

Curriculum Vitae

Alan A. Hartley
Molly Mason Jones Professor of Psychology

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Education

B.A. Wesleyan University (1968)
American Studies (Psychology, Government, & Literature) with Honors
Ph.D. University of California, Irvine (1973)
Psychology

Academic Positions

1977-Present Assistant, Associate, Full Professor of Psychology
Scripps College
1986-1987 Visiting Associate Professor of Cognitive Science
University of California, Irvine
1976-1979 Visiting Assistant Professor of Psychology
University of California, Irvine
1973-1976 Assistant Professor of Psychology
Florida International University
Miami, Florida
1973 Lecturer in Psychology
University of California, Riverside

Honors, Awards, and Fellowships

2014 Professeur Invité, Université de Franche-Comté, Besançon, France
2010 Mary Wig Johnson Faculty Achievement Award (Research)
2010 National Science Foundation Major Research Instrumentation Award
2006 Mary Wig Johnson Faculty Achievement Award (Teaching)
2002-03 American Council on Education Fellow
2001, '03, '09 Professeur Invité, Université de Paris XI (Paris-Sud), Orsay, France
1999 Mary Wig Johnson Faculty Achievement Award (Research)
1998 Mary Wig Johnson Faculty Achievement Award (Teaching)
1996 Mary Wig Johnson Faculty Achievement Award (Research)
1995 Mary Wig Johnson Faculty Achievement Award (Community Service)
1994 Scripps College Sabbatical Research Award
1993 Mary Wig Johnson Faculty Achievement Award (Research)
1993 Deutscher Akademischer Austausch Dienst: Goethe Institute Scholarship
1992 Mary Wig Johnson Faculty Achievement Award (Teaching)
1991 James S. McDonnell Foundation Institute in Cognitive Neuroscience, Dartmouth Medical School
1987-1988 National Institute on Aging: National Research Service Award
Senior Postdoctoral Fellowship (Georgia Institute of Technology)

Professional Affiliations

American Psychological Association
Fellow, Division 20: Adult Development and Aging
Fellow, Division 3: Experimental Psychology
Cognitive Neuroscience Society
Psychonomic Society
Sigma Xi

Courses Taught (* taught recently)

Psychology

Adult Development and Aging
Advanced General Psychology with Laboratory
Lecture: Introduction to Scientific Psychology
Laboratory: Methods of Psychological Research
Advanced Statistics
I. ANOVA and Regression*
II. Structural Equation Modeling*
Cognition/Cognitive Processes Laboratory
Cognitive Neuroscience
Cognitive Science
Experimental Design (Graduate)
Experimental Psychology
Human Conceptual Behavior
Human Problem Solving
Introduction to Psychology
Judgment and Decision Making
Motivation and Emotion
Perception and Cognition
Psycholinguistics
Psychological Scaling (Graduate)
Psychological Statistics*
Psychology of Creativity
Research Design*
Statistics and Probability for the Social Sciences

Mathematics, Computing, and Computer Science

Computers, Computing and Society
Computers in Psychology
The Human Uses of Computer Technology
Programming and Problem Solving
Psychology and Software Engineering
Social Statistics

Humanities and the Interdisciplinary Core Program

Coming of Age in America (CORE III)
Science and Human Values
The Contemporary World (1917 to the Present)
New Liberal Arts Clinic (in conjunction with Douglas Aircraft Corporation)

Sponsored Research

1974-1976	SMART (Simulation Manager and Research Trainer): Exxon Education Foundation
1974-1975	Cognitive Processes in Aging (with J.T. Hartley & J.F. Parker): FIU Foundation
1978-1985	Adult Age Differences in Cognitive Processes: National Institute on Aging
1980-1981	Development of a Liberal Arts Course in Computer Science (with J. Ferling & P. Nardi): Mellon Foundation
1981-1983	Aging and the Acquisition of Expertise (with J.T. Hartley): The Spencer Foundation
1983-1984	Development of an Intermediate-level Liberal Arts Course in Computer Science (with P. Nardi): Mellon Foundation
1984-1992	Scripps College Faculty Research Awards for the study of aging and attention.
1992-1995	Sources of Age Differences in Speed of Response: National Institute on Aging
1995-2000	Aging and Working Memory--Neuroimaging and Behavioral Studies: National Institute on Aging (with J. Jonides & E. Smith)
1995-1996	Aging and Pilot Performance: Federal Aviation Administration (with G. Kay)
2001-2003	Adult Age Differences in Managing Multiple Tasks: National Institute on Aging
2010-2013	A High-density Electroencephalography Laboratory for Undergraduate Education (with C. Reed & M. Spezio)

Consultant

Acta Psychologica: Ad hoc reviewer
Aging, Neuropsychology, and Cognition: Ad hoc reviewer
American Psychological Association Division 20 Program Committee
American Psychological Association: Reviewer for Publication Manual of the American Psychological Association (1972)
Brain and Cognition: Ad hoc reviewer
Canadian Journal of Psychology: Ad hoc reviewer
Developmental Psychology: Ad hoc reviewer
Journal of Gerontology: Consulting editor
Journal(s) of Experimental Psychology: Ad hoc reviewer
Journal of Personality Research
Library of Congress
Los Angeles Fire Department Wellness Advisory Board
McDonnell Douglas (Boeing) Corporation
National Science Foundation: Ad hoc reviewer
Neuropsychology: Ad hoc reviewer
Nissan of North America
Perception & Psychophysics: Ad hoc reviewer
Psychological Science: Ad hoc reviewer
Psychology and Aging: Consulting editor
Psychonomic Bulletin & Review: Ad hoc reviewer
PLoS (Public Library of Science): Ad hoc reviewer
Social Security Administration
Swiss National Science Foundation: Ad hoc reviewer

Publications, Papers, and Presentations

Professional Journal Articles (Student co-authors are bolded.)

- Hartley, A.A. (1974). Acquisition and integration of information in the complete learning of complex concepts. (Ph.D. dissertation, University of California, Irvine, December, 1973.) *Dissertation Abstracts International*, 35, 542B, University Microfilms No. 74-13,838.
- Hartley, A.A. (1975). A procedure and a program for the trial-by-trial identification of hypotheses in concept learning. *Behavior Research Methods and Instrumentation*, 7, 51-53.

- Hartley, A.A. & Hartley, J.T. (1976). Predicting performance in the basic research methods course in psychology. *Educational and Psychological Measurement*, 36, 449-452.
- Hartley, A.A. (1977). Mental measurement in the magnitude estimation of length. *Journal of Experimental Psychology: Human Perception and Performance*, 3, 622-628.
- Hartley, A.A., **Fisher, L.A.**, & Hartley, J.T. (1977). Teaching the arts of psychological research. *Teaching of Psychology*, 4, 202-204.
- Hartley, A.A. (1978). The major-axis effect: Axes of bilateral symmetry or loci of neural interaction? *Perception & Psychophysics*, 23, 537-541.
- Jacewicz, M.M. & Hartley, A.A. (1979). Rotation of mental images by young and old college students. *Journal of Gerontology*, 34, 396-403.
- Hartley, A.A. & Smith, D.G. (1979). Vitamin C and the common cold: A simulation for teaching methods of research. *Teaching of Psychology*, 6, 235-237.
- Hartley, A.A. (1979). Major axes of stimulus figures do not account for dot displacements. *Perception & Psychophysics*, 26, 331-332.
- Hartley, A.A. (1981). Mental measurement of line length: The role of the standard. *Journal of Experimental Psychology: Human Perception and Performance*, 7, 309-316.
- Hartley, A.A. (1981). Adult age differences in deductive reasoning processes. *Journal of Gerontology*, 36, 700-706.
- Hartley, A.A. (1982). The roles of axes of symmetry in orientation illusions. *Perception & Psychophysics*, 31, 367-375.
- Hartley, A.A., & **Anderson, J.W.** (1983). Task complexity and problem-solving performances in younger and older adults. *Journal of Gerontology*, 38, 72-77.
- Hartley, A.A. & **Anderson, J.W.** (1983). Task complexity, problem representation, and problem-solving performance by younger and older adults. *Journal of Gerontology*, 38, 78-80.
- Harber, K.D.**, & Hartley, A.A. (1983). Meaningfulness and problem-solving performance by younger and older adults. *Experimental Aging Research*, 9, 93-95.
- Hartley, A.A. & Hartley, J.T. (1984). Performance changes in champion swimmers aged 30 to 84 years. *Experimental Aging Research*, 10, 141-147.
- Hartley, A.A. & Hartley, J.T. (1984). In response to Stones and Kozma: Absolute and relative changes in champion swimming performances. *Experimental Aging Research*, 10, 151-153.
- Hartley, A.A. & Hartley, J.T., & **Johnson, S.A.** (1984). The older adult as computer user. In P.K. Robinson, J. Livingston, & J.E. Birren (Eds.), *Aging and technological advances*. New York: Plenum Press.
- Hartley, A.A. & **Anderson, J.W.** (1986). Instruction, induction, generation, and evaluation of strategies for solving search problems. *Journal of Gerontology*, 41, 650-658.
- Hartley, A.A. & Hartley, J.T. (1986). Age differences and changes in sprint swimming performances of masters athletes. *Experimental Aging Research*, 12, 65-70.
- Anderson, J.W.**, Hartley, A.A., **Bye, R.L.**, **Harber, K.D.**, & **White, O.L.** (1986). Cognitive training using self-discovery methods. *Educational Gerontology*, 12, 159-172.
- Jacewicz, M.M. & Hartley, A.A. (1987). Age differences in the speed of cognitive operations: Resolution of inconsistent findings. *Journal of Gerontology*, 42, 86-88.
- Hartley, J.T. & Hartley, A.A. (1988). Acquisition and application of expertise at computer text editing by younger and older adults. In M.M. Gruneberg, P.E. Morris, & R.N. Sykes (Eds.), *Practical aspects of memory: Current research and issues*, (Vol. 2). Chichester, U.K.: John Wiley.
- Clarkson-Smith, L.**, & Hartley, A.A. (1989). Relationships between physical exercise and cognitive abilities in older adults. *Psychology and Aging*, 4, 183-189.
- Hartley, A.A. & **Kieley, J.M.** & **Slabach, E.** (1990). Age differences and similarities in the effects of cues and prompts. *Journal of Experimental Psychology: Human Perception and Performance*, 16, 523-537.
- Hartley, A.A. (1990). The cognitive ecology of problem solving. In L.W. Poon, D.C. Rubin, & G.A. Wilson (Eds.), *Everyday cognition in adulthood and late life*, (pp. 300-329). Cambridge, U.K.: Cambridge University Press.
- Clarkson-Smith, L.**, & Hartley, A.A. (1990). Structural equation models of relationships between exercise and cognitive abilities. *Psychology and Aging*, 5, 437-446.
- Clarkson-Smith, L.**, & Hartley, A.A. (1990). The game of bridge as an exercise in working memory. *Journal of Gerontology: Psychological Science*, 45, P233-P238.
- Hartley, A.A., & **McKenzie, C.R.M.** (1991). Attentional and perceptual contributions to the identification of extrafoveal stimuli: Adult age differences. *Journal of Gerontology: Psychological Science*, 46, P202-

- LaBerge, D., Brown, V., Carter, M., Bash, D., & Hartley, A. (1991). Reducing the effects of adjacent distractors by narrowing attention. *Journal of Experimental Psychology: Human Perception and Performance*, *17*, 65-76.
- Hartley, A. A., **Kieley, J., & McKenzie, C. R. M.** (1992). Allocation of attention in younger and older adults. *Perception & Psychophysics*, *52*, 175-185.
- Hartley, A. A. (1992). Attention. In F. I. M. Craik & T. A. Salthouse (Eds.), *Handbook of Aging and Cognition* (pp. 3-49). Hillsdale, NJ: Erlbaum.
- Hartley, A. A. (1992). In search of a theory of the aging of intelligence (A review of T. A. Salthouse, *Theoretical perspectives on cognitive aging*). *Contemporary Psychology*, *37*, 1009-1010.
- Hartley, A. A. (1993). Evidence for the selective preservation of selective attention in old age. *Psychology and Aging*, *8*, 371-379.
- Hartley, A. A., & **Kieley, J. M.** (1995). Adult age differences in the inhibition of return of visual attention. *Psychology and Aging*, *10*, 670-683.
- Hartley, A. A. (1995; revised, 2000). Attention. In G. L. Maddox (Ed.), *Encyclopedia of Aging*. New York: Springer.
- Hartley, A. A. (1996). Brain: Cognitive function and age-related changes. *1997 Yearbook of Science and Technology*. New York: McGraw-Hill.
- Kieley, J. M., & Hartley, A. A.** (1997). Age-related equivalence of identity suppression in the Stroop color-word task. *Psychology and Aging*, *12*, 22-29.
- Hartley, A. A., & **Little, D. M.** (1999). Age-related differences and similarities in dual-task interference. *Journal of Experimental Psychology: General*, *128*, 416-449.
- Little, D. M., & Hartley, A. A.** (2000). Further evidence that negative priming using the Stroop color-word task is equivalent in younger and older adults. *Psychology and Aging*, *15*, 9-17.
- Reuter-Lorenz, P. A., Jonides, J., Smith, E. E., Hartley, A., Miller, A., Marshuetz, C., & Koeppe, R. A. (2000). Age differences in the frontal lateralization of verbal and spatial working memory revealed by PET. *Journal of Cognitive Neuroscience*, *12*, 174-187.
- Jonides, J., Smith, E. E., Reuter-Lorenz, P., Koeppe, R. A., & Hartley, A. (2000). Age differences in behavior and PET activation reveal differences in interference resolution in verbal working memory. *Journal of Cognitive Neuroscience*, *12*, 188-196.
- Hartley, A. A., & **Speer, N. K.** (2000). Locating and fractionating working memory using neuroimaging: Storage, maintenance, and executive functions. *Microscopy Research and Technique*, *51*, 45-53.
- Hartley, A. A., **Speer, N. K.**, Jonides, J., Reuter-Lorenz, P. A., & Smith, E. E. (2001). Is the dissociability of working memory systems for name identity, visual-object identity, and spatial location maintained in old age? *Neuropsychology*, *15*, 3-17.
- Hartley, A. A. (2001). Age differences in dual-task interference are localized to response generation processes. *Psychology and Aging*, *16*, 47-54.
- Reuter-Lorenz, P. A., Marshuetz, C., Jonides, J., Smith, E. E., Hartley, A., & Koeppe, R. (2001). Neurocognitive ageing of storage and executive processes. *European Journal of Cognitive Psychology*, *13*, 257-278.
- Maquestiaux, F.**, Hartley, A. A., & Bertsch, J. (2004). Can practice overcome age-related differences in the psychological refractory period effect? *Psychology and Aging*, *19*, 649-668.
- Hartley, A. A. (2006). The changing role of the speed of processing construct in the cognitive psychology of human aging. In J.E. Birren & K. W. Schaie (Eds.), *Handbook of the psychology of aging* (pp. 183-208). Amsterdam: Elsevier.
- Hartley, A. A., & **Maquestiaux, F.** (2007). Success and failure at dual-task coordination by younger and older adults. *Psychology and Aging*, *22*, 215-222.
- Maquestiaux, F.**, Laguë-Beauvais, M., Ruthruff, E., Hartley, A., & Bherer, L. (2010). Learning to bypass the central bottleneck: Declining automaticity with advancing age. *Psychology and Aging*, *25*(1), 177-192. doi:10.1037/a0017122
- Hartley, A. A., **Maquestiaux, F., & Silverman-Butts, N.** (2011). A demonstration of dual-task performance without interference in some older adults. *Psychology and Aging*, doi:10.1037/a0021497
- Hartley, A. A., Jonides, J., Sylvester, C-Y. (2011). Dual-task processing in younger and older adults: Similarities and differences revealed by fMRI. *Brain and Cognition*, *75*, 281-291.
- Hartley, A. A., **Little, D. M., Speer, N. K., & Jonides, J.** (2011). Input, retention, and output factors affecting adult age differences in visuospatial short-term memory. *Journal of Gerontology: Psychological Sciences*, *66*, 435-443.

- Chauvel, G., **Maquestiaux, F.**, Hartley, A. A., Joubert, S., Didierjean, A., & Masters, R. W. (2012). Age effects shrink when motor learning is predominantly supported by nondeclarative, automatic memory processes: Evidence from golf putting. *The Quarterly Journal of Experimental Psychology*, *65*(1), 25-38.
- Maillot, P.**, Perrot, A., & Hartley, A. (2012). Effects of interactive physical-activity video-game training on physical and cognitive function in older adults. *Psychology and Aging*, *27*(3), 589-600.
- Maillot, P.**, Perrot, A., & Hartley, A. (2012). Rôle des jeux vidéo sur le vieillissement cognitif : revue de littérature. *Gériatrie Psychologie Neuropsychiatrie du Vieillissement*, *10*, 83-94. doi : 10.1684/pnv.2012.0317
- Hartley, A. A., **Maquestiaux, F.**, **Brooks, R.**, **Festini, S.**, & **Frazier, K.** (2012) Electrodermal responses to sources of dual-task interference. *Cognitive, Affective, & Behavioral Neuroscience*, *12*, 543-556.
- Chauvel, G., **Maquestiaux, F.**, Ruthruff, E., Didierjean, A., & Hartley, A. (2013). Novice motor performance: Better not verbalize. *Psychonomic Bulletin & Review*. *20*(1), 177-183. doi:10.3758/s13423-012-0331-x
- Festini, S.B.**, Hartley, A. A., Tauber, S. K., & Rhodes, M. G. (2013). Memory, *21*(6), 657-667. doi:10.1080/09658211.2012.747613
- Hartley, A. A. (2013). Age and method variance in measures of speed and working memory. *Psychology and Aging*, *28*(2), 522-528. doi:10.1037/a0032176
- Maquestiaux, F.**, Didierjean, A., Ruthruff, E., Chauvel, G., & Hartley, A. A. (2013). Lost ability to automatize task performance in old age. *Psychonomic Bulletin & Review*, *20*, 1206-1212. doi: 10.3758/s13423-013-0438-8
- Reed, C. L., Leland, D. S., Brekke, B., & Hartley, A. (2013). Attention's grasp: early and late hand proximity effects on visual evoked potentials. *Frontiers in Psychology*, *4*, 420. doi:10.3389/fpsyg.2013.00420
- Didierjean, A., **Maquestiaux, F.**, Vieillard, S., Ruthruff, E., & Hartley, A. (2014). Sexual distractors boost younger and older adults' visual search RSVP performance. *British Journal Of Psychology*, *105*(2), 162-172. doi:10.1111/bjop.12023
- Maillot, P.**, Perrot, A., & Hartley, A. (In press). Exergame training to improve balance, functional fitness and health-related quality of life in the elderly. *Journal of Aging and Physical Activity*.
- Maillot, P.**, Perrot, A., Hartley, A., & Do, M-C. (In press). The braking force in walking: Age-related differences and improvement in older adults with exergame training. *Journal of Aging and Physical Activity*.
- Hartley, A. A., **Ravich, Z.**, **Stringer, S.**, & **Wiley, K.** (In press). An age-related dissociation of short-term memory for facial identity and facial emotional expression. *Journal of Gerontology: Psychological Sciences*
- Deroche, T., Castanier, C., Perrot, A., & Hartley A. (In press.) Joint attention is slowed in older adults. *Experimental Aging Research*.

Conference Papers

- Rule and non-rule solutions in concept learning using a selection procedure.* Presented at the Western Psychological Association meetings, Anaheim, California, 1973.
- Information extraction and utilization in complete concept learning.* Presented at the Southeastern Psychological Association meetings, Miami, Florida, May, 1974.
- Perceived line length as a function of orientation of the standard and comparison.* Presented at the Southeastern Psychological Association meetings, Atlanta, Georgia, March, 1975.
- Reaction time to rotated letters as a function of age and visual field.* Presented at the Southeastern Psychological Association meetings, New Orleans, Louisiana, March, 1976.
- Rotation of mental images by younger and older college students.* Presented at the Midwestern Psychological Association meetings, Chicago, Illinois, May, 1978 (with M.M. Jacewicz).
- Age differences in consumer decision making.* Presented at the Gerontological Association Annual Scientific Meeting, San Diego, California, November, 1980.
- Telling time from clockfaces.* Presented at the Psychonomic Society meetings, Philadelphia, Pennsylvania, November, 1980.
- Age differences in judgment, choice, and reasoning.* Presented at the Claremont Conference on Applied Cognitive Psychology, Claremont, California, April, 1982.
- Working memory and problem solving.* Presented at the Gerontological Society Annual Scientific Meeting, Boston, Massachusetts, November, 1982.
- The older adult as computer user.* Presented at the NATO Symposium on Aging and Technological Change, University of Southern California, Los Angeles, California, August, 1983.
- Microcomputer use in cognitive gerontology.* Presented at the American Psychological association meeting, Anaheim, California, August, 1983.

Aging and the processes of problem solving. Presented at the Gerontological Society Annual Scientific Meeting, San Francisco, California, November, 1983 (with J.T. Hartley).

Cognitive training using self-discovery methods. Presented at the Gerontological Society Annual Scientific meeting, San Francisco, California, November, 1983 (with J. Anderson, R. Bye, K. Harber, and O. White).

Time course and correlates of shift of set in young and elderly adults. Presented at the Western Psychological Association meeting, Los Angeles, California, April, 1984 (with E. Slabach).

The cognitive ecology of problem solving. Presented at the Third George A. Talland Memorial Conference on Memory and Aging, Cape Cod, Massachusetts, March, 1985.

Dividing Attention. Presented at the First Cognitive Aging Conference, Atlanta, GA, May, 1986.

Cognitive flexibility in younger and older adults. Presented at the American Psychological Association meeting, Washington, D.C., August, 1986 (with E. Slabach).

Aging and the spread of visual attention. Presented at the Psychonomic Society meeting, New Orleans, LA, November, 1986 (with J.M. Kieley).

Acquisition and application of expertise at computer text editing by younger and older adults. Presented at the Second International Conference on Practical Aspects of Memory, Swansea, Wales, U.K., August, 1987 (with J.T. Hartley).

Aging and the allocation of visual attention. Presented at a workshop on the Aging of Attention, National Institute on Aging, Bethesda, MD, November, 1987.

Aging and visual attention. Presented at the Psychonomic Society meeting, Seattle, WA, November, 1987 (with J.M. Kieley and C.R.M. McKenzie).

Exercise and cognitive function. Presented at the Georgia Consortium on Aging meeting, Atlanta, GA, February, 1988 (with L. Clarkson-Smith).

Aging and sensitization of the visual field. Presented at the Second Cognitive Aging Conference, Atlanta, GA, April, 1988 (with J.M. Kieley).

Exercising your mind and minding your exercise. Keynote address presented at the Georgia Gerontological Society meeting, Atlanta, GA, April, 1988. Also presented to the PEACH (Physical Evaluation and Cardiac Health) Program, Georgia Institute of Technology, Atlanta, GA, May, 1988.

Exercise, age, and cognitive function. Presented to the Exercise Physiology Colloquium, University of Georgia, Athens, GA, May, 1988.

Adult age similarities in the spread of visual attention. Presented at the Psychonomic Society meeting, Chicago, IL, November, 1988 (with J.M. Kieley).

Aging and effects of central processing load on spatial attention. Presented at the Psychonomic Society meeting, Atlanta, GA, November, 1989 (with J.M. Kieley).

Early versus late inhibitory mechanisms and aging. Presented at the Psychonomic Society meeting, New Orleans, LA, November, 1990 (with J.M. Kieley).

Failure to find generally reduced inhibition in old age. Presented at the Psychonomic Society meeting, San Francisco, CA, November, 1991 (with J.M. Kieley).

Evidence for the selective preservation of spatial selective attention. Presented at the Fourth Cognitive Aging Conference, Atlanta, GA, April, 1992.

Aging and attention: I. Neuropsychological tests of frontal-lobe function. Presented at the Western Psychology Conference, Santa Clara University, Santa Clara, CA, April, 1993 (with J.V. Teal and D. Dean).

Aging and attention: II. Neuropsychological tests of parietal-lobe function. Presented at the Western Psychology Conference, Santa Clara University, Santa Clara, CA, April, 1993 (with D. Dean and J.V. Teal).

It's what's up front that counts: Speed, memory, and attention as predictors of age-related variance in performance on neuropsychological tests sensitive to frontal lobe damage. Presented at the Fifth Cognitive Aging Conference, Atlanta, GA, April, 1994 (with J.V. Teal).

Location suppression and inhibition of return are independent in young and elderly adults. Presented at the Psychonomic Society meeting, Los Angeles, CA, November, 1995 (with J. McDowd).

Putting a stop to assertions that older adults have difficulty inhibiting a response. Presented at the Sixth Cognitive Aging Conference, Atlanta, GA, April, 1996 (with J.T. Hartley).

Localizing the age differences in dual task interference. Presented at the Sixth Cognitive Aging Conference, Atlanta, GA, April, 1996.

Effects of aging on computerized and conventional cognitive test performance in healthy aviators. Presented at the International Neuropsychological Society meeting, Chicago, IL, February, 1996 (with C.A. Eberle, G.C. Kay, & R. Billingsley).

fMRI of working memory: A case study of signal enhancement with D-amphetamine treatment following head injury.

- Presented at the International Neuropsychological Society meeting, Chicago, IL, February, 1996 (with V.N. Starbuck, R.C. Platenberg, J. Bleiberg, C.A. Eberle, C.S. Lin, & K. Ward).
- Aging, Working Memory, and Attention: Evidence from Neuroimaging.* Presented at the Western Attention Conference, Claremont, CA, June, 1996 (with J. Jonides, P. Reuter-Lorenz, & E.E. Smith).
- Impaired Negative Priming in Older Adults? Not in the Stroop Task.* Presented at the American Psychological Society meeting, San Francisco, CA, July, 1996 (with D. Little).
- Do Age-related Impairments in Specific Working Memory Systems Result in Greater Reliance on the Central Executive?* Presented at the Cognitive Neuroscience Society meeting, San Francisco, CA, April, 1998 (with N. Speer, J. Jonides, P. Reuter-Lorenz, E.E. Smith, C. Marshuetz, A. Cianciolo, M. Kia, & R. Koeppel).
- Individual Differences in Working Memories for Verbal Identity and Spatial Location.* Presented at the Seventh Cognitive Aging Conference, Atlanta, GA, April, 1998 (with J. Jonides, P. Reuter-Lorenz, E.E. Smith, & D.M. Little).
- Age-related Dissociation of Working Memories for Name Identity and Spatial Location.* Presented at the Seventh Cognitive Aging Conference, Atlanta, GA, April, 1998 (with M.S. Gabston, D.M. Little, N.K. Speer, & M.R. Davis).
- Age-related Dissociations and Associations of Working Memories for Name and Object Identity.* Presented at the Seventh Cognitive Aging Conference, Atlanta, GA, April, 1998 (with N.K. Speer, M.R. Davis, M.S. Gabston, & Y. Rodriguez).
- Are Older Adults Afraid of Mice? No, But There are Age Differences in Working Memory for Spatial Location.* Presented at the Seventh Cognitive Aging Conference, Atlanta, GA, April, 1998 (with Y. Rodriguez, M.S. Gabston, M.R. Davis, & N.K. Speer).
- Further Evidence for an Age-related Dissociation of Interference and Identity Suppression.* Presented at the Seventh Cognitive Aging Conference, Atlanta, GA, April, 1998 (with D.M. Little).
- Age-related Changes in the Neural Mechanisms of Spatial and Verbal Working Memory.* Presented at the Society for Neuroscience, Los Angeles, November, 1998 (with J. Jonides, P.A. Reuter-Lorenz, E.E. Smith, A.C. Miller, C. Marshuetz, & B. Koeppel).
- Age-related Dissociations of Working Memory for Name Identity, Object Identity, and Spatial Location.* Presented at the Cognitive Neuroscience Society, Washington, D.C., April, 1999 (with N. Speer, M. S. Gabston, J. Jonides, P. Reuter-Lorenz, & E. E. Smith)
- Age Differences in Dual-Task Interference Are Localized to Response Generation Processes.* Presented at the Eighth Cognitive Aging Conference, Atlanta, GA, April, 2000.
- Age and Attention to Higher-level Processing: Who is most affected, the executive or the worker?* Presented at the International Congress of Gerontology, Vancouver, BC, Canada, July 2001.
- Maintaining Multiple Working Memories: Spared and Impaired Abilities.* Presented at the Ninth Cognitive Aging Conference, Atlanta, GA, April, 2002.
- Extensive training produces virtually perfect dual-task timesharing in young but not in elderly adults.* Presented at the Tenth Cognitive Aging Conference, Atlanta, GA, April, 2004.
- Dual Task Processing, Attentional Blink, and Task Switching: Fundamentally the same or fundamentally different?.* Presented at the Eleventh Cognitive Aging Conference, Atlanta, GA, April, 2006.
- Reduced ability to bypass the central bottleneck in older adults.* Presented at the Experimental Psychology Society Meeting, Edinburgh, Scotland, July, 2007. (with F. Maquestiaux, M. Laguë-Beauvais, L. Bherer, & E. Ruthruff)
- Can older adults Stroop the dual task bottleneck?* Presented at the Twelfth Cognitive Aging Conference, Atlanta, GA, April, 2008 (with **P. Krimmer** & **K. Frazier**).
- L'effet Stroop contamine-t-il le goulot d'étranglement central en situation de double tâche chez des adultes jeunes et âgés ?* Presented at the Xème Colloque International sur le Vieillissement Cognitif, Paris, France, September, 2008 (with F. Maquestiaux).
- Searching for Bottleneck Bypassing: Needle in a Haystack?* Presented at the Psychonomic Society Meeting, Seattle, WA, November, 2011 (with François Maquestiaux, Eric Ruthruff, & André Didierjean)

Service

Appointment, Promotion, and Tenure Committee (Multiple terms of service, Chair, 1997-98, 2007-08)
Computer Oversight and Advisory Committees
All-Claremont Advisory Committee on Academic Computing
Intercollegiate Committee on Academic Computing
(NSF-CAUSE) Four-college Computing Committee
NSF-CAUSE Computer Selection Committee
Sloan Foundation Grant Committee on Academic Computing (Chair)
Scripps Academic Computing Advisory Committee
College Council (Faculty Representative)
Committee on Human Participants in Research (Chair)
Economics Program Design Committee (Chair)
Faculty Achievement Awards Selection Committee
Faculty Executive Committee (Vice Chair, 1988-89; Chair, 1989-90)
Academic Policy Subcommittee (Chair)
Administrative Budget and Planning Committee
Trustee Budget Committee
Trustee Educational Policy Committee
Financial Planning and Priorities Task Force
Joint Science Program Appointment, Promotion, and Tenure Committee
Joint Science Program Ad Hoc Personnel Review Committee
Mathematics & Computer Science Program Design Committee (Chair)
Neuroscience Program Design Committee
Political Science Program Design Committee (Chair)
Psychology Department Chair (Multiple terms of service)
Scripps Teaching and Learning Assessment Project (1998-2001)
WASC Reaccreditation Self-study Committee (Chair, Subcommittee on Curriculum and Staffing)
Search Committees (other than Psychology)
 Anthropology/Women's Studies
 Chicano Studies
 Claremont University Center Provost
 Dean of Faculty (elected)
 Drama
 Economics (Chair)
 German
 Italian
 Alexander Chair in Humanities
 MacArthur Chair in Computer Science
 Mathematics (Chair)
 Political Science (Chair)
 Studio Art
Working Group on the Evaluation of Teaching
Teach Load Advisory Committee