roekner, D. L., & **Ball, K.** (2007). Self-Regulation of Driving in the Context of Impaired Visual Attention: Are There Gender Differences? *Rehabilitation Psychology, 52*(4), 421-428. doi:10.1037/0090-5550.52.4.421
73. Vance, D. E., Ross, L. A., **Ball, K. K.**, Wadley, V. G., & Rizzo, M. (2007). Correlates of individual physical activities in older adults. *Activities, Adaptation and Aging, 31*(4), 1-21. doi:10.1300/J016v31n04_01
74. Edwards, J. D., Ross, L. A., Ackerman, M. L., Small, B. J., **Ball, K. K.**, Bradley, S., & Dodson, J. E. (2008). Longitudinal Predictors of Driving Cessation Among Older Adults from the ACTIVE Clinical Trial. *Journals of Gerontology: Psychological Sciences, 63B*(1), P6-P12. PMID: 18332196 [PubMed – indexed for MEDLINE]
75. Okonkwo, O. C., Wadley, V. G., **Ball, K.**, Vance, D. E., & Crowe, M. (2008). Dissociations in visual attention deficits among persons with mild cognitive impairment. *Aging, Neuropsychology, and Cognition, 15* (4), 492-505. doi:10.1080/13825580701844414 PMID:18584341[PubMed - indexed for MEDLINE]
76. Okonkwo, O. C., Crowe, M., Wadley, V. G., & **Ball, K.** (2008). Visual attention and self-regulation of driving among older adults. *International Psychogeriatrics, 20*(1), 162-173. doi:10.1017/S104161020700539X. PMID:17697393 [PubMed - indexed for MEDLINE]
77. Vance, D. E., Webb, N. M., Marceaux, J. C., Viamonte, S. M., Foote, A. W., & **Ball, K. K.** (2008). Mental stimulation, neural plasticity, and aging: directions for nursing research and practice. *Journal of Neuroscience Nursing, 40*(4), 241-249. PMID:18727340 [PubMed – indexed for MEDLINE]
78. Lunsman, M., Edwards, J. D., Andel, R., Small, B. J., **Ball, K. K.**, & Roenker, D. L. (2008). What predicts changes in useful field of view test performance? *Journal of Psychology and Aging, 23*(4), 917-927. doi:10.1037/00134666. PMID: 19140660 [PubMed – indexed for MEDLINE]
79. Vance, D. E., Ross, L. A., Crowe, M. G., Wadley, V. G., Edwards, J. D., and **Ball, K. K.** (2008). The relationship of memory, reasoning, and speed of processing on falling among older adults. *Physical and Occupational Therapy in Geriatrics, 27*(3), 212-228. doi:10.1080/02703180802377123. PMCID: PMC2834242
80. Ackerman, M. L., Edwards, J. D., Ross, L. A., **Ball, K. K.**, & Lunsman, M. (2008). Examination of cognitive and instrumental functional performance as indicators for driving cessation risk across 3 years. *The Gerontologist, 48*(6), 802-810. PMID:19139253 [PubMed – indexed for MEDLINE] (accepted Jan 2008 no PMCID Required)
81. Wadley, V., Roenker, D., & **Ball, K.** (2008). The Senior Driver Research Project: Prediction of At-Fault Crashes and Insurance Claims. *Gerontologist, 48*, 720.
82. Cross, J. M., McGwin Jr., G., Rubin, G. S., **Ball, K. K.**, West, S. K., Roenker, D. L., & Owsley, C. (2009). Visual and Medical Risk Factors for Motor Vehicle Collision Involvement among Older Drivers. *British Journal of Ophthalmology, 93*(3), 400–404. doi:10.1136/bjo.2008.144584. PMCID: PMC2747632
83. Ross, L. A., Clay, O. J., Edwards, J. D., **Ball, K. K.**, Wadley, V. G., Vance, D. E., . . . Joyce, J. J. (2009). Do Older Drivers At-Risk for Crashes Modify Their Driving Over Time? *Journals of Gerontology: Psychological Sciences, 64B*(2), 163-170. doi:10.1093/geronb/gbn034. PMCID: PMC2655158
84. Wolinsky, F. D., Vander Weg, M. W., Martin, R., Unverzagt, F. W., **Ball, K. K.**, Jones, R. N., & Tennstedt, S. L. (2009). The Effect of Speed-of-Processing Training on Depressive Symptoms in ACTIVE. *Journal of Gerontology: Medical Sciences, 64A*(4), 468-472. doi:10.1093/gerons/gln044. PMCID: PMC2657170

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113. Belchior, P., Marsiske, M., Sisco, S. M., Yam, A., Bavelier, D., **Ball, K.**, & Mann, W. C. (2013). Video game training to improve selective visual attention in older adults. *Computers in Human Behavior*, 29(4), 1318-1324. PMID: PMC3758751
114. Ackerman, M. L., Vance, D. E., & **Ball, K. K.** (2014). What Factors Influence the Relationship Between Feedback on Cognitive Performance and Subsequent Driving Self-Regulation? *Journal of Applied Gerontology* [Epub ahead of publication] PMID:24752759 [PubMed – as supplied by publisher]
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116. Okonkwo, O. C., Wadley, V. G., Crowe, M., Roenker, D. L., & **Ball, K.** (2014). Self-Regulation of Driving in the Context of Impaired Visual Attention: Are There Gender Differences? *Translational Issues in Psychological Sciences*, 1(S), 11-22. doi:10.1037/2332-2136.1.S.11
117. Fazeli, P. L., Crowe, M., Ross, L. A., Wadley, V., **Ball, K.**, & Vance, D. E. (2014). Cognitive Functioning in Adults Aging with HIV: A Cross-Sectional Analysis of Cognitive Subtypes and Influential Factors. *J. Clin Res HIV AIDS Prev*, 1(4), 155-169. PMID: PMC4224145
118. Ross, L. A., Edwards, J. D., O'Connor, M. L., **Ball, K. K.**, Wadley, V. G., & Vance, D. E. (2015). The Transfer of Cognitive Speed of Processing Training to Older Adults' Driving Mobility Across 5 Years. *J Gerontol B Psychol Sci Soc Sci*. PMID: 25878053[PubMed – as supplied by publisher] doi: 10.1093/geronb/gbv022.
119. Vance, D. E., Marson, D. C., Triebel, K. L., **Ball, K. K.**, Wadley, V. G., & Humphrey, S. C. (in press). Physical activity and cognitive function in older adults: The mediating effects of depressive symptoms. *Journal of Neuroscience Nursing*.

BOOK CHAPTERS

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1. Sekuler, R., **Ball, K.**, Tynan, P., & Machamer, J. (1982). Psychophysics of motion perception. In A.H. Wertheim, W.A. Wagenaar, & H.W. Leibowitz (Eds.), *Tutorials on motion perception*. New York: Plenum.

2. **Ball, K.**, Roenker, D., & Bruni, J. (1990). Developmental changes in attention and visual search throughout adulthood. In J. Enns (Ed.), *The development of attention: Research and theory* (pp.489-508). North Holland: Elsevier.
3. Sloane, M.E., **Ball, K.**, Owsley, C., Bruni, J.R., & Roenker, D.L. (1992). The Visual Activities Questionnaire: Developing an instrument for assessing problems in everyday visual tasks. *Technical digest: Noninvasive assessment of the visual system Volume 1*, (pp. 26-29).
4. **Ball, K.** & Owsley, C. (1993). Assessing visual function in the older driver. In W. B. Saunders (Ed.), *Clinics in geriatric medicine: Medical considerations in the older driver*, (pp. 389-401).
5. **Ball, K.** (1997). Enhancing mobility in the elderly: Attentional interventions for driving. *Assessment and intervention issues across the lifespan* (pp.267-292). Hillsdale, NJ: Erlbaum.
6. **Ball, K.** & Owsley, C. (2000). Increasing mobility and reducing accidents of older drivers. In K.W. Schaie & M. Pietrucha (Eds.), *Mobility and transportation in the elderly* (pp.213-250). New York: Springer.
7. Sims, R.V. & **Ball, K.** (2002). The older adult driver. In R.J. Ham, P.D. Sloane, & G.A. Warshaw, (Eds.), *Primary care geriatrics: A case-based approach, 4th Edition* (pp. 409-413). St. Louis, MO: Mosby, Inc.
8. **Ball, K.** (2003). Real world evaluation of visual function. In P.A. Sample & C.A. Girkin (Eds.), *Ophthalmology clinics of North America (16)* (pp.289-298). Philadelphia, PA: Saunders.
9. **Ball, K.**, Wadley, V.G., Vance, D.E., & Edwards, J.D. (2004). Cognitive skills: Training, maintenance and daily usage. *Encyclopedia of Applied Psychology* (pp.387-392). North Holland: Elsevier.
10. **Ball, K.**, Vance, D.E., Edwards, J.E., & Wadley, V.W. (2004). Aging and the brain. In M. Rizzo & P.J. Eslinger (Eds.), *Principles and practice of behavioral neurology and neuropsychology* (pp.795-809). Philadelphia, PA: Saunders.
11. **Ball, K.** & Vance, D.E. (2007). Everyday life applications and rehabilitation of processing speed deficits: Aging as a model for clinical populations. In J. DeLuca & J. Kalmar (Eds.), *Information processing speed in clinical populations* (pp. 243-263). New York: Taylor and Francis.
12. **Ball, K.**, Wadley, V.G., Vance, D.E., & Edwards, J.D. (2007). Does driving benefit quality of life among older drivers? In H. Wahl (Ed.), *New dynamics in old age: individual, environmental and societal perspectives* (pp.199-212). New York: Baywood.
13. **Ball, K.**, Ross, L.A., & Viamonte, S.M. (2009). Normal aging. In. T.D. Marcotte & I.Grant (Eds.), *Everyday functioning: Translating laboratory performance to the real world* (pp. 248-263). New York: Guilford.
14. **Ball, K.K.** & Ackerman, M.L. (2011) The Older Driver (Training and Assessment: Knowledge, Skills and Attitudes). In D.L. Fisher, M. Rizzo, J.K. Caird, & J. D. Lee (Eds.), *Handbook Of Driving Simulation For Engineering, Medicine, and Psychology* (pp. 25-1 – 25-10). CRC Press.

FUNDING ACTIVITY**CO-INVESTIGATOR ON THE FOLLOWING PROJECTS – *Currently active projects in italics***

January 15, 2009 – December 31, 2013 – Principal Investigator – S. Cotton
Using ICT's To Enhance Quality of Life Among Older Adults, An Invention Study. NIH.
R01 AG030425-01A2 (\$344,262)

April 1, 2008 – March 31, 2013 – Principal Investigator – C. Owsley
Older Drivers: An Evidence-Basis for Licensure Standards. Funded by NIH/CEI
R01 AG030120-01 (\$250,000)

October 1, 2007 – September 30, 2012 – Principal Investigator – T. Novack
UAB Traumatic Brain Injury Model System (UAB TBIMS). Funded by NIDRR
H133A070039 (\$434,399)

***September 30, 2007 – June 30, 2017 – Principal Investigator, R. Allman
K. Ball, Director of Investigator Development Core
Deep South Resource Center for Minority Aging Research. Funded by NIH (\$484,496)***

October 1, 1997 - September 30, 1999 – Principal Investigator, C. Owsley
Multi-disciplinary clinic for older driver assessment Funded by UAB Health Services Foundation
(\$90,000)

September 1, 1997 - August 31, 1999 - Principal Investigator - C. Owsley
Co-investigator on Vehicle crashes, injuries and older drivers. Funded by NIA (\$250,635)

April, 1, 1997 - March 31, 2000 - Principal Investigator - C. Owsley
Co-investigator on Self-regulation as a mechanism for improving the safety of older drivers. Funded
by General Motors (\$371,175).

July 1, 1989 - June 30, 1990 Principal Investigator – C. Owsley
Andrus Foundation Grant entitled "Aging, Driving, and the Useful Field of View." Co-Investigator with
Cynthia Owsley and Michael Sloane. (\$47,223)

SBIR Funding – served as a co-investigator

April 1, 2007- March 31, 2009 Awarded by NIA to Visual Awareness Research Group, Inc.
Principal Investigator, P. Keirn
"Development and Evaluation of an Interactive Cognitive Training Program." Phase II \$776,735.
Subcontract to UAB

April 1, 2006 – March 31, 2007 Awarded by NIA to Visual Awareness, Inc.
Principal Investigator, P. Keirn
"Development and Evaluation of an Interactive Cognitive Training Program. Phase I . \$100,000
Subcontract to UAB

February 1, 2004 – January 31, 2006
National Institute on Aging, NIH (R44) "Development and Evaluation of a Brief UFOV Measure (Phase
II)." Philip A. Keirn, Principal Investigator (CEO, Visual Awareness, Inc.) (\$749,955, UAB subcontract
\$307,265)

September 1, 2003 – February 29, 2004

National Institute on Aging, NIH (R44) "Development and Evaluation of a Brief UFOV Measure (Phase I)." Philip A. Keirn, Principal Investigator (CEO, Visual Awareness, Inc.) (\$99,807, UAB subcontract \$33,164)

September 1, 2002 – February 28, 2003

National Institute on Aging, NIH (SBIR Phase I) "Educating Health Care Providers on Driving Competence." Philip A. Keirn, Principal Investigator (CEO, Visual Awareness, Inc.) (\$99,922)

March 1, 2001 - Feb. 28, 2003

Small Business Innovative Research Grant Phase II "Home Based Attentional Training for Older Adults. Co-Investigator with Philip Keirn (CEO, Visual Awareness, Inc.) (\$750,000)

May 1, 2000 - Oct. 31, 2000

Small Business Innovative Research Grant was awarded by the National Institute on Aging entitled "Home Based Attentional Training for Older Adults." Co-Investigator with Philip Keirn (CEO, Visual Awareness, Inc.) (\$100,000)

August 1, 1993 - June 30, 1996

Small Business Innovative Research Grant Phase II was awarded by the National Institute on Aging entitled "Perceptual Assessment/Improvement of the Older Driver. Co-Investigator with Daniel Roenker (VP Research & Development) (\$500,000)

Feb. 1, 1992 - July 1, 1992

Kentucky Bridge Grant for the NIA Small Business Innovative Research Grant Program. (\$30,000)

Feb. 15, 1991 - August 15, 1991

Small Business Innovative Research Grant was awarded by the National Institute on Aging entitled "Perceptual Assessment/Improvement of the Older Driver." Co-Investigator with Philip Keirn (President Visual Resources, Inc.) (\$49,877)

PRINCIPAL INVESTIGATOR ON THE FOLLOWING PROJECTS

INITIAL GRANT AWARD

Jan. 1 1983 - Dec. 31, 1984

Small research grant 42 USC 241 42 CFR 52 awarded by the National Institute on Aging entitled "Effect of practice on visual activity as a function of age." (\$15,000)

MERIT AWARD R01 AG005739

August 1, 1985 - March 31, 1989

Research grant #1-R01-AGO5739 was awarded by the National Institute on Aging entitled "Improvement of visual processing in older adults." (\$350,000)

April 1, 1989 - March 31, 1994

Continuation of Research grant #1-R01-AGO5739 awarded by the National Institute on Aging entitled "Improvement of visual processing in older adults." (\$800,000)

March 1, 1994 - February 28, 2004

Continuation of Research grant #1-R01-AGO5739 was awarded by the National Institute on Aging entitled "Improvement of visual processing in older adults."
(\$2,400,000 for first five year period) This grant received a M.E.R.I.T. award from NIH

October 1, 2006 - September 30, 2012

National Institutes of Health. Competing Continuation of Research grant #1-R01-AGO5739 "Improvement of visual processing in older adults."

ROYBAL CENTER: P30 AG022838

August 1, 1993 - June 30, 2003

Roybal Center for Research on Applied Gerontology. Improving Safety and Mobility for the Older Driver (\$5,500,000). Initial 10 years were funded as a P50 award from NIA. Center director for field studies collaborating with UAB, The Johns Hopkins University, Bryn Mawr Rehabilitation Hospital, The Rehab. Institute of Chicago, Washington Univ. Medical School, The University of Iowa, Visual Resources, Inc., and Scientex, Inc.

September 20, 2003 – August 31, 2008

National Institute on Aging, NIH (P30) "Center for Translational Research on Aging and Mobility." Roybal Center Continuation.(\$1,848,751)

September 1, 2009 – August 31, 2014

NIH (P30) "Center for Translational Research on Aging and Mobility"
Roybal Center Continuation (\$1,826,189)

September 30, 2014 – August 31, 2019

***NIH (P30) "Center for Translational Research on Aging and Mobility"
Roybal Center Continuation (\$1,431,045)***

ACTIVE CLINICAL TRIAL: U01 AG014289

Sept. 30, 1996 - Sept. 30, 2001

Clinical Trial funded by the National Institute on Aging entitled "Cognitive Training and Everyday Competence in the Elderly." (\$2,200,000).

September 30, 2003 – December 31, 2007

National Institute on Aging, NIH (U01) "ACTIVE Phase II: UAB Field Site" (\$540,658)

May 1, 2008 – April 30, 2012

National Institute on Aging, NIH (U01) "ACTIVE Phase III: UAB Field Site" (\$780,030)

T32 – T32 AG000274

June 1, 2000 – May 31, 2005

NIA T32 Training Grant entitled
"Clinical and Behavioral Training in Gerontology" (\$1,742,273)

May 31, 2005 – April 30, 2006

Continuation NIA Training Grant entitled “Clinical and Behavioral Training in Gerontology” Karlene Ball, Principal Investigator. (\$1,742,273)

Maryland – R01 AG021958

September 1, 2003 – August 31, 2008

National Institute on Aging, NIH (R01) “Predicting Long-term Mobility Outcomes for Older Adults” (\$1,907,537)

February 15, 2010 – January 31, 2015

NIH (R01) “Predicting Long-term Mobility Outcomes for Older Adults” (\$2,215,862)

Miles Project – Alzheimer’s Disease Research Center (ADRC)

May 1, 2004 – March 31, 2009

National Institutes of Health, NIH “Alzheimer’s Disease Research Center”. Lindy Harrell, Principal Investigator. Everyday Functional Performance in Mild Cognitive Impairment. Karlene Ball, Co-Investigator. \$637,096.

R03 – R03 AG023078

September 1, 2004 – June 30, 2006

National Institutes of Health, “Cognitive Training Gains and Mobility Outcomes in ACTIVE” R03 \$145,000.

CONFERENCE GRANT

July 1, 2011 – June 30, 2012 – Principal Investigator – K. Ball
Emerging Issues in Safe and Sustainable Mobility for Older Persons
1 R12 AG040949-01 (\$20,000)

VTTI (Older Truck Driver’s) Subcontract

23 September 2011 – 22 June 2012

Virginia Polytechnic Institute and State University
“Performance-Based Testing of Driving Skills/Capability”
\$145,378

PRESENTATIONS

-
- Ball, K.** & Sekuler, R. (1976). *Detection of motion in two kinds of directional noise*. Presented at the annual meeting of the Psychonomic Society, St. Louis, MO.
- Sekuler, R. & **Ball, K.** (1977). *Visibility of moving targets under direction and speed uncertainty*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, K.** & Sekuler, R. (1977). *Directional selectivity: Tuning functions and discrimination performance*. Presented at the annual meeting of the Psychonomic Society.
- Sekuler, R. & **Ball, K.** (1978). *Direction-selective masking by filtered noise*. Presented at the annual meeting of the Optical Society of America.
- Sekuler, R. & **Ball, K.** (1980). *Models of motion perception with direction uncertainty*. Presented at the annual meeting of the Optical Society of America, Sarasota, FL.
- Sekuler, R., **Ball, K.**, Tynan, P., & Machamer, J. (1980). *Psychophysics of motion perception: A tutorial paper*. Presented at the NATO Seminar on Motion Perception, Netherlands.
- Ball, K.**, Machamer, J., & Sekuler, R. (1980). *Detection and identification of motion with direction uncertainty*. Presented at the annual meeting of the Optical Society of America.
- Sekuler, R. & **Ball, K.** (1984). *Perceptual learning in older observers*. Presented at the Seventh European Conference on Visual Perception, Cambridge, England.
- Sekuler, R. & **Ball, K.** (1985). *Measuring older persons' functional visual fields*. Presented at the annual meeting of the Association for Research in Vision Ophthalmology.
- Ball, K.**, Phillips, G., & Sekuler, R. (1986). *Improved spatial frequency discrimination related to acuity and age*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, D., **Ball, K.**, Miller, R., Roenker, D., White, D., & Griggs, D. (1986). *Bases for expanded functional visual fields as a result of practice*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, K.**, Beard, B., Roenker, D., & Miller, R. (1987). *Modeling irregularities in the direction discrimination function*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, K.** (1987). *Modeling irregularities in the direction discrimination function with age*. Colloquium presentation for Vanderbilt University, Nashville, TN.
- Ball, K.**, Beard, B., Miller, R., & Roenker, D. (1987). *Mapping the Useful Field of View as a function of age*. Presented at the annual meeting of the Gerontological Society, Washington, D.C.
- Ball, K.** (1988). *Neuronal basis of age-related visual decline*. Colloquium presentation for University of Alabama at Birmingham, Birmingham, AL.
- Ball, K.** (1988). *Age-related variations in peripheral information processing*. Colloquium presentation for Miami of Ohio.
- Ball, K.**, Beard, B., Roenker, D., Miller, R., & Ball, D. (1988). *Visual search: Age and practice*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, K.** (1988). *Clinical basis for the Useful Field of View in assessment of vision*. Colloquium presentation for University of Kentucky, Lexington, KY.
- Ball, K.**, Owsley, C., Beard, B., Roenker, D., & Ball, D. (1989). *Age and functional vision as related to everyday performance*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Sarasota, FL.
- Ball, K.** (1989). *Functional vision as related to driving performance*. Invited presentation for the NIH/DOT/CDC Workshop on the Older Driver, Bethesda, MD.

- Ball, K.** (1990). *Age and Visual Search: Bases and impact of shrinkage of the Useful Field of View on everyday functioning*. Invited presentation for the National Academy of Sciences winter meeting of the Committee on Vision.
- Ball, K., Roenker, D., & Bruni, J.** (1990). *The use of functional vision assessment in predicting mobility problems in older adults*. Presented at the Noninvasive Meeting of the Optical Society of America.
- Ball, K., Bruni, J., Roenker, D., Jackson, L., & Dahl, R.** (1990). *Age and the Useful Field of View: Causes and relationships to everyday functioning*. Presented at the Third Cognitive Aging Conference.
- Ball, K.** (1990). *Cognitive assessment and training of the older driver*. Invited workshop for the KAG Annual Meeting.
- Ball, K., Roenker, D., Bruni, J., Jackson, L., Dahl, R., & Rowan, M.** (1990). *Age and visual search: Bases for shrinkage of the Useful Field of View*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology.
- Ball, K.** (1990). *Cognitive training and the older driver*. Invited symposium for the American Geriatric Association.
- Ball, K., Owsley, C., & Sloane, M.** (1990). *A new approach to visual assessment of the older driver*. Invited symposium for the annual meeting of the American Psychological Association.
- Ball, K.** (1990). *A comprehensive approach to assessment of the older driver*. Invited paper for the Conference on Driver Competency Assessment of the California Department of Motor Vehicles.
- Owsley, C., **Ball, K.**, & Sloane, M. (1991). *Predictors of accident involvement for the older driver*. Invited symposium for the annual meeting of the Transportation Research Board.
- Sloane, M. E., Owsley, C. & **Ball, K.** (1991). *Visual correlates of vehicle accidents in older drivers*. Presented at the Noninvasive Meeting of the Optical Society of America.
- Ball, K., Roenker, D., Bruni, J., Owsley, C., Sloane, M., Ball, D., & O'Connor, K.** (1991). *Driving and visual search: Expanding the Useful Field of View*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology.
- Ball, K.** (1991). *Attentional and cognitive factors in predicting older driver problems*. Presented at the International Conference on Strategic Highway Research Program and Traffic Safety on Two Continents, Sweden.
- Ball, K.** (1991). *Setting international driving standards*. Invited presentation at the CCMTA International Conference on Driver Vision Standards and Testing, Toronto.
- Ball, K.** (1991). *Improvement of visual processing in older adults: A career perspective*. Invited presentation to the Council of the National Institutes of Health.
- Owsley, C., **Ball, K.**, & Sloane, M.E. (1991). *Visual attention problems predict vehicle crash involvement in older adults*. Presented at the North Atlantic Treaty Organization (NATO) Institute on "The Developing Visual System: From Birth to Late Life," Viterbo, Italy.
- Sloane, M.E., **Ball, K.**, Owsley, C., Bruni, J.R., & Roenker, D. L. (1991). *The Visual Activities Questionnaire: Developing an instrument for assessing problems in everyday visual tasks*. Presented at the Noninvasive Meeting of the Optical Society of America.
- Ball, K., Owsley, C., Sloane, M.E., Roenker, D., & Bruni, J.** (1991). *Visual attention problems as a predictor of vehicle crashes among older drivers*. Invited symposium for the annual meeting of the Transportation Research Board.
- Ball, K.** (1992). *Visual learning across the life span in normally and partially sighted persons*. Invited symposium for the meeting of the Low Vision Reading and Rehabilitation Group.
- Ball, K., Graves, M, White, A., Roenker, D., & Bruni, J.** (1992). *Shut up, I can't see where I'm going: The effect of auditory load on the Useful Field of View*. Presented at the Cognitive Aging Conference.
- Ball, K., Owsley, C., Sloane, M., Roenker, D., & Bruni, J.** (1992). *Visual attention problems as a predictor of vehicle crashes among older drivers*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology.

- Ball, K.**, Owsley, C., Sloane, M., Roenker, D., & Bruni, J. (1992). *The promise of applied cognitive aging research: Basic research delivers*. Invited symposium for the annual meeting of the American Psychological Association.
- Ball, K.** (1993). *Driver assessment using the Vision Analyzer*. Presented at the National Task Force on Elder Driver Safety & Mobility at the annual meeting of the American Occupational Therapy Association.
- Ball, K.**, Roenker, D., Cissell, G., Graves, M., Edwards, J., & Whorley, K. (1993). Visual Attention Analyzer: Technology to evaluate and train drivers' visual performance. *Proceedings of SPIE Symposium on Coupling Technology to National Need 2102*, 12 pages.
- Ball, K.**, Owsley, C., Roenker, D., & Sloane, M.E. (1993). Isolating risk factors for crash frequency among older drivers. *Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting 1*, 211-214.
- Ball, K.** (1994). *Cognitive correlates of driver performance*. Presented at the annual meeting of the Transportation Research Board.
- Ball, K.** (1994). *Keeping older adults driving safely*. Presented at the annual meeting of the American Society on Aging.
- Ball, K.**, Owsley, C., Keeton, D., Edwards, J., & Graves, M. (1994). *Predicting visual search problems in older adults*. Presented at the Cognitive Aging Conference.
- West, R., **Ball, K.**, Edwards J., & Cissell, G. (1994). *Individual differences in negative priming: Evidence for preserved inhibitory processes in some older individuals*. Plenary paper presented at the Cognitive Aging Conference, Atlanta, GA.
- Ball, K.**, Owsley, C., Keeton, D., Edwards, J., & Graves, M. (1994). *Predicting visual search problems in older adults*. Presented at the Cognitive Aging Conference, Atlanta, GA.
- Owsley, C., **Ball, K.**, & Keeton, D.M. (1994). *Relationship between visual sensitivity and target localization in older adults*. Presented at the annual meeting of the Association for Research in Vision & Ophthalmology.
- Ball, K.** & Owsley, C. (1994). *Older drivers & crash risk: A multidisciplinary perspective*. Presented at the annual meeting of the American Psychological Society.
- Ball, K.** (1994). *Enhancing mobility in the elderly*. Presented at the Life Span Development Conference on "Prevention and Intervention Issues across the Life Span."
- Ball, K.** & Owsley, C. (1994). *Predicting vehicle crashes in the elderly*. Symposium on Aging and Driving, Stockholm, Sweden.
- Ball, K.** (1994). *Assessing the older driver: An interdisciplinary approach*. Presented at the annual meeting of the Human Factors & Ergonomics Society.
- Ball, K.** (1994). *Older drivers*. Presented at the annual meeting of the American Association of Homes and Services for the Aging.
- Ball, K.** (1994). *Driving technology and the driving environment*. Presented at the annual meeting of the American Association of Homes and Services for the Aging.
- Ball, K.** (1995). *Visual/Cognitive influences on older drivers*. Presented at the annual meeting of the Transportation Research Board.
- Roenker, D. & **Ball, K.** (1995). *The effects of UFOV training on driving performance*. Presented at the annual meeting of the Transportation Research Board.
- Duchek, J.M., Hunt, L., Morris, J.C., Buckles, V., & **Ball, K.** (1995). *Cognitive and driving performance in Alzheimer's disease*. Presented at the 76th Annual Meeting of the American Occupational Therapy Association, Denver, CO.
- Ball, K.** (1995). *Everyday cognition and aging: Maintaining driving, acquisition of computer skills*. Presented at the annual meeting of the American Psychological Society.
- Ball, K.** (1996). *Driving and mobility at advanced ages*. Presented at the annual meeting of the American Association for the Advancement of Science.
- Ball, K.** (1996). Invited Speaker, Conference on Dementia and the Older Driver, Washington University, St. Louis.

- Ball, K.** (1996). *Predicting crash risk in older drivers*. Presented at the annual meeting of the American Psychological Association, Toronto.
- Ball, K.** (1996). Invited presentation, THE TODAY SHOW.
- Ball, K.** (1996). *Establishing valid performance & physical qualification criteria for school bus drivers*. Invited presentation, annual conference for State Directors of Pupil Transportation Services, Nashville, TN.
- Ball, K.** (1996). Invited presentation to the Psychological Corporation regarding testing of cognitive impairment for older drivers.
- Ball, K.** (1996). Invited presentation to Enterprise, Inc. regarding the testing of employees for driving fitness.
- Ball, K.** (1996). *Applied cognitive aging*. Presented at the Annual Cognitive Aging Conference, Atlanta, GA.
- Ball, K.** (1997). *The effects of Useful Field of View training on driving performance*. Presented at the World Congress of Gerontology, Adelaide, Australia.
- Roemaker, D.L., Cissell, G.M., & **Ball, K.** (1997). *The effects of visual attention training on driving performance*. Presented at the annual meeting of the Association for Research in Vision and Ophthalmology, Miami, FL.
- Ball, K.** (1997). Invited presentation to the Kentucky Association for Gerontology, Bowling Green, KY.
- Ball, K.** (1997). *Speed of processing training in ACTIVE*. Paper presented at the meeting of The Gerontological Society of America, Cincinnati, OH.
- Myers, R.S., **Ball, K.**, Kalina, T.D., Roth, D.L., & Goode, K.T. (1998). *Useful Field of View and on-road driving performance*. Paper presented at the meeting of The Cognitive Aging Conference, Atlanta, GA.
- Ball, K.**, Roemaker, D., Cissell, G.M., & Edwards, J.D. (1998). *Speed of processing training: transfer effects in a cognitive battery*. Paper presented at the meeting of The Cognitive Aging Conference, Atlanta, GA.
- Cissell, G.M., Roemaker, D., & **Ball, K.** (1998). *Long term effects of Useful Field of View training on driving performance*. Paper presented at the meeting of The Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL.
- Ball, K.** (1998). Speed of processing training in the ACTIVE project. In *Cognitive intervention - clinical trial for older adults*. Symposium conducted at the annual meeting of the American Psychological Association, San Francisco, CA.
- Ball, K.** (1998). *Applied gerontology: Enhancing mobility outcomes and driving in the elderly*. New Fellow invited address at the annual meeting of the American Psychological Association, San Francisco, CA.
- Ball, K.** (1998). *Useful Field of View: Predicting everyday visual performance*. Invited address at the annual meeting of the Optical Society of America.
- Ball, K.** (1999). Invited speaker, Alabama Conference on Vision and Aging, Birmingham, AL.
- Ball, K.** (1999). Invited speaker, Workshop on Minority Recruitment, Gerontology Society of America, San Francisco, CA.
- Ball, K.** & Owsley, C. (1999-2000). Invited contributors, Report on Older Drivers, AARP Policy Institute, Washington, D.C.
- Ball, K.**, Myers, R., Goode, K., & Roemaker, D. (1999). *Speed of processing training: transfer effects to everyday cognition*. Paper presented at the annual meeting of the American Psychological Association, Boston, MA.
- Ball, K.**, Myers, R., & Roemaker, D. (1999). Theoretical implications of cognitive training studies. In *Promoting successful aging through applied research: New findings from the Roybal Centers*. Symposium conducted at the annual meeting of the American Psychological Association, Boston, MA.
- Ball, K.** & Roemaker, D. (1999). A field test of a driver assessment battery. In *To drive or not to drive? Transportation transitions*. Symposium conducted at the annual meeting of the Gerontological Society of America, San Francisco, CA. *The Gerontologist (Special Issue 1)*, 39, 360.

- Ball, K.**, Owsley, C., Wadley, V., Edwards, J., Frankel, M., Ball, D., & Clay, O. (2000). Enhancing the safety of older drivers: Results of a meta analysis of crash risk factors. In *Insights in older driver behaviour and safety*. Symposium conducted at the annual meeting of the International Conference on Traffic and Transport Psychology, Berne, Switzerland.
- Ball, K.**, Edwards, J., Wadley, V., McConnell, K., & Frankel, M. (2000). *Older drivers: A safety and mobility perspective*. Presented at the Mobility Conference of the Southeast Center of Excellence in Geriatric Medicine, Alabama.
- Ball, K.**, Roenker, D., Rizzo, M., & McGehee, D. (2000, November). Cognitive training to improve driving competence. In C. Owsley (chair) & R. Barr (discussant), *Interventions to enhance the safety of older drivers: Translating research results into practice*. Symposium conducted at the annual meeting of the Gerontological Society of America, Washington, D.C. *The Gerontologist (Special Issue 1)*, 40, 41.
- Ball, K.**, Roenker, D., & Cissell, G. (2000, November). Challenges to driver assessment in a variety of field sites. In R.A. Marottoli (chair) & J. Eberhard (discussant), *Driving assessment: Development, testing, and implementation in diverse settings*. Symposium conducted at the annual meeting of the Gerontological Society of America, Washington, D.C. *The Gerontologist (Special Issue 1)*, 40, 12.
- Ball, K.** (2001, April). Cognitive retraining programs. In *Enhancing the safety of older drivers: Translating research into practice*. Symposium conducted at the American Occupational Therapy Association's Pre-Conference Institute, Philadelphia, PA.
- Ball, K.** (2001, June). *Driver competence and the Useful Field of View*. Presented at The Eye and The Auto, an international forum on "The Relationship Between Vision and the Safe Operation of a Motorized Vehicle," Detroit, MI.
- Wadley, V., **Ball, K.**, & Roenker, D. (2001, July). Dissiminating research results on older drivers to applied settings. In *Bridging gaps between research and practice: Successful dissemination of Roybal Center research interventions*. Symposium conducted at the XVII World Congress of Gerontology, Vancouver, British Columbia.
- Ball, K.** (2001, August). Presentation at Driving Assessment 2001, Aspen, CO.
- Ball, K.**, Ball, D., Rumble, M. Edwards, D., & Wadley, V. (2001, August). *Effects of a speed of processing intervention on driving performance: The ACCELERATE study*. Presented at the International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Aspen, CO.
- Ball, K.**, Wadley, V., Edwards, J., Ball, D., & Roenker, D. (2001, August). *Meta analysis of crash risk factors among older drivers: Application to a model program of driver screening*. Presented at the International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design. Aspen, CO.
- Ball, K.** (2001, August). Symposium Chair, *Cognitive Aging, Attitudes, and Everyday Abilities*. Annual meeting of the American Psychological Association, San Francisco, CA.
- Roenker, D., **Ball, K.**, Wadley, V., Edwards, J., Clay, O. & Roth, D. (2001, August). Enhancing safety and mobility of older drivers: a meta analysis. In *Cognitive aging, attitudes, and everyday abilities*. Symposium conducted at the annual meeting of the American Psychological Association, San Francisco, CA.
- Ball, K.** (2001, November). Symposium Chair, *Evaluation of a Brief Driver Assessment Battery in the Maryland Motor Vehicle Administration*. Annual meeting of the Gerontological Society of America, Chicago, IL.
- Ball, K.**, Wadley, V., & Roenker, D. (2001, November). Challenges of applied gerontological research in field settings. In, *Solving critical problems in applied research on aging: The experience of the Roybal Centers*. Symposium conducted at the annual meeting of the Gerontological Society of America, Chicago, IL. (Abstracted, *The Gerontologist*, 41 [Special Issue I], 56).
- Edwards, J., Wadley, V., Wood, K., **Ball, K.**, & Roenker, D. (2001, November). Relationship of cognitive and sensory function to everyday function in older adults. In, *New research findings from the Edward Roybal Research Centers on applied gerontology*. Symposium conducted at

- the annual meeting of the Gerontological Society of America, Chicago, IL. (Abstracted, *The Gerontologist*, 41 [Special Issue I], 254).
- Edwards, J.D., **Ball, K.**, Wadley, V.G., & Vance, D.E. (2002, April). *Who benefits from speed of processing training?* Plenary presentation at the meeting of Cognitive Aging, Atlanta, GA.
- Vance, D.E., Edwards, J.D., **Ball, K.**, & Wadley, V.G. (2002, April). *Predicting successful cognitive aging in elders.* Presented at the meeting of Cognitive Aging, Atlanta, GA.
- Vance, D.E., Edwards, J.D., Wadley, V.G., & **Ball, K.** (2002, April). *The relationship between sensory function and cognitive decline.* Presented at the biennial meeting of Cognitive Aging, Atlanta, GA.
- Ball, K.**, Roenker, D.L., Wadley, V.G., Edwards, J.D., & Vance, D.E. (2002, August). *Field evaluation of a brief driver assessment battery.* Presented at the annual meeting of the American Psychological Association, Chicago, IL.
- Vance, D.E., Edwards, J.D., **Ball, K.**, & Wadley, V.G. (2002, August). *Effects of speed of processing training on older adults.* Presented at the annual meeting of the American Psychological Association, Chicago, IL.
- Vance, D.E., Edwards, J.D., **Ball, K.**, & Wadley, V.G. (2002, August). *Effects of physical activity on cognitive health in older adults.* Presented at the annual meeting of the American Psychological Association, Chicago, IL.
- Vance, D.E., Edwards, J.D., **Ball, K.**, & Wadley, V.G. (2002, August). *Predictors of successful cognitive aging.* Presented at the annual meeting of the American Psychological Association, Chicago, IL.
- Vance, D. E., Edwards, J. D., Rizzo, M., **Ball, K.**, & Wadley, V. G. (2002, August). *Physical activity on cognitive health in older adults.* Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Edwards, J. D., Rizzo, M., **Ball, K.**, & Wadley, V. G. (2002, August). *Speed of processing on training older adults.* Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Edwards, J. D., **Ball, K.**, & Wadley, V. G. (2002, August). *Predicting successful cognitive aging.* Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Ball, K.**, Roenker, D. L., Wadley, V. G., Edwards, J. D., & Vance, D. E. (2002, August). *Field evaluation of a brief driver assessment battery in older adults.* Poster presented at the Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Ball, K.** (2002, November). Symposium Chair, *Assessing driving risk in older drivers presenting to the Maryland Motor Vehicle Administration (MVA).* Semi-annual meeting of the International Society of Gerontechnology, Miami, FL.

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- Wadley, V. G., **Ball, K.**, & Vance, D. E. (2002, November). *Implications for driver assessment and rehabilitation.* Paper presented at the International Society of Gerontechnology Conference, Miami, FL.
- Edwards, J. D., Wadley, V. G., **Ball, K.**, & Vance, D. E. (2002, November). *Demographic variables do not predict gains resulting from speed-of-processing training.* Paper presented at the International Society of Gerontechnology Conference, Miami, FL.
- Ball, K.** (2002, November). Symposium Chair, *Predictors, transfer, and durability of gains associated with speed of processing training.* Annual meeting of the Gerontological Society of America, Boston, MA. (Abstracted, *The Gerontologist*, 42 [Special Issue I], 309).

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- Vance, D. E., Edwards, J. D., **Ball, K.**, Wadley, V. G., & Frankel, M. S. (2002, November). *Accelerate:*

Impact of speed of processing training on cognition and driving performance. Paper presented at the Gerontological Society of America Conference, Boston, MA.

Wadley, V., Edwards, J., **Ball, K.**, & Vance, D. (2002, November). *Demographic factors do not predict speed of processing training gains.* Paper presented at the Gerontological Society of America Conference, Boston, MA.

Edwards, J. D., **Ball, K.**, Wadley, V. G., Wood, K. M., & Vance, D. E. (2002, November). *SKILL: Impact of speed of processing training on cognitive and everyday performance.* Paper presented at the Gerontological Society of America Conference, Boston, MA.

Vance, D. E., Edwards, J. D., **Ball, K.**, Wadley, V. G., & Frankel, M. S. (2002, November). *The Accelerate Project: Impact of speed of processing training on cognition and driving.* Paper presented at the UAB Center for Aging Conference, Birmingham, AL.

Wadley, V., Edwards, J., **Ball, K.**, & Vance, D. (2002, November). *Demographic factors that predict speed-of-processing training gains.* Paper presented at the UAB Center for Aging Conference, Birmingham, AL.

Edwards, J. D., **Ball, K.**, Wadley, V. G., Wood, K. M., & Vance, D. E. (2002, November). *The SKILL Project: Impact of speed-of-processing training on cognitive and everyday performance.* Paper presented at the UAB Center for Aging Conference, Birmingham, AL.

Vance, D.E., Edwards, J.D., **Ball, K.**, & Wadley, V.G. (2003, March). *What predicts successful cognitive aging in elders?* Presented at the annual meeting of the American Society on Aging, Chicago, IL.

Vance, D.E., Edwards, J.D., **Ball, K.**, Wadley, V.G., & Frankel, M.S. (2003, March). *The effect of speed of processing training on cognition and driving performance.* Presented at the annual meeting of the American Society on Aging, Chicago, IL.

Vance, D.E., Edwards, J.D., Wadley, V.G., **Ball, K.**, & Wood, K.M. (2003, March). *Exploring the role of sensory function on cognitive decline.* Presented at the annual meeting of the American Society on Aging, Chicago, IL.

Vance, D.E., **Ball, K.**, Wadley, V.G., & Edwards, J.D. (2003, May). *Speed of processing training in community-dwelling older adults.* Presented at the annual meeting of the American Psychological Society, Atlanta, GA.

Vance, D.E., Edwards, J.D., Wadley, V.G., & **Ball, K.** (2003, May). *Competing hypotheses on cognitive vitality and physical activity in older adults.* Presented at the annual meeting of the American Psychological Society, Atlanta, GA.

Vance, D.E., **Ball, K.**, Wadley, V.G., Edwards, J.D. (2003, May). *Factors predicting physical activity in older adults.* Presented at the annual meeting of the American Psychological Society, Atlanta, GA.

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Ball, K., Roenker, D., McGwin Jr., G., Wadley, V., Edwards, J., & Raleigh, R. (2003, July). *Can high-risk drivers be identified in a DMV setting with a brief battery of functional tests?* Presented at the Second International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Park City, Utah.

Darling, L.Z., Wadley, V.G., Roth, D.L., & **Ball, K.** (2003, August). *Executive function and everyday functioning in community-dwelling older adults.* Accepted for presentation at the annual meeting of the American Psychological Association, Toronto, Canada.

Vance, D.E., Wadley, V.G., Edwards, J.D., Rizzo, M. (2003, August). *Competing hypotheses of physical activity on cognitive health in elders.* Accepted for presentation at the annual meeting of the American Psychological Association, Toronto, Canada.

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Vance, D. E., Darling, L., Wadley, V., Edwards, J. D., Noles, N. S., & **Ball, K.** (2003, November).

- Unanticipated benefits of a social contact control group: Internet training.* Paper presented at the annual meeting of the Gerontological Society of America, San Diego, CA.
- Edwards, J. D., Vance, D. E., Wadley, V., & **Ball, K.** (2003, November). *Choosing control groups for cognitive training studies.* Paper presented at the annual meeting of the Gerontological Society of America, San Diego, CA.
- Ball, K.**, Wadley, V., Edwards, J. D., Vance, D. E., Roenker, D., & Cissell, G. (2003, November). *Home based speed of processing training.* Paper presented at the annual meeting of the Gerontological Society of America, San Diego, CA.
- Ball, K.** Cognitive Training Symposium. Speech given at NIA and now in preparation for a special issue with the institute.

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- Ball, K.**, Wadley, V. G., Edwards, J. D., Vance, D. E., & Roenker, D. L. (2004, January). *The impact of cognitive training on mobility-related cognitive and everyday functions.* Paper presented at the Transportation Advisory Board Conference, Washington, DC.
- Vance, D. E., & **Ball, K.** (2004, March). *Extending safe driving for older adults.* Paper presented at the Alabama Gerontological Society Conference, Birmingham, AL.
- Vance, D. E., **Ball, K.**, Wadley, V. G., & Edwards, J. D. (2004, March). *Impact of speed of processing training on cognition and driving performance.* Invited speaker to the Department of Psychology, Texas State University, San Marcos, TX.
- Vance, D. E., **Ball, K.**, Wadley, V. G., & Edwards, J. D. (2004, April). *Extended and standard speed training schedules produce equivalent gains.* Paper presented at the Cognitive Aging Conference, Atlanta, GA.
- Darling, L.Z., Wadley, V.G., Roth, D.L., & **Ball, K.** (2004, April). *Executive function and everyday functioning in community-dwelling older adults.* Presented at the biennial meeting of Cognitive Aging, Atlanta, GA.
- Ross, L.A., Edwards, J.D., Clay, O.J., Wadley, V.G., & **Ball, K.** (2004, April). *Speed of processing training gains are independent of age, self-efficacy and depression.* Presented at the biennial meeting of Cognitive Aging, Atlanta, GA.
- Vance, D.E., **Ball, K.**, Wadley, V.G., & Edwards, J.D. (2004, April). *Extended and standard speed training schedules produce equivalent gains.* Presented at the biennial meeting of Cognitive Aging, Atlanta, GA.
- Wood, K.M., Edwards, J. D., & **Ball, K.** (2004, April). *Impact of baseline cognitive function on acquisition of job knowledge.* Poster presented at the biennial meeting of Cognitive Aging, Atlanta, GA.
- Vance, D. E., Sims, R., Myles, T., & **Ball, K.** (2004, May). *Physiological and psychosocial predictors of speed of processing in older community-dwelling adults.* Poster presented at the American Geriatrics Society Conference, Las Vegas, NV.
- Vance, D. E., Sims, R., Myles, T., & **Ball, K.** (2004, May). *Medical and psychosocial predictors of falling and balance in community-dwelling older adults.* Poster presented at the American Geriatrics Society Conference, Las Vegas, NV.
- Clay, O.J., Edwards, J.D., Wadley, V.G., Roth, D.L., Ross, L.A., & **Ball, K.** (2004, July). *Associations between age, sensory function, speed, and general cognition.* Presented at the annual meeting of the American Psychological Association, Honolulu, HI.
- Edwards, J.D., **Ball, K.**, Wadley, V.G., Benz, R., & Roenker, D.L. (2004, July). *Elders with processing speed impairments benefit from home-based training.* In V. Wadley (Acting Chair for K. Ball), *Mobility loss among older adults: prediction, consequences, and prevention.* Symposium conducted at the annual meeting of the American Psychological Association, Honolulu, HI.
- Ball, K.**, Wadley, V. G., Edwards, J.D., Vance, D. E., & Roenker, D.L. (2004). *The impact of cognitive training on mobility-related cognitive and everyday function.* Presented at the annual meeting of the Transportation Research Board, Washington, DC.

- Ball, K.**, Wadley, V., Edwards, J., & Vance, D. (2004, November). Cognitive function and measures of everyday mobility. In S. Tennstedt (Chair), *Results from the ACTIVE study: Understanding the observed training effects*. Symposium conducted at the annual meeting of the Gerontological Society of America, Washington, DC.
- Ball, K.**, Wadley, V.G., Edwards, J.D., Vance, D.E., Roenker, D.L., & Cissell, G.M. (2004). *Increasing older adult mobility through cognitive training*. Poster presented at the Best Practices in Mobility Conference, Detroit, MI.
- Ball, K.**, Wadley, V., Edwards, J., Vance, D., Roenker, D., & Cissell, G. (2004). *Increasing older adults mobility through cognitive training*. Paper presented at the North American Conference on Elderly Mobility: Best Practice from Around the World, Detroit, MI.
- Ball, K.**, Wadley, V. G., Vance, D. E., & Edwards, J. D. (2004, November). *Adapting to declining health and function in older age: Impact on mobility and quality of life*. Paper presented at the annual meeting of the Gerontological Society of America, Washington, DC.
- Ball, K.**, Wadley, V. G., Edwards, J. D., & Vance, D. E. (2004, November). *Cognitive function and measures of everyday mobility*. Paper presented at the annual meeting of the Gerontological Society of America, Washington, DC.
- Ball, K.** (2005, January). *The impact of cognitive interventions on driving competence*. Presented at the White House Listening Session, Washington, D.C.
- Ball, K.**, Wadley, V.G., Edwards, J.D., Vance, D.E., & Roenker, D. L. (2005, January). *Impact of cognitive training on mobility-related cognitive and everyday functions*. Presented at the annual meeting of the Transportation Research Board of the National Academy of Sciences, Washington, DC.
- Ball, K.**, Roenker, D.L., Wadley, V., Cissell, G., Matthews, M., Ball, D., Vance, D., Frankel, M., & McConnell, K. (2005, January). *Longitudinal assessment of older drivers in a DMV setting*. Presented at the annual meeting of the Transportation Research Board of the National Academy of Sciences, Washington, DC.
- Vance, D. E., Sims, R., & **Ball, K.** (2005, May). *Speed of processing training in older veteran drivers*. Paper presented at the meeting of the American Geriatrics Society, Washington, DC.
- Ball, K.**, Roenker, D.L., Wadley, V., Cissell, G., Matthews, M., Ball, D., Vance, D., Frankel, M., & Benz, D. (2005, June). *Longitudinal assessment of older drivers in a DMV setting*. Poster presented at the Third International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Rockport, ME.
- Ball, K.**, Clay, O., Wadley, V., Roth, D., Edwards, J., & Roenker, D. (2005, June). *Predicting driving performance in older adults with the Useful Field of View: A meta-analysis*. Poster presented at the Third International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design, Rockport, ME.
- Dube, T., Roth, D.L., Ball, K., & Roenker, D.L. (2005). *Logistic regression selection methods for automobile crash prediction models*. Poster presented at the Center for Aging Annual Meeting, Birmingham, AL.
- Edwards, J.D., Ross, L.A., Roenker, D.L., & **Ball, K.** (2005, November). *The personal computer version of the Useful Field of View test: Normative data*. Presented at the 58th Annual Scientific Meeting of the Gerontological Society of America, Orlando, FL. (Abstracted, *The Gerontologist*, 45 [Special Issue 2], 259).
- Okonkwo, O., Crowe, M., Batchelder, S., & Wadley, V. (2005, November). Driving avoidance among high-risk older drivers: Initial data from the Senior Driver Research Project. In K. Ball (Chair), *Translational research on aging and mobility: Promising partnerships with industry*. Symposium conducted at the annual meeting of the Gerontological Society of America, Orlando, FL. (Abstracted, *The Gerontologist*, 45 [Special Issue 2], 434).
- Sims, R., Vance, D., & **Ball, K.** (2005, November). *Biomarkers of speed of processing training gains in older adults*. Paper presented at the annual meeting of the Gerontological Society of American, Orlando, FL.

- Ball, K.**, Benz, R., & Vance, D. (2005, November). *Past, present, and future of translational research benefiting older drivers*. Paper presented at the annual meeting of the Gerontological Society of America, Orlando, FL.
- Edwards, J. D., Ross, L. A., Bradley, S. L., Roenker, D. L., & **Ball, K.** (2006, April). *The longitudinal impact of speed of processing training upon driving behavior*. Plenary Session 3 at the Cognitive Aging Conference, Atlanta, GA.
- Ackerman, M. L., Stavrinou, D., Ross, L. A., Edwards, J. D., & **Ball, K.** (2006, May). *Attention-switching as an indicator of driving cessation*. Presented at the 18th Annual Convention of the Association for Psychological Science, New York, NY.
- Ross, L., Clay, O., Edwards, J., Cissell, G., Roenker, D., & **Ball, K.** (2006, September). *Cognitive and physical performance predictors of driving trajectories among older adults*. Poster presented at Center for Aging Annual Meeting, University of Alabama at Birmingham, Birmingham, AL.
- Kvale, E.A., Clay, O.J., Ross, L.A., McGee, J.S., & **Ball, K.** (2006, October). *Speed of processing impairment in older cancer survivors*. Paper presented at the UAB Comprehensive Cancer Center Research Retreat, Birmingham, AL.
- Okonkwo, O., Wadley, V., Griffith, H. R., **Ball, K.**, & Marson, D. (2006, November). *Executive function predicts decrements in financial capacity in mild cognitive impairment*. Presented at the annual meeting of the Gerontological Society of America, Dallas, TX.
- Ross, L., Clay, O., Edwards, J., Cissell, G., Roenker, D., & **Ball, K.** (2006, November). *Predictors of driving trajectories among older adults*. Poster presented at the annual meeting of the Gerontological Society of America, Dallas, TX. (Abstracted, *The Gerontologist*, 46 [Special Issue 1], 433).
- Kvale, E., Clay, O., McGee, J., Ross, L., & Ball, K. (2006, November). *Cognitive and functional impairment in older cancer survivors: An analysis of the ACTIVE database*. Poster presented at the annual meeting of the Gerontological Society of America, Dallas, TX. (Abstracted, *The Gerontologist*, 46 [Special Issue 1], 507).
- Dube, T.J., Roth, D.L., Roenker, D.L., Wadley, V.G., Edwards, J., Cissell, G.M., Viamonte, S.M., & **Ball, K.** (2006, November). *Assessing relationships among performance based cognitive measures and time to motor vehicle crash: A prospective study*. Poster presented at the annual meeting of the Gerontological Society of America, Dallas, TX.
- Kossick, H.A., Cissell, G., Roenker, D., Mathews, M., Sidebottom, L., Bloesch, E., **Ball, K.**, Edwards, J., & Wadley, V. (2006, November). *Mobility and depression: A cross-sectional study*. Poster presented at the annual meeting of the Gerontological Society of America, Dallas, TX.
- Okonkwo, O.C., Wadley, V., Griffith, H.R., **Ball, K.**, & Marson, D. (2006, November). *Executive function predicts decrements in financial capacity in Mild Cognitive Impairment*. Poster presented at the annual meeting of the Gerontological Society of America, Dallas, TX.
- Ackerman, M.L., Ball, K., & Edwards, J. (2007). *Indicators of older adults' self-rated driving ability*. Poster accepted for presentation at the APS Annual Convention, Washington, DC.
- Kvale, E., Clay, O., Ross, L., Ball, K., Edwards, J., & McGee, J. (2007). *Cognitive and functional impairment in older cancer survivors*. Poster accepted for presentation at the AACR Annual Meeting, Los Angeles, CA.
- Lunsman, M., Edwards, J.E., Ross, M.A., Ball, K., & Roenker, D.L. (2007). *The Useful Field of View Test: Performance over time for older adults*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Ross, L.A., **Ball, K.**, Roth, D.L., & Edwards, J.D. (2007). *Speed of processing training: How much is enough?* Presented as *Aging and Speed of Processing* Plenary Session at Cognitive Aging Conference: Down Under: Connecting the Dots. Adelaide, Australia.
- Ross, L.A., Ackerman, M.L., Edwards, J.D., Okonkwo, O., Vance, D., & **Ball, K.** (2007). *Self-rated driving ability and crash risk among older drivers*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.

- Viamonte, S.M., Okonkwo, O., & **Ball K.** (2007). *Comorbid cardiovascular disease is associated with increased driving avoidance among older adults*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Vance, D.E., Lee, S., South, J., **Ball, K.**, & Wadley, V.G. (2007). *The impact of age and HIV status on psychological well-being and vigor*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Wadley, V.G., Okonkwo, O., Crowe, M., Vance, D.E., **Ball, K.**, & Elgin, J.W. (2007). *A controlled study of driving performance in individuals with mild cognitive impairment*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Hill, B.P., Vance, D.E., Okonkwo, O., Wadley, V.G., & **Ball, K.** (2007). *Depressive symptoms mitigate the effects of physical activity on cognition*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Jones, R.N., Marsiske, M., **Ball, K.**, Rebok, G., & Willis, S. (2007). *Performance and functioning among older adults: The ACTIVE study*. Poster presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Vance, D.E., **Ball, K.**, Wadley, V. G., & Crowe, M. (2007, October). *The effects of memory, reasoning, and speed of processing on falls in community-dwelling older adults*. Poster presented at the Center for Aging annual conference, University of Alabama at Birmingham, Birmingham, AL.
- Hill, B., Vance, D. E., Okonkwo, O., Wadley, V. G., & **Ball, K.** (2007, October). *The mitigating effects of depressive symptoms and social support between physical activity and cognitive functioning*. Poster presented at the Center for Aging annual conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Lee, S. K., South, J. L., & **Ball, K.** (2007, November). *Neurocognitive impairment and everyday functioning in older HIV patients*. Invited speaker, annual meeting of the Gerontological Society of America, San Francisco, CA.
- Wadley, V. G., Okonkwo, O., Crowe, M., Vance, D. E., **Ball, K.**, & Elgin, J. W. (2007, November). *A controlled study of driving performance in individuals with mild cognitive impairment*. Paper presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Hill, B., Vance, D. E., Okonkwo, O., Wadley, V. G., & **Ball, K.** (2007, November). *The mitigating effects of depressive symptoms and social support between physical activity and cognitive functioning*. Paper presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Vance, D., Lee, S., South, J., **Ball, K.**, & Wadley, V. (2007, November). *The impact of age and HIV status on psychological well-being and vigor*. Paper presented at annual meeting of the Gerontological Society of America, San Francisco, CA.
- Ross, L., Ackerman, M. L., Edwards, J. D., Okonkwo, O., Vance, D. E., & **Ball, K.** (2007, November). *Self-rated driving ability and crash risk among older drivers*. Paper presented at the annual meeting of the Gerontological Society of America, San Francisco, CA.
- Viamonte, S.M., Benz, R., Vance, D.E., Ross, L.A., Crowe, M., Wadley, V.G., Edwards, J.D., & **Ball, K.** (2008). *A longitudinal evaluation of demographic, functional, and cognitive factors that predict self-reported falls in older adults*. Poster presented at the 2nd International Congress on Gait & Mental Function, Amsterdam, Netherlands.
- Benz, R., Vance, D.E., Ross, L.A., Crowe, M., Wadley, V.G., Edwards, J.D., & **Ball, K.** (2008). *The influence of memory, reasoning, and speed of processing on falling in community-dwelling older adults over two years*. Poster presented at the annual meeting of the Southern Nursing Research Society, Birmingham, AL. (Abstracted, *The Proceedings of the SNRS 2008 Annual Meeting*, 181).
- Ross, L.A., **Ball, K.**, Vance, D.E., Rizzo, M., & Wadley, V. (2008). *Predicting individual physical activities in community-dwelling older adults*. Poster presented at the annual meeting of the Southern Nursing Research Society, Birmingham, AL. (Abstracted, *The Proceedings of the SNRS 2008 Annual Meeting*, 130).

- Ross, L. A., **Ball, K.**, Vance, D. E., Rizzo, M., & Wadley, V. G. (2008, February). *Predicting individual physical activities in community-dwelling older adults*. Paper presented at the annual meeting of the Southern Nursing Research Society, Birmingham, AL.
- Vance, D. E., **Ball, K.**, & Wadley, V. G. (2008, February). *The effects of age and HIV status on vigor and psychological well-being*. Paper presented at the annual meeting of the Southern Nursing Research Society, Birmingham, AL.
- Vance, D. E., **Ball, K.**, Wadley, V. G., & Hill, B. (2008, February). *The mitigating effects of physical activity and depressive symptomatology on cognition in older adults*. Paper presented at the annual meeting of the Southern Nursing Research Society, Birmingham, AL.
- Ball, K.** & Edwards, J.D. (2008). *Can wellness programs help older people maintain independence?* Poster presented at the annual meeting of the National Academies Transportation Research Board, Washington, DC.
- Edwards, J.D. & **Ball, K.** (2008). *The impact of cognitive speed of processing training on everyday abilities*. Invited talk presented at the Healthy Minds Conference, Sarasota, FL.
- Ross, L.A., Edwards, J.D., Roth, D.L., & **Ball K.** (2008). *Reasoning training transfers to driving exposure and difficulty in a sample of older adults: Preliminary results from the ACTIVE trial*. Poster presented at the Cognitive Aging Conference, Atlanta, GA. (In *Abstracts of Paper and Poster Presentations*, 287).
- Ross, L.A., Edwards, J.D., Roth D.L., & **Ball, K.** (2008). *Speed of processing training transfers to driving in a sample of older adults: Preliminary results of the ACTIVE trial*. Presented as Training Plenary Session at the Cognitive Aging Conference, Atlanta, GA. (In *Abstracts of Paper and Poster Presentations*, 289).
- Vance, D. E., Ross, L. A., Crowe, M., Wadley, V. G., Edwards, J. D., & **Ball, K.** (2008, April). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Presented at the Cognitive Aging Conference, Atlanta, GA.
- Ackerman, M. L., Trent, L. K., **Ball, K.**, Crowe, M., Owsley, C., Vance, D. E., & Wadley, V. G. (2008, May). Feedback and subsequent self-restriction among older drivers. Presented at the 20th Annual Convention of the Association for Psychological Science, Chicago, IL.
- Ackerman, M. L., Trent, L. K., Vance, D. E., & **Ball, K.** (2008, May). *Feedback and subsequent self-restriction among older drivers*. Poster presented at annual meeting of the American Psychological Society, Chicago, IL.
- Ball, K.** (2008, June). Evaluation of crash risk among older drivers. Alabama Section and Deep South Section, ITE 36th annual meeting, Gulf Shores, AL.
- Vance, D.E., Ross, L.A., Wadley, V.G., Crowe, M., Edwards, J.D., & **Ball, K.** (2008). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL.
- Vance, D. E., Ross, L., Wadley, V. G., Crowe, M., Edwards, J. D., & **Ball, K.** (2008, August). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Wadley, V. G., & **Ball, K.** (2008, August). Cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Lee, S., South, J., **Ball, K.**, & Wadley, V. (2008, August). The impact of age and HIV status on psychological well-being. Poster presented at the UAB Center for Aging Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Ross, L., Wadley, V. G., Crowe, M., Edwards, J. D., & **Ball, K.** (2008, September). The effects of reasoning, memory, and speed of processing on falling in community-dwelling older adults. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL.

- Vance, D. E., Wadley, V. G., & **Ball, K.** (2008, September). Cognitive and everyday functioning in older and younger adults with and without HIV. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL.
- Vance, D. E., Lee, S., South, J., **Ball, K.**, & Wadley, V. (2008, September). The impact of age and HIV status on psychological well-being. Poster presented at the Alabama State Nurses Association, University of Alabama, Tuscaloosa, AL.
- Ball, K.** (2008, October). *Understanding crash risk in older drivers*. Presented at the Injury Prevention Center, University of Alabama at Birmingham, Birmingham, AL.
- Ball, K.** (2008, November). *Cognitive fitness programs: Impact on driving and everyday function*. Presented at the Center for Brain Health, Dallas, TX.
- Ball, K.**, Ross, L.A., & Edwards, J.D. (2008). The impact of processing speed training on future crashes and driving mobility. In, *The Consequences and Costs of Older Driver Difficulties and the Impact of Cognitive Interventions*. Symposium conducted at the annual meeting of the Gerontological Society of America, National Harbor, MD.
- Wadley, V., Roenker, D., Cissell, G., & **Ball, K.** (2008). *The Senior Driver Research Project: Prediction of at-fault crashes and insurance claims*. Presented at the annual meeting of the Gerontological Society of America, Washington, D.C.
- Ball, K.**, Ross, L., Edwards, J., & McGwin, G. (2008). *The effects of the ACTIVE cognitive training interventions on driving and mobility*. Presented at the annual meeting of the Gerontological Society of America, Washington, D.C.
- Ackerman, M., Okonkwo, O., **Ball, K.**, & Crowe, M. (2008). *Cognition, self-regulation of driving, and reasons for driving reduction among older adults*. Presented at the annual meeting of the Gerontological Society of America, Washington, D.C.
- Viamonte, S., Cuevas, J., Perkins, M., Vance, D., & **Ball, K.** (2008). *The biopsychosocial factors associated with spirituality, aging and HIV*. Presented at the annual meeting of the Gerontological Society of America, Washington, D.C.
- Viamonte, S. M., Cuevas, J. E., Perkins, M. M., Vance, D. E., & **Ball, K.** (2008, November). *The biopsychosocial factors associated with spirituality, aging, and HIV*. Poster presented at the annual meeting of the Gerontological Society of America, American Harbor, MD.
- Vance, D. E., & **Ball, K.** (2009, February). *Does memory, reasoning, and speed of processing affect falling among community-dwelling older adults?* Poster/paper presented at the International Neuropsychological Society, Atlanta, GA.
- Ball, K.** (2009, March). *Cognitive training: Impact on driving and everyday function*. Presented at the Pre-Conference Workshop of the Rottman Conference, Toronto, Ontario.
- Ball, K.** (2009, March). *Rehabilitation of cognitive functioning in the elderly*. Presented at the Rottman Conference, Toronto, Ontario.
- Ball, K.** (2009, September). *Cognitive training: Impact on driving and everyday function*. Presented at the Eye and the Auto Conference, Detroit, MI.
- Vance, D. E., Marceaux, J. C., Fazeli, P., McKie-Bell, P., & **Ball, K.** (2009, October). *Speed of processing training in older and younger adults with HIV: A pilot study*. Poster presented at the Centers for Clinical and Translational Science First Annual Conference, University of Alabama at Birmingham, Birmingham, AL.
- Vance, D. E., Marceaux, J. C., Fazeli, P., McKie-Bell, P., & **Ball, K.** (2009, October). *Speed of processing training in older and younger adults with HIV: A pilot study*. Poster presented at the Alabama State Nurses Association Annual Conference, Florence, AL.
- Ackerman, M.L., Crowe, M., Vance, D.E., Wadley, V.G., & **Ball, K.** (2009, November). *What factors influence the relationship between feedback on cognitive performance and subsequent driving self-regulation?* Presented at the annual meeting of the Gerontological Society of America, Atlanta, GA.
- Sartori, A.C., Crowe, M., Clay, O.J., **Ball, K.**, & Wadley, V.G. (2009, November). *Performance-based measures of cognitive and everyday function in relation to life-space among older adults*. Presented at the annual meeting of the Gerontological Society of America, Atlanta, GA.

- Mathews, M., Roenker, D., Cissell, G., & **Ball, K.** (2009, November). *Predicting age related changes in mobility and driving habits*. Presented at the annual meeting of the Gerontological Society of America, Atlanta, GA.
- Ackerman, M.L., Crowe, M., Wadley, V.G., Vance, D. Edwards, J., & **Ball, K.** (2009, November). *What factors influence the relationship between feedback on cognitive performance and subsequent driving self-regulations?* Presented at the annual meeting of the Gerontological Society of America, Atlanta, GA.
- Vance, D.E., Marceaux, J.C., Fazeli, P., McKie-Bell, P., & **Ball, K. K.** (2010, February) *Improving speed of processing in older and younger adults with HIV: A pilot training study*. Poster/paper presented at the University of Alabama at Birmingham Geriatric Education Conference, Birmingham, AL.
- Ball, K.K.**, Merzenich, M., Wolinsky, F.D., and Zimman, J. (2010, March). *Latest research breakthroughs: How brain science is changing aging*. Presented at the America Society of Aging Conference, Chicago, IL.
- Ball, K.K.** (2010, March) *The Senior Driver Research Project: Translating Research into Practice within the Community*. Presentation at the Aging in America Conference, Chicago, IL.
- Vance, D.E., Marceaux, J.C., Fazeli, P., McKie-Bell, P., & **Ball, K. K.** (2010, April). *Improving speed of processing in adults with HIV: An intervention pilot study*. Poster presented at the annual UAB Comprehensive Nursing Conference, University of Alabama at Birmingham, Birmingham, AL.
- Kaur, J., Clay, O.J., & **Ball, K.** (2010, April). *Cognitive Training Interventions with Older Adults: The PACES Study*. Poster presented at the UAB John Ost Undergraduate Research Competition.
- Vance, D.E., Ross, L.A., Wadley, V. & **Ball, K.** (2010, October) *Cognitive predictors of timed instrumental activities of daily living: A structural equation modeling study*. Poster presented at the UAB Center for Aging Annual Conference, University Of Alabama at Birmingham, Birmingham, AL.
- Ball, K.**, Edwards, J., Ross, L., and McGwin, G. (2011, October) *Cognitive Training: Impact on Mobility and Motor Vehicle Collisions Among Older Drivers*. Presented at the UAB Center for Aging Annual Conference, University Of Alabama at Birmingham, Birmingham, AL.
- Ball, K. K.**, and Ross, L. A. (2010, October) *Translational Research on Aging and Mobility*. Presentation at the Gerontological Society of America Conference, New Orleans, LA.
- Ball, K.K.** (2011, February) *Cognitive Training: Impact on Mobility and Motor Vehicle Collisions Among Older Drivers*. Presentation at the McKnight Board of Director Meeting, Birmingham, AL.
- Ball, K.K.** & Vance, D.E. (2011, June) *Thinking better: Does physical and mental exercise matter?* Paper presented to the UAB Center for Nursing Research Seminar Series, Birmingham, AL.
- Ball, K.** and Vance, D. (2011, June) *Cognitive Training: Impact on Mobility and Everyday Function*. Presentation at the UAB Center for Nursing Research Seminar Series, Birmingham, AL.
- Ross, L.A., Vance, E, **Ball, K.K.**, Cak, L.D., Ackerman, M., Benz, D. & Ball, D. (2011, June) *Translational laboratory measures to real-world outcomes: Application of the UFOV test in an insurance company setting*. International Driving Symposium, Lake Tahoe, CA.
- Fazeli, P.L., Vance, D. E., **Ball, K.K.**, & Ross, L.A. (2011, September) *The effect of computer experience, anxiety, and attitudes on computerized cognitive test performance among older adults*. Paper/poster presented at the 15th Congress of the European Federation of Neurological Societies, Budapest, Hungary.
- Ross, L., Edwards, J., and **Ball, K.** (2011, September) *Does Ten Hours of cognitive Training Maintain Driving in Older Adults?* The Eye and The Auto Conference, Detroit, MI.
- Ball, K.** (2011, September) *Interventions to Reduce Crash Risk in Older Drivers*. The Eye and The Auto Conference, Detroit, MI.
- Ball, K.** (2011, September) *Age-related Cognitive Decline, Cognitive Training, and Transfer to Everyday Performance*. The Entertainment Software and Cognitive Neurotherapeutics Society (ESCoNS) Conference, San Francisco, CA.

- Fazeli, P.L., Vance, D. E., **Ball, K.K.**, & Ross, L.A. (2011, October) *The effect of computer experience, anxiety, and attitudes on computerized cognitive test performance among older adults*. Poster/paper presented at the 2011 annual meeting of the UAB Center for Aging, Birmingham, AL.
- Fazeli, P.L., Vance, D. E., Ross, L.A., and **Ball, K.K.** (2011, November) *The effect of computer experience, anxiety, and attitudes on computerization cognitive test performance among older adults*. Poster/presentations presented at the Gerontological Society of America Conference, Boston, MA.
- Kaur, J., Vance, D. E., Ross, L.A., Wadley, V., Crowe, M.G., and **Ball, K.** (2011, November) *Latent cognitive predictors of timed instrumental activities of daily living in older adults*. Poster presented at the Gerontological Society of America Conference, Boston, MA.
- Vance, D. E., **Ross, L. A.**, Wadley, V. G., Crowe, M. G., & Ball, K. K. *A Structural Equation Modeling of Cognitive Predictors of Timed Instrumental Activities of Daily Living*. Poster to be presented at the 30th International Conference of Psychology, Cape Town, South Africa. July 22-27, 2012.
- Fazeli, P. L., Vance, D. E., **Ball, K. K.**, Crowe, M., Wadley, V., & Ross, L. (2012, November). Cognitive functioning in adults aging with HIV: Exploring cognitive subtypes and influential factors. Poster presented at the 2012 annual meeting of the Gerontological Society of America, San Diego, CA.
- Ross, L. A., Dodson, J., Edwards, J. D., Ackerman, M. L., & **Ball, K.** *Self-rated Driving is Not Related to Driving Safety in Older Adults*. Paper presented at the Gerontological Society of America Conference, San Diego, CA, November 2012.
- Schmidt, E., Ross, L. A., & **Ball, K.** *Predictors of Performance-Based Instrumental Activities of Daily Living*. Poster presented at the Gerontological Society of America Conference, San Diego, CA, November 2012.
- Ball, K.** *Cognitive Training Enhances Real World Cognitive Outcomes*. Symposium conducted at the 7th Annual McKnight Brain Institute Inter-Institutional Convention, Gainesville, FL, April, 2014.
- Ball, K.** *Interventions to Reduce Crash Risk in Older Drivers*. Symposium conducted at the 2014 Annual APA Convention, Washington, DC, August 2014.
- Lassen-Green, C.L., Okonokwo, O., Crowe, M., **Ball, K.**, Marson, D.C., & Wadley, V.G. *Mild Cognitive Impairment and Everyday Function: Longitudinal Changes in Speed versus Performance*. 2015 annual meeting of the International Neuropsychological Society Denver, CO, February, 2015.

CONSULTANT

Current; Visual Awareness Research Group (formerly, Visual Awareness, Incorporated)

Ketron, Inc: Visibility from Vehicles Research contract funded by the National Highway Traffic Safety Administration.

Scientex, Inc: Federal Highway Administration (RFP No. DTFH61-93-R-00074) entitled "Synthesis of Human Factors Research on Older Drivers and Highway Safety.

Scientex, Inc: National Highway Traffic Safety Administration project to develop a "Model Driver Screening and Evaluation Program."

Army Research Labs: Visual Performance Measures in Remote Driving Applications

Johns Hopkins: School of Hygiene and Public Health - Effects of Aging on Driving in Older-Old Adults.

California Dept. of Motor Vehicles

Marinelli & Sauer - Expert Witness (Reducing visibility and crash involvement)

E.E.O.C. - Expert Witness Evaluation of School Bus Drivers and Other Commercial Drivers

Spain & Gillon - Expert Witness (Medical conditions and falls in the elderly)

American Association of Retired Persons

New England Research Institute

TransAnalytics, LLC

KRAFT Cognition Program

PROFESSIONAL SOCIETIES

Sigma Xi, April 1985 - Present

Association for Research in Vision & Ophthalmology, May 1985 - Present

Optical Society of America, July 1986 - Present

Gerontological Society of America, August 1986 - Present

Human Factors, Jan. 1990 - Present

Aerospace Medical Association, Jan. 1993 - Present

American Psychological Association, 1993 - Present

American Psychological Society, 1993 - Present

PROFESSIONAL SERVICE ACTIVITIES

Reviewer for the following journals:

Human Factors

Journal of the American Medical Association

Journal of Gerontology

Psychology & Aging

Psychonomics Bulletin & Review

Vision Research

Neuropsychology

Journal of the American Geriatrics Society

Science

Brain

Reviewer for the following granting agencies:

NIH Distinguished Editor's Panel (2009)

NIH Reviews, HUD-2, VISB, SBIR, Various site visits, Various P01 reviews

EpScore Programs (NSF and NIH)
NSF Ad Hoc Reviewer

Member, UAB Center for Exercise Medicine Steering Committee – May 2014 - Present
Member, External Advisory Committee, Center for Accessibility and Safety for an Aging Population, Florida State University, December 2013 – August 2014
Member, National Academy of Sciences – Committee to study redesign of U.S. currency
Member, UAB Injury Control Research Center, 1998 - Present
Member, Executive Committee of the UAB Center for Aging – 1996 - Present
Member, Steering Committee of the Southeast Center for Excellence in Geriatric Medicine - Present
Member, Steering Committee of the UAB Research on Outcomes Workgroups - Present
Member, Curriculum Committee, UAB Gerontology Education Program, 2000 - Present
Member, UAB Research Compliance Policies and Procedures Development Committee
Editor, Transportation Research Record, 1998 – 2011
Editorial Board, Journal of Gerontology, 2012 - Present

Moderator and Host, Enhancing Mobility in the Elderly, An international conference jointly sponsored by the Center for Research on Applied Gerontology, Center for Aging, Southeast Center of Excellence in Geriatric Medicine, and the UAB School of Medicine, Division of Continuing Medical Education, October, 1999

Mentor of Junior Faculty projects:

Richard Sims, M.D.	School of Medicine, UAB
David Grabowski, Ph.D.	School of Public Health, UAB
Josh Klapow, Ph.D.	School of Social & Behavioral Sciences, UAB
Victor, Mark, M.D.	Rehab Medicine, UAB
Cynthia Brown, M.D.	School of Medicine, UAB
Elizabeth Kvale, M. D.	School of Medicine, UAB
David E. Vance, Ph.D.	School of Nursing, UAB
Lesley A. Ross, Ph.D.	College of Arts & Sciences, UAB
Kristina Visscher, Ph.D.	School of Medicine, UAB
Olivio J. Clay, Ph.D.	College of Arts & Sciences, UAB
Michael G. Crowe, Ph.D.	College of Arts & Sciences, UAB

Pre-Doctoral Trainees: Primary Mentor

1995 – 2001	Edwards, David
1995 – 2000	Edward, Jerri D.
1997 – 2004	Wood, Kimberly
2003 – 2007	Ross, Lesley A.
2003 – 2008	Ackerman, Michelle L.
2004 – 2009	Viamonte, Sarah B.
2005 – 2011	Kennedy, Bridgett Hill
2005 – 2007	South, Jamie
2009 – 2012	Dodson, Joan E.
2008 – 2012	Wheeler, Pariya L. Fazeli
2014 - Present	Pope, Caitlin Northcutt
2014 - Present	Bell, Tyler

Pre-Doctoral Trainees: Mentor

	Lowery, Dan
	Cooke, Patricia Taylor
	Pierce, Chris
	Dowler, Rachel
1996 – 1998	Putzke, John
1997 – 2001	Vance, David E.
1997 – 2001	Wessel-Blaski, Tricia
1998 – 2005	Chopko, Stephanie
1999 – 2004	Darling, Laurie Zebley
2001 – 2005	Barton, Ben
2001 – 2007	Clay, Olivio J.
2001 – 2006	Keener, Leslie
2002 – 2006	Gilbert, Katrina
2002 – 2008	Netson, Kelli
2003 – 2004	Robinson, Christopher
2004 – 2008	Dube, Trina J.
2004 – 2009	Okonkwo, Ozioma
2007 – 2011	Marceaux, Janice
2007- 2009	Webb, Nicole
2008 – 2011	Sartori, Andrea
2008 – 2011	O'Brien, Timothy
2010 – 2013	Kaur, Jaspreet

Postdoctoral Trainees:

(WKU)	Beard, Bettina
(WKU)	White, Duncan
(UAB)	Scilley, Kay
1993 – 1998	Jackson, Gerory
2000 – 2003	Edward, Jerri D.
2001 – 2004	Vance, David E.
2004 – 2006	Crowe, Michael G.
2007	Ross-Meadows, Lesley A.
2008 - 2010	Ackerman, Michelle L.
2015 – Present	Wheeler, Pariya L. Fazeli

Supervision of UAB undergraduate students: Mentor

2014 – Present	Molleti, Radha Ramyasree	Behavioral Neuroscience Honors Program
2014 – Present	Gaini, Meghana Sarawathi	Behavioral Neuroscience Honors Program