

Curriculum Vitae

**TIMOTHY A. SALTHOUSE**

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DEGREES:

B.A. (High Honors), 1969, University of California, Santa Barbara (Major: Psychology)  
M.S., 1971, University of Michigan (Major: Experimental Psychology)  
Ph.D., 1974, University of Michigan (Major: Experimental Psychology)

EXPERIENCE:

1974 (Summer) - Summer Institute Participant, Interdisciplinary Institute in Reading and Child Development, University of Delaware, Newark, Delaware.  
1974-1976 - Post-Doctoral Research Fellow, Aging and Development Program, Department of Psychology, Washington University, St. Louis, Missouri.  
1980 (Summer) - Summer Institute Participant, Life-Span Human Development: Interdisciplinary Perspectives, Center for Advanced Study in the Behavioral Sciences, Stanford, California.  
1982-1983 - Fellow, Andrew Norman Institute for Advanced Study in Gerontology and Geriatrics, Gerontology Center, University of Southern California, Los Angeles, California.  
1985 (Spring) - Visiting Scientist, Max Planck Institute for Human Development and Education, West Berlin.  
1987 (Spring) - Visiting Scientist, Max Planck Institute for Human Development and Education, West Berlin.  
1990 (Winter) - Visiting Scientist, Max Planck Institute for Human Development and Education, West Berlin.  
1995 (Spring) - Visiting Scientist, Max Planck Institute for Human Development and Education, Berlin.  
1976-1986 - Assistant Professor, Associate Professor, Professor, Department of Psychology, University of Missouri, Columbia, Missouri.  
1986-1997 - Professor, School of Psychology, Georgia Institute of Technology, Atlanta, Georgia.  
1997-2000 - Regents Professor, School of Psychology, Georgia Institute of Technology, Atlanta, Georgia.  
1998-1999 - Visiting Scholar, Department of Psychology, University of Michigan, Ann Arbor, Michigan.  
2000 - Brown-Forman Professor, Department of Psychology, University of Virginia, Charlottesville, Virginia  
2003 (Spring) - Norman Munn Visiting Scholar, School of Psychology, Flinders University, Adelaide, South Australia.  
2004-2006 - Director, University of Virginia Institute on Aging.  
2009-2010 - Russell Sage Visiting Scholar, Russell Sage Foundation, New York City.

## HONORS and AWARDS

Phi Beta Kappa (1969)  
 Outstanding Psychology Undergraduate, University of California, Santa Barbara (1969)  
 N.I.H. Research Career Development Award [RCDA] (1983-1988)  
 N.I.H. Method to Extend Research in Time [MERIT] Award (1989-1999)  
 Fellow, American Psychological Association, Divisions 3 and 20  
 Fellow, American Psychological Society  
 Fellow, Gerontological Society of America  
 Fellow, American Association for the Advancement of Science  
 Fellow, Society of Experimental Psychologists  
 A.P.A. Division 20 Distinguished Research Contribution Award (1995)  
 Georgia Institute of Technology Award for Outstanding Faculty Research Author (1997)  
 William James Fellow, American Psychological Society (1998)  
 N.I.H. Method to Extend Research in Time [MERIT] Award (2005-2015)  
 ISI Highly Cited Researcher (2006)  
 International Society for Intelligence Research Lifetime Achievement Award (2012)

## PUBLICATIONS:

## (BOOKS)

Salthouse, T.A. (1982). Adult Cognition: An Experimental Psychology of Human Aging. New York: Springer-Verlag.  
 Salthouse, T.A. (1985). A Theory of Cognitive Aging. Amsterdam: North-Holland.  
 Salthouse, T.A. (1991). Theoretical Perspectives on Cognitive Aging. Hillsdale, N.J.: Lawrence Erlbaum Associates.  
 Salthouse, T.A. (1992). Mechanisms of Age-Cognition Relations in Adulthood. Hillsdale, N.J.: Lawrence Erlbaum Associates.  
 Craik, F.I.M. & Salthouse, T.A. (Editors) (1992). Handbook of Aging and Cognition. Hillsdale, N.J.: Lawrence Erlbaum Associates.  
 Lawton, M.P. & Salthouse, T.A. (Editors) (1998). Essential Papers on the Psychology of Aging. New York: New York University Press.  
 Schulz, R. & Salthouse, T.A. (1998). Adult Development and Aging (3<sup>rd</sup> Ed.), New York: Macmillan.  
 Craik, F.I.M. & Salthouse, T.A. (Editors) (2000). Handbook of Aging and Cognition. (2<sup>nd</sup> Ed.) Hillsdale, N.J.: Lawrence Erlbaum Associates.  
 Craik, F.I.M. & Salthouse, T.A. (Editors), (2008). Handbook of Aging and Cognition (3<sup>rd</sup> Ed.), New York: Psychology Press.  
 Salthouse, T.A. (2010). Major Issues in Cognitive Aging. New York: Oxford University Press.

## (CHAPTERS)

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- Salthouse, T.A. (1988). The role of processing resources in cognitive aging. In M.L. Howe & C.J. Brainerd (Eds.), Cognitive Development in Adulthood. New York: Springer-Verlag.
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Drozick, L.W., Holdnack, J.A., Salthouse, T. & Cullum, C.M. (2013). Assessing cognition in older adults with the WAIS-IV, WMS-IV and ACS. In J.A. Holdnack, L.W. Drozdick, L.G. Weiss, & G.L. Iverson (Eds.), WAIS-IV, WMS-IV, and ACS: Advanced Clinical Interpretation. New York: Elsevier.

Salthouse, T.A. (in press). Individual differences in working memory and aging. In R. Logie & R. Morris (Eds.), Working memory and ageing.

(ARTICLES)

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Salthouse, T.A. (1974). Using selective interference to investigate spatial memory representations. Memory & Cognition, 2, 749-757.

Salthouse, T.A. (1975). Simultaneous processing of verbal and spatial information. Memory & Cognition, 3, 221-225.

Salthouse, T.A. (1976). Age and tachistoscopic perception. Experimental Aging Research, 2, 91-103.

Salthouse, T.A. (1976). Speed and age: Multiple rates of age decline. Experimental Aging Research, 2, 349-359.

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Salthouse, T.A. (1978). The role of memory in the age decline in digit-symbol substitution performance. Journal of Gerontology, 33, 232-238.

Salthouse, T.A. & Sterling, J.J. (1978). Contextual determinants of visual recognition with verbal and nonverbal stimuli. Bulletin of the Psychonomic Society, 11, 89-92.

Salthouse, T.A. & Danziger, W.L. (1978). Perception as hypothesis testing. Bulletin of the Psychonomic Society, 11, 197-199.

Danziger, W.L. & Salthouse, T.A. (1978). Age and the perception of incomplete figures. Experimental Aging Research, 4, 67-80.

Salthouse, T.A., McKeachie, W.J., & Lin, Y.G. (1978). An experimental investigation of factors affecting university promotion decisions: A brief report. Journal of Higher Education, 49, 177-183.

Salthouse, T.A., Wright, R., & Ellis, C.L. (1979). Adult age and the rate of an internal clock. Journal of Gerontology, 34, 53-57.

Salthouse, T.A. (1979). Adult age and the speed-accuracy tradeoff. Ergonomics, 22, 811-821.

Salthouse, T.A. & Ellis, C.L. (1980). Determinants of eye fixation duration. American Journal of Psychology, 93, 207-234.

Salthouse, T.A., Kolditz, T., Bumberry, J., & Johnston, M.B. (1980). An illusion of ingestion. Perception & Psychophysics, 27, 564-568.

Salthouse, T.A. (1981). Converging evidence for information processing stages: A comparative-influence stage analysis method. Acta Psychologica, 47, 39-61.

Salthouse, T.A. (1981). Does speed of performance change with increased age? In L.W. Poon & J.L. Fozard (Eds.), Design Conference on Decision Making and Aging. JSAS: Selected Documents in Psychology, 11, 10.

Salthouse, T.A., Ellis, C.L., Diener, D., & Somberg, B. (1981). Stimulus processing during eye fixations. Journal of Experimental Psychology: Human Perception and Performance, 7, 611-623.

Sterling, J.J. & Salthouse, T.A. (1981). Retinal location and visual processing rate. Perception & Psychophysics, 30, 114-118.

Salthouse, T.A. & Somberg, B. (1982). Isolating the age deficit in speeded performance.

Journal of Gerontology, 37, 59-63.

Salthouse, T.A. & Somberg, B. (1982). Time-accuracy relationships in young and old adults.

Journal of Gerontology, 37, 349-353.

Salthouse, T.A. & Somberg, B. (1982). Skilled performance: Effects of adult age and experience on elementary processes. Journal of Experimental Psychology: General, 111, 176-207.

Somberg, B. & Salthouse, T.A. (1982). Divided attention abilities in young and old adults.

Journal of Experimental Psychology: Human Perception and Performance, 8, 651-663.

Salthouse, T.A. (1982). Duration estimates of two information processing stages. Acta Psychologica, 52, 213-226.

Broyles, J.W., Prill, K.A., Marx, M.H., Salthouse, T.A., & Spencer, K.L. (1982). An empirical approach to the timing limitations of the raster-scan CRT. Bulletin of the Psychonomic Society, 20, 287-289.

Salthouse, T.A. & Prill, K.A. (1983). Analysis of a perceptual skill. Journal of Experimental Psychology: Human Perception and Performance, 9, 607-621.

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Salthouse, T.A. (1984). Effects of age and skill in typing. Journal of Experimental Psychology: General, 113, 345-371.

Salthouse, T.A., Rogan, J.D., & Prill, K.A. (1984). Division of attention: Age differences on a visually presented memory task. Memory & Cognition, 12, 613-620.

Salthouse, T.A. (1985). Anticipatory processing in transcription typing. Journal of Applied Psychology, 70, 264-271.

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Salthouse, T.A. & Prill, K.A. (1988). Effects of aging on perceptual closure. American Journal of Psychology, 101, 217-238.

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- Salthouse, T.A., Mitchell, D.R.D., & Palmon, R. (1989). Memory and age differences in spatial manipulation ability. Psychology and Aging, 4, 480-486.
- Salthouse, T.A., Babcock, R.L., Skovronek, E., Mitchell, D.R.D., & Palmon, R. (1990). Age and experience effects in spatial visualization. Developmental Psychology, 26, 128-136.
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- Babcock, R.L., & Salthouse, T.A. Age effects in primary and working memory. Gerontological Society Meetings, San Francisco, California, November, 1988.
- Salthouse, T.A., & Babcock, R.L. Decomposing adult age differences in working memory. Psychonomic Society Meetings, Atlanta, Georgia, November, 1989.

- Shaw, R.L., Salthouse, T.A. & Babcock, R.L. Age and working memory: Effects of number and type of processing operations. Third Cognitive Aging Conference, Atlanta, Georgia, March, 1990.
- Babcock, R.L. & Salthouse, T.A. Age and working memory: Multiple regression analyses of the interrelations among age, storage capacity, and processing efficiency. Third Cognitive Aging Conference, Atlanta, Georgia, March, 1990.
- Salthouse, T.A. Reasoning and spatial abilities in normal aging. American Psychological Association, Boston, August, 1990.
- Salthouse, T.A. & Rodriguez, W. Spatial visualization research survey on third-angle orthographic projection problems. ASEE/EDGD Conference, Toronto, Canada, 1990.
- Salthouse, T.A. What do we currently know about the mediation of adult age differences in cognition? International Congress of Psychology, Brussels, Belgium, July, 1992.
- Salthouse, T.A. Age, working memory and perceptual speed. Invited Conference on Cognitive Neuroscience of Aging: Memory and Attention. National Institutes of Health, August, 1992.
- Salthouse, T.A. What type of speed mediates adult age differences in what type of cognition? Psychonomics Society, St. Louis, MO., November, 1992.
- Salthouse, T.A. How does speed contribute to age differences in cognition? Cognitive Aging Conference, Atlanta, GA., April, 1994.
- Salthouse, T.A. Implications of age-cognition relations for work performance. American Psychological Society, Washington, D.C., July, 1994.
- Salthouse, T.A. Working memory, aging, and speed. International Conference on Working Memory. Cambridge, England., July, 1994.
- Salthouse, T.A. Overview on aging and expertise. American Psychological Association Convention, Los Angeles, CA., August, 1994.
- Salthouse, T.A. Aging and working memory. American Psychological Association Convention, Los Angeles, CA., August, 1994.
- Geary, D.C., Salthouse, T.A., Chen, G.P., & Fan, L. Numerical cognition: Are U.S. - East Asian ability differences a recent phenomenon? Psychonomics Society, St. Louis, MO., November, 1994.
- Salthouse, T.A. What needs to be explained in cognitive aging? American Psychological Association. New York, NY., August, 1995.
- Salthouse, T.A., Fristoe, N., & Rhee, S. How localized are age-related effects on neuropsychological measures? Psychonomics Society, Los Angeles, CA., November, 1995.
- Salthouse, T.A. Predictors of cognitive aging: What can be learned from correlational research? Cognitive Aging Conference. Atlanta, GA., April, 1996.
- Fristoe, N.M., Salthouse, T.A., & Woodard, J.L. Examination of age-related deficits on the Wisconsin Card Sorting Test. Cognitive Aging Conference. Atlanta, GA., April, 1996.
- Meinz, E.J. & Salthouse, T.A. The effects of musical experience and age on memory for music. Cognitive Aging Conference. Atlanta, GA., April, 1996.
- Meinz, E.J., & Salthouse, T.A. The effects of musical experience, knowledge, and age on memory for music. American Psychological Association, Toronto, Canada, August, 1996.
- Fristoe, N. M., Salthouse, T. A., & Woodard, J. L. Examination of age-related deficits on the Wisconsin Card Sorting Test. American Psychological Association, Toronto, Ontario, August, 1996.
- Salthouse, T.A. Discussion of How to Publish. Symposium for Graduate Students. American Psychological Association. Chicago, IL, August, 1997.
- Salthouse, T.A. Discussant (and organizer) of Symposium titled "Knowledge and Very Long-Term Memory over the Life Span." American Psychological Association. Chicago, IL, August, 1997.
- Salthouse, T.A., Hambrick, D.Z., & Meinz, E.J. Moderators of age-process and age-product relations in cognition. Psychonomics Society. Philadelphia, PA., November, 1997.
- Verhaeghen, P. & Salthouse, T.A. A meta-analysis of age-cognition relations in adulthood: Structural models. Psychonomics Society. Philadelphia, PA., November, 1997.
- Salthouse, T.A., Fristoe, N., McGuthry, K.E., & Hambrick, D.Z. Relation of task switching to speed, age, and fluid intelligence. Cognitive Aging Conference, April, 1998.
- Meinz, E.J., Hambrick, D.Z., & Salthouse, T.A. Self-rated interest as a moderator of age-knowledge relations. Cognitive Aging Conference, April, 1998.
- Salthouse, T.A. Discussion of Symposium: Exploring the dimensionality of life-span changes in fluid intelligence. XVth ISSBD Meeting, Bern, Switzerland, July, 1998.

Salthouse, T.A. Discussion of How to Publish. Symposium for Graduate Students. American Psychological Association. San Francisco, CA, August, 1998.

Marshuetz, C., Ombao, H., Salthouse, T.A., Smith, E.E., Jonides, J., Chenevert, T.L., Krishnan, S., Betley, A.T. A single subject statistical approach to modeling neural interactions in verbal working memory. Cognitive Neuroscience Society, Washington, D.C., April, 1999.

Marshuetz, C., Salthouse, T.A., Ombao, H., Smith, E.E., Jonides, J., Diego, L.R., Bates, J. E., Chenevert, T.L., Krishnan, S., & Betley, A.T. A single subject statistical approach to modeling the components of verbal working memory. Society for Neuroscience, Miami Beach, Florida, October, 1999.

Miles, J.D., & Salthouse, T.A. Time-sharing aspects of executive control. Cognitive Aging Conference, Atlanta, GA. April, 2002.

Berish, D., Salthouse, T.A., & Miles, J.D. The role of cognitive stimulation on the relations between age and cognitive functioning. Cognitive Aging Conference, Atlanta, GA., April, 2002.

Bowles, R.P. & Salthouse, T.A. Assessing the age-related effects of interference on working memory tasks. Cognitive Aging Conference, Atlanta, GA. April, 2002.

Riener, C., Proffitt, D., & Salthouse, T.A. Intuitive physics: Across tasks and age. Cognitive Aging Conference, Atlanta, GA. April, 2002.

Nesselroade, J.R. & Salthouse, T.A. Age differences in intraindividual variability in perceptual-motor performance. Cognitive Aging Conference, Atlanta, GA. April, 2002.

Bowles, R. P., & Salthouse, T. A. Assessing the age-related effects of interference on working memory tasks using the Rasch model. In K. M. Schmidt (Chair), Understanding cognitive processes by modeling sources of variation in item difficulty. Symposium presented at the annual meeting of the Psychometric Society, Chapel Hill, NC. June, 2002.

Bowles, R. P., & Salthouse, T. A. Assessing the age-related effects of interference on working memory tasks using the Rasch model. Paper presented at the International Objective Measurement Workshops XI, New Orleans, LA. April, 2002.

Salthouse, T.A. Aging of working memory. In J.S. Resnick (Chair), Lifelong development of working memory. Symposium at the annual meeting of the American Psychological Society, Atlanta, GA. May, 2003.

Salthouse, T.A.. Investigation of construct validity of executive functioning. Symposium at the annual meeting of the International Neuropsychological Society. Baltimore, MD. February, 2004.

Siedlecki, K.L., Berish, D.E., & Salthouse, T.A. The role of non-cognitive factors in age-cognition relations. Cognitive Aging Conference. Atlanta, GA. April, 2004.

Berish, D.E. & Salthouse, T.A. Across-occasion within-individual variability in reaction time. Cognitive Aging Conference. Atlanta, GA. April 2004.

Berish, D.E., Siedlecki, K.L., & Salthouse, T.A. Construct validity and age sensitivity of prospective memory. American Psychological Association. August, 2004.

Siedlecki, K.L., Salthouse, T.A., & Berish, D.E. Is there anything special about the aging of source memory? American Psychological Association. August, 2004.

Nee, D.E., Jonides, J., Sylvester, C-Y. C., Christiansen, J., Thomas, A., & Salthouse, T.A. Age differences in brain activation in the trail making task. Cognitive Neuroscience Meeting. April, 2005.

Salthouse, T.A. Methodological implications of short-term variability for longitudinal change. Cognitive Aging Conference, Atlanta, GA. April, 2006.

Tucker-Drob, E. & Salthouse, T.A. Adult age differences in the relationship between fluid and crystallized abilities. Cognitive Aging Conference, Atlanta, GA. April, 2006.

Rabaglia, C.D. & Salthouse, T.A. What cognitive abilities are associated with language production and do they vary as a function of age? Cognitive Aging Conference, Atlanta, GA. April, 2006.

Gerstorff, D., Siedlecki, K.L., Tucker-Drob, E. & Salthouse, T.A. Within-person fluctuations in state anxiety across adulthood: Magnitude and within-person correlates. American Psychological Association, New Orleans, LA. August, 2006.

Tucker-Drob, E., Rabaglia, C., Pink, J. & Salthouse, T.A. Contextual analysis of cognitive abilities. International Society of Intelligence Research, San Francisco, CA. December, 2006.

Pink, J., Tucker-Drob, E., & Salthouse, T.A. An analysis of working memory in the context of reference cognitive abilities. International Society of Intelligence Research, San Francisco, CA. December, 2006.



- Rabaglia, C., Tucker-Drob, E., & Salthouse, T.A. A contextual analysis of written language. International Society of Intelligence Research, San Francisco, CA. December, 2006.
- Tucker-Drob, E. & Salthouse, T.A. The centrality of cognitive control to cognition. International Society of Intelligence Research, Amsterdam, The Netherlands. December, 2007.
- Soubelet, A. & Salthouse, T.A. Active or agitated: The role of perceived busyness on age differences in cognition. Cognitive Aging Conference, Atlanta, GA. April, 2008.
- Krueger, L. & Salthouse, T.A. Influence of age, sex, and episodic memory ability on multi-trial word recall. Cognitive Aging Conference, Atlanta, GA. April, 2008.
- Tucker-Drob, E.M. & Salthouse, T.A. Applications of item response models in the Virginia Cognitive Aging Project: Implications for the dedifferentiation and cognitive reserve hypotheses. Cognitive Aging Conference, Atlanta, GA. April, 2008.
- Soubelet, A. & Salthouse, T.A. The Big 5 meets the Big 4: Personality-cognition relations in adulthood. Cognitive Aging Conference, Atlanta, GA. April, 2010.
- Salthouse, T.A. When does meaningful memory change begin? Dallas Aging and Cognition Conference. Dallas, TX. February, 2011.
- O'Connor, M. & Salthouse, T.A. What does self-reported cognition really measure, and does its meaning vary by age? Gerontological Society of American. Boston, MA. November, 2011.

#### INVITED ADDRESSES:

- "Age and Memory: Strategies for localizing the loss", George A. Talland Memorial Conference on Memory and Aging. Boston, Massachusetts, August, 1978.
- "Use of computers in psychology", Kansas State University. Manhattan, Kansas, May, 1979.
- "A century of progress in research on reading", Northeast Missouri State University. Kirksville, Missouri, November, 1979.
- "Adult age and cognitive functioning", University of Missouri-Rolla. Rolla, Missouri, October, 1980.
- "Psychomotor /indices of physiological age", Conference on Non-Lethal Biological Markers of Physiological Aging. Bethesda, Maryland, June, 1981.
- "Cognitive processes and aging", Fifth Carmel Conference on Cognitive Psychophysiology. Carmel, California, January, 1983.
- "The role of processing rate in adult cognition", University of California, Santa Barbara, January, 1983. Claremont Graduate School, February, 1983. University of California, Los Angeles, March, 1983.
- "Prospects for functional age measurement", Business Institute in Gerontology. University of Southern California, Los Angeles, California, May, 1983.
- "Age-related slowing and its impact upon memory processes", Research Symposium titled "Perspectives on the Interaction of Aging and Memory". University of Nebraska, Omaha, Nebraska, November, 1983.
- "Progress report on the processing rate theory of cognitive aging", Midwestern Psychological Association. Chicago, Illinois, May, 1984.
- "Speculations on the what, when, and why of mental aging", American Psychological Association. Toronto, Canada, August, 1984.
- "Age, experience, and compensation", Workshop in Intellectual Functioning, Social Structures, and Aging. National Institute on Aging, Bethesda, Maryland, September, 1984.
- "The role of experience in cognitive aging", Max Planck Institute for Human Development and Education, Berlin, May, 1985. University of Erlangen, Erlangen, West Germany, May, 1985.
- "When does experience compensate for age?" University of Waterloo. Waterloo, Ontario, April, 1986.
- "Cognitive aspects of motor functioning." New York Academy of Sciences Conference on "Central Determinants of Age-Related Declines in Motor Function." Rye, New York, October, 1986.
- "Training = Controlled social structure? Comments on Willis' Paper." Penn State Conference on Social Structure and the Psychological Aging Processes. University Park, Pennsylvania, October, 1986.
- "Effects of aging and expertise in cognitive functioning." Georgia Consortium on the Psychology of Aging, University of Georgia, Athens, Georgia, November, 1986.

"Do cognitive resources decline with age?" Department of Psychology, University of Toronto, Toronto, Ontario, January, 1987.

"Does experience compensate for age?" Programme in Gerontology, University of Toronto, Toronto, Ontario, January, 1987.

"Interactive effects of age and experience in cognitive functioning." Department of Psychology, Emory University, Atlanta, Georgia, February, 1987.

"Is functional age functional?" APA Division 21 Mid-Year Symposium. Washington, D.C., March, 1987.

"The status of a working-memory processing resource in cognitive aging." Department of Psychology, University of Victoria, Victoria, British Columbia, November, 1987.

"Aging cognition", COSALS Faculty Lecture, Georgia Institute of Technology, Atlanta, Georgia, April, 1988.

"Coping with too many resources: Usage of processing resources concepts in cognitive aging." Second Cognitive Aging Conference, Atlanta, Georgia, April, 1988.

"An overview of cognitive aging." Summer Institute in Developmental Psychology, Schloss Reisenburg, Gunzburg, West Germany, July, 1988.

"Changes in basic cognitive processes." Master Lecture Series, American Psychological Association Convention, Atlanta, Georgia, August, 1988.

"Interrelations of age and experience." Institute of Gerontology, University of Michigan, Ann Arbor, Michigan, September, 1988. Department of Psychology, Washington University, St. Louis, Missouri, October, 1988.

"A processing resource perspective on cognitive aging." EPIC IX Conference on Event-Related Potentials of the Brain. Noordwijk, The Netherlands, June, 1989.

"Can resource theories of cognitive aging be tested?" Department of Psychology, University of Amsterdam, Amsterdam, The Netherlands, June, 1989.

"Expertise as the circumvention of processing limitations." Conference on Expertise. Max Planck Institute for Human Development and Education, West Berlin, July, 1989.

"Aging, working memory, and the complexity of complexity." Department of Psychology, University of South Carolina, October, 1989.

"Cognitive and intellectual functioning." Summer Institute in Research on Aging. Airlie House, Warrenton, Virginia, July, 1990.

"Age and experience influences on basic cognitive processes." Georgia Consortium on the Psychology of Aging. Atlanta, Georgia, May, 1991.

"Shifting levels of analysis in the understanding of cognitive aging." International Society for the Study of Behavioural Development Meetings. Minneapolis, MN, July, 1991.

"Status of working memory as a mediator of adult age differences in cognition." American Psychological Association. San Francisco, CA., August, 1991.

"Mechanisms of age-cognition relations in adulthood." McEachern Distinguished Lectures, University of Alberta. Edmonton, Alberta, Canada, October, 1991.

"Age-related differences in basic cognitive processes: Implications for work." Stein Conference on Engineering Design for an Aging Society. Philadelphia, PA, October, 1991.

"Research strategies in cognitive aging." University of Georgia Graduate Student Research Conference. February, 1992.

"Overview of perspectives on age-related slowing." Cognitive Aging Conference. Atlanta, GA., April, 1992.

"In search of simple (simplistic?) models of cognitive aging." Cognitive Science Colloquium Series, Georgia Institute of Technology, January, 1993.; Department of Psychology, Carnegie-Mellon University, Pittsburgh, PA, March, 1993.

"Cognitive change: Detection and intervention." Illinois Gerontology Conference, University of Illinois, Urbana, IL, April, 1993.

"Processing capacity and its role on the relations between age and memory." Conference on Research on Memory Development: State of the Art and Future Directions, Castle Ringberg, Tegernsee, Germany. June, 1993.

"A cognitive psychologist's perspective on the assessment of cognitive competency." Conference on the Impact of the Law on Older Adults' Decision Making Capacity. Pennsylvania State University, October, 1993.

"Speed, working memory, and adult age differences in cognitive functioning." Department of Psychology, University of Virginia, Charlottesville, VA. December, 1993.

"Evaluating explanations of cognitive aging phenomena." American Psychological Society, Washington, D.C. July, 1994.

"Aging and memory." Switzerland Memory Conference. Hotel de Sonloup, Switzerland. September, 1994.

"Psychological issues related to competence." Penn State University. October, 1994.

"Constraints on theories of cognitive aging." University of Potsdam, Potsdam Germany. April, 1995. Max Planck Institute for Human Development and Education, Berlin, Germany. May, 1995.

"Aging and cognition: Does it all go together when it goes?" University of Michigan, Ann Arbor, MI, January, 1996; Duke University, Durham, N.C., January, 1996; University of Alabama, Birmingham, February, 1996. Massachusetts Institute of Technology, Cambridge, MA., March, 1996.

"Aging and higher-order cognitive processes" University of Padua, Padua, Italy. March, 1996.

"Reductionism in cognitive aging: How low can it go?" American Psychological Association, Toronto, Canada. August, 1996.

"Aging and expertise" Human Factors and Ergonomics Society, Philadelphia, PA, September, 1996.

"Time as a factor in the development and decline of mental processes", Conference on Mind and Time in honor of the Centenary of Piaget's Birth, Neuchatel, Switzerland, September, 1996.

"Implications of adult age differences in cognition for work performance", (Keynote address) Conference on Work after 45, Stockholm, Sweden, September, 1996.

"Influence of knowledge on age-cognition relations", 40th Congress of the German Society of Psychology, Munich, Germany, September, 1996.

"Aging and neuropsychology", Department of Psychology, Georgia State University, Atlanta, Georgia, April, 1997.

"Two approaches to explaining cognitive aging phenomena", Department of Psychology, University of Minnesota, Minneapolis, MN., May, 1997.

"Micro and macro perspectives on cognitive aging", Brandeis University, Waltham, MA., October, 1997, University of Michigan, Ann Arbor, MI., February, 1998; University of Georgia, Athens, GA., March, 1998. Keynote Address at the Rotman Institute Conference on Cognition and the Aging Brain, Toronto, Canada, March, 1998. Central Michigan University, Mt. Pleasant, MI., March, 1998.

"What and where of cognitive aging". American Psychological Association (Div. 21 Invited Lecture). San Francisco, CA., August, 1998.

"The role of cognition on the relations between aging and work" (Keynote Address to the Second International ICOH Conference on Aging and Work, Elsinore, Denmark, September, 1998.

"Structure and process in cognitive aging." Kendon Smith Distinguished Lecture Series, University of North Carolina, Greensboro. October, 1998; Department of Psychology, University of Missouri, Columbia, November, 1998; Institute of Psychology, Chinese Academy of Sciences, Beijing, China, November, 1998.

"Aging and mental exercise: The role of crossword puzzle experience on the relations between age and cognition." Developmental Psychology Area, University of Michigan, Ann Arbor, Michigan, October, 1998.

"Structural constraints on process explanations in cognitive aging." February, 1999. Institute of Gerontology, Wayne State University, Detroit, Michigan; Department of Psychology, Michigan State University, East Lansing, Michigan. May, 1999. Department of Psychology, University of California – Riverside.

"Major Issues in Cognitive Aging", "Methodological Issues in Aging Research" July, 1999. National Institute on Aging Training Seminar. College of St. Scholastica, Duluth, Minn.

"The other side of cognitive aging: Relations of age on the quantity and utilization of knowledge." August, 1999, Division 20 Presidential Address, American Psychological Association. Boston, MA.

"Examination of the role of executive process in cognitive aging." October, 1999. Conference on Aging and Executive Control, University of Potsdam, Germany.

"Interrelations of aging, knowledge, and cognitive performance." October, 1999. Fall Academy for Psychiatry and Psychology of Aging, Dolln, Germany.

"Age-related effects on memory in the context of age-related effects on cognition." December,

1999. Tsukuba International Conference on Memory. Tsukuba, Japan.

“The Disuse perspective in cognitive aging.” April, 2000. Keynote address in University of Georgia Annual Psi Chi Meeting. Athens, Georgia.

“What should be explained in cognitive aging?” April, 2000. EPOS Workshop on Cognitive Aging. Amsterdam, The Netherlands.

“Major Issues in Cognitive Aging”, “Methodological Issues in Aging Research” August, 2000. National Institute on Aging Training Seminar. College of St. Scholastica, Duluth, Minn.

“Aging of Intelligence”, Smithsonian Associates Program Lecturer in “Getting Smart: The Nature and Meaning of Intelligence”. November, 2000.

“Analytical Models of Intellectual Aging”, Keynote address at the 1<sup>st</sup> International Society of Intelligence Research, Cleveland, OH. November, 2000.

“A Remedy for Cognitive Aging: Using it and still losing it?” March, 2001. Department of Psychology, Florida State University. Tallahassee, Florida.

“Major Issues in Cognitive Aging”, “Interventions in Cognitive Aging Research” July, 2001. National Institute on Aging Training Seminar. College of St. Scholastica, Duluth, Minn.

“Multiple mechanisms in mental aging.” March, 2002. Keynote address, British Psychological Society, Blackpool, England.

“Multiple levels of description and explanation in cognitive aging.” April, 2002. Conference on Integrative Psychological Science. Bloomington, IN.

“Memory aging from 18 to 80.” April, 2002. Meeting of Directors of Alzheimer’s Disease Centers. Denver, CO.

“Aging and Cognition: 20 questions and 19 answers.” July, 2002. Cognitive Neuroscience Summer Institute. Dartmouth College, Hanover, NH.

“Major Issues in the Ageing of Cognition.” September, 2002. National Collaboration on Ageing Research Workshop, University of Warwick, England.

“Aging, Cognition, Education, and Health.” October, 2002. Workshop on Education and Health: Building a Research Agenda. Chevy Chase, Maryland.

“The role of executive functioning as a potential mediator of age-related differences in cognition.” March, 2003. Department of Psychology, Flinders University, Adelaide, South Australia; Department of Psychology, University of South Australia, Adelaide, South Australia.

“Disuse and cognitive aging: Do we still lose it if we use it?” March, 2003. Department of Psychology, University of Adelaide, Adelaide, South Australia.

“Integration of correlational and neurobiological research in the explanation of cognitive aging.” March, 2003. Center for Neuroscience, Flinders University, Adelaide, South Australia.

“Exercising your mind: Will you still lose it if you use it?” March, 2003. Chancellor’s Lecture, Flinders University, Adelaide, South Australia.

“Effects of Aging on Spatial Visualization.” Keynote Lecture, April, 2003. European Workshop on Imagery and Cognition (EWIC). Pavia, Italy.

“An overview of cognitive aging.” August, 2003. Educational Testing Service. Princeton, New Jersey.

“Aging and Memory,” November, 2003. University of Virginia Family Day Faculty Research Presentation.

“Major and Minor Questions in Developmental Psychology,” July, 2004. Max Planck Institute for Human Development, Berlin.

“Aging and Cognition,” July, 2004. Carillion Biomedical Institute, Roanoke, Virginia.

“What is Normal Cognitive Aging?” July, 2005. Workshop on Cognitive Vitality sponsored by the Institute on the Study of Aging, Bridgehampton, NY.

“Physical Activity and Cognitive Aging,” July, 2005. MaxNet Meeting, Doelln, Germany.

“Aging, Cognition and Speech Communication,” October, 2005. Aging and Speech Communication Research Conference. Bloomington, IN.

“What is normal cognitive health with aging and how do we recognize and measure it? Plenary Lecture. Conference on Does Mental and Physical Activity Promote Cognitive Vitality in Late Life? March 1-3, 2006. Philadelphia, PA.

“Cognitive research in aging.” Workshop on Neuroeconomics and Aging. March 31, 2006. Stanford University, Palo Alto, CA.

“What cognitive changes occur with age, when do they occur, and why do they occur?” May 4,

2006. Georgetown University. Washington, D.C.

"Mental exercise and cognitive training." May 15, 2006. Friedman Conference on Modifiers of Cognitive Aging, Washington University, St. Louis, MO.

"Aging and reasoning." August 16, 2006. National Institute on Aging Working Group Meeting on Decision Making and Aging. Bethesda, MD.

"Mental Aging: Older but wiser, or using it and still losing it." April 3, 2007, University of Richmond, Richmond, VA.

"Can mental activity prevent age-related mental decline?" April 12, 2007. UCSD Alzheimer's Conference. San Diego, CA.

"The future of cognitive aging research." October 10, 2007. Cognitive Aging Summit. Washington, D.C.

"Relations of normal aging to AD". November 13, 2007. Alzheimer's Association Research Roundtable. Washington, D.C.

"A four-factor theory of Cognitive Aging" December 17, 2007. Department of Psychology, Washington University, St. Louis, MO.

"What is normal cognitive aging?" December 18, 2007. Alzheimer's Disease Research Center, Washington University, St. Louis, MO.

"Implications of age differences in cognitive functioning for work." April 14, 2008. Banbury Conference on "How old should we be expected to work", Cold Spring Harbor, New York.

"Consensus and Controversies in Aging Cognition." Workshop on Aging Research. American Psychological Society, May 21, 2008.

"History and Future of Cognitive Aging Research." Celebration of 50 years of Research Training in Psychological Aging at Washington University. St. Louis, MO. May 30, 2008.

"Mental Exercise and Mental Aging." Banbury Conference on "How can we improve our brains", Cold Spring Harbor, New York. September 16, 2008.

"Operationalization and validity of the construct of executive functioning." Continuing Education Workshop at the International Neuropsychological Society Meetings, Atlanta, GA., February 12, 2009.

"Aging of cognition from 18 to 60." Invited Plenary Lecture. International Neuropsychological Society Meetings, Atlanta, GA., February 13, 2009.

"Dimensionality of Age-Related Cognitive Change." Brain Aging Neuroimaging Group. Boston, MA. April 10, 2009.

"What is cognitive aging?" New York Academy of Sciences, Therapeutics for Cognitive Aging. New York City, May 15, 2009.

"What needs to be explained in cognitive aging?" Neurocognitive Conference, Singapore. November 7, 2009.

"Why aren't there greater consequences of age-related cognitive decline?" APA Distinguished Scientist Lecture at Eastern Psychological Association Meetings, Boston, MA. March 11, 2011.

"Decomposing cognitive change." Department of Psychology, University of Edinburgh. Edinburgh, Scotland. April 18, 2011.

"Cognitive functioning from 18 to 80". Department of Neuropsychology, Johns Hopkins University.

"Cognitive functioning from 18 to 80". Department of Psychology, Carnegie Mellon University, Pittsburgh, PA. October 8, 2012.

"Cognitive functioning from 18 to 80". Neurocognitive Assessment Lab, Department of Psychiatry and Neurobehavioral Sciences, November, 2012. University of Virginia.

"The Virginia Cognitive Aging Project and Early Detection of Dementia." October, 2013. University of Virginia Alumni More than the Score Talk.

"What is normal cognitive aging?" Institute of Medicine Committee on Cognitive Aging. Washington, D.C. April 10, 2014.

"What is normal memory aging and how does it differ from dementia?" May, 13, 2014. University of Alumni Class Reunions Talk.

#### RESEARCH GRANTS:

"Perceptual Limitations of Older Age", Research grant from the University of Missouri Joint Centers for Aging Studies, 1978.

"Determinants of Time-Accuracy Tradeoff Parameters", Research grant from the National

Institute of Mental Health, 1978-1979.

"Age, Experience, and Perceptual-Motor Performance", Research grant (RO1AG00694) from the National Institute on Aging, 1979-1981.

"Processing Rate and Adult Age Differences in Cognition", Research Career Development Award (KO4AG00146) from the National Institute on Aging, 1983-1988.

"Maintenance of Typing Skill in Adulthood", Research grant (RO1AG04226) from the National Institute on Aging, 1984-1986.

"Cross-Sectional Assessment of Cognitive Abilities Across the Adult Lifespan", Research grant from the University of Missouri Weldon Spring Research Fund, 1985-1986. (With D.H. Kausler).

"Adult Age Differences in Reasoning and Spatial Abilities", Research grant from the National Institute on Aging, 1986-2000 (MERIT AWARD, R37AG06826).

"Effects of Age on Spatial Abilities Among Engineers", Research grant (RO1AG06858) from the National Institute on Aging, 1987-1990.

"Functional Neuroimaging Techniques in Age-Related Cognitive Changes", Research grant from the Emory/Georgia Tech Biomedical Technology Research Center. (With John Hoffman and Anderson Smith). 1995-1996.

"TELECOG: A brief cognitive instrument". Co-Investigator (PI: New England Research Institute). 2000-2002.

"Effects of Aging on Executive Processes". Research grant (RO1AG19627) from the National Institute on Aging. 2002-2008.

"Detection of preclinical Alzheimer's Disease". Research grant from the Commonwealth of Virginia Alzheimer's and Related Diseases Research Award Fund. 7/2008-7/2009.

"Short-term cognitive change in adults from 18 to 80". Research grant from the National Institute on Aging, 2005-2015. (MERIT AWARD, R37AG24270).

"Exploring cognitive aging using reference ability neural networks". Co-Principal Investigator (PI: Yaakov Stern, Columbia University). Research grant (RO1 AG0038465) from the National Institute on Aging, 2011-2016.

#### EDITORIAL RESPONSIBILITIES:

Editor - Psychology and Aging, 1991-1996.

Co-Editor - Handbook of Aging and Cognition (1992-1<sup>st</sup> Ed., 2000-2<sup>nd</sup> Ed., 2008-3<sup>rd</sup> Ed).

Associate Editor - Handbook of the Psychology of Aging, (1985-2<sup>nd</sup> Ed., 1990-3<sup>rd</sup> Ed., 1995-4<sup>th</sup> Ed., 2000-5<sup>th</sup> Ed., 2006-6<sup>th</sup> Ed).

Editorial Board:

Journal of Gerontology, (1979-1980, 1987-1991).

Psychology and Aging, (1986-1991, 1997-current).

Experimental Aging Research, (1985-2004).

Developmental Review, (1996-current)

#### TEACHING EXPERIENCE:

Lower Division Undergraduate: Introductory Psychology, Research Methods in Psychology, Environmental Psychology, Sensation and Perception

Upper Division and Graduate: Perception, Cognitive Psychology, Psychology of Aging, Human Senses, History of Psychology, Advanced Statistics (Multiple Regression), Models of Human Information Processing, Seminar in Human Factors, Seminar in Skill and Expertise, Seminar in Individual Differences in Cognition, Seminar in Cognitive Aging, Seminar in Cognitive Neuroscience

#### UNIVERSITY COMMITTEE ACTIVITIES:

Chair, Psychology Department Human Subjects Committee, University of Missouri, 1976-1977.

Chair, Psychology Department Computer and Equipment Committee, University of Missouri, 1976-1982.

Member, University of Missouri Center for Aging Studies Policy Board, 1978-1981.

Acting Chair, University of Missouri Center for Aging Studies Policy Board, 1981.

Member, Archives Committee, Division 20, American Psychological Association, 1982-1983.

Member, Nominations Committee, Division 20, American Psychological Association, 1984-1985.

Member, Experimental Search Committee, Department of Psychology, University of Missouri, 1979.

Member, Cognitive Search Committee, Department of Psychology, University of Missouri, 1983-1984.

Chair, Cognitive Search Committee, Department of Psychology, University of Missouri, 1984-1985.

Member, Chair Search Committee, Department of Psychology, University of Missouri, 1985-1986.

Member, Departmental Enhancement Committee, Department of Psychology, University of Missouri, 1985-1986.

Member, Cognitive Science Search Committee, School of Psychology, Georgia Institute of Technology, 1986-1987.

Member, Cognitive Science Search Committee, School of Psychology, Georgia Institute of Technology, 1987-1988.

Chair, School of Psychology Space Needs Committee, Georgia Institute of Technology, 1988.

Member, President's Task Force on Leadership Development, Georgia Institute of Technology, 1988-1989.

Member, Institute Reorganization Committee for the College of Information, Computing, and Cognitive Science, Georgia Institute of Technology, 1988-1989.

Member, School of Psychology Tenure and Promotion Committee, Georgia Institute of Technology, 1989-1994.

Member, Vice President's Advisory Committee on Tenure and Promotion, Georgia Institute of Technology, 1989-1990.

Member, Cognitive Science Search Committee, School of Psychology, Georgia Institute of Technology, 1990-1991.

Member, College of Computing Advisory Committee on Tenure and Promotion, Georgia Institute of Technology, 1990-1991, 1991-1992.

Member, College of Science Dean Search Committee, Georgia Institute of Technology, 1993.

Chair, Cognitive Psychology Search Committee, School of Psychology, Georgia Institute of Technology, 1993-1994.

Member, EDUTECH Director Search Committee, Georgia Institute of Technology, 1993-1994.

Member, College of Science Tenure and Promotion Committee, 1994-1997

Member, School of Psychology Director Search Committee, 1994-1995

Member, School of Psychology Faculty Search Committee, 1994-1995

Member, School of Psychology Faculty Search Committee, 1995-1996

Member, School of Psychology Tenure and Promotion Committee, 1996

Chair, School of Psychology Executive Committee, 1996-1997

Member, Committee on Post-Tenure Review, Georgia Institute of Technology, 1996-1997

Chair, Ad Hoc College of Science Committee on Evaluation of Teaching Effectiveness, 1997-1998

Member, School of Psychology Executive Committee, 1997-1998

Chair, School of Psychology Post-Tenure Review Committee, Georgia Institute of Technology, 1998.

Member, Committee to Evaluate Post-Tenure Review Policies, Georgia Institute of Technology, 1998.

Chair, School of Psychology Advisory Committee, 1999-2000

Chair, School of Psychology Faculty Search Committee, 1999-2000

Member, Pathfinder Graduate Student Award Committee, Department of Psychology, University of Virginia, 2001.

Presenter, University of Virginia Science Day, September, 2001.

Member, Department of Psychology Interdisciplinary Committee, University of Virginia. 2002.

Member, Department of Psychology Steering Committee. 2003-2004.

Member, Department of Psychology Human Participants Committee. 2004-2005.

Member, Department of Psychology Computer/Shop Committee. 2004.

Chair, Department of Psychology Steering Committee. 2008-2009.  
 Chair, Department of Psychology Awards Committee. 2011-2014.  
 Member, Department of Psychology Promotion Committee. 2013.  
 Member, Department of Psychology Cognitive Search Committee. 2013-2014.

#### MISCELLANEOUS SERVICE:

Member, National Academy of Sciences Panel on Vision and the Aging Worker. January, 1986.  
 Member, Special Advisory Group, National Institute on Aging. May, 1987.  
 Member, National Academy of Sciences Panel on Human Factors Research Issues for an Aging Population. August, 1987.  
 Member-at-Large, Division 20 Executive Committee, American Psychological Association. 1987-90.  
 Member, Special Advisory Group, National Institute on Aging. April, 1994.  
 Chair, Council of Editors, American Psychological Association, 1995-1996.  
 Ad Hoc Member, Scientific Advisory Board, Max Planck Institute for Human Development and Education, Berlin. May, 1996.  
 Member, Special Advisory Group, National Institute on Aging, September, 1996.  
 Member, APA Advisory Committee for Mini-Convention on Aging, 1995-1996  
 Member, Advisory Panel for ACTIVE Clinical Trial, 1997-2002.  
 Member, Advisory Committee for APA Mini-Convention on Aging, 1997.  
 Member, Special Review Panel, NIMH, August, 1997.  
 Member, Review Panel for Sage Publications Editor's Award, 1997-2000  
 President, Division 20, American Psychological Association, 1998-1999.  
 Member, American Psychological Association, Committee on Scientific Awards, 1998-99.  
 Member, National Institute of Medicine Committee on Changing Dimensions of Older American Workers and their Occupational Health and Safety Needs, 1999.  
 Member, National Academy of Sciences Committee on the Future of Cognitive Aging, 1999  
 Member, Special Review Panel, NIMH, August, 2001.  
 Member, National Academy of Sciences Committee on the Health and Safety Needs of Older Workers, 2001-2003.  
 Acting Chair, Advisory Panel for ACTIVE Clinical Trial, 2002.  
 Member, Special Committee to Select Director of Max Planck Institute for Human Development, 2002.  
 Member, Special Committee to Discuss Future of WWII Twins Study. National Research Council, 2003.  
 Ad Hoc Member, NIH Scientific Review Committee. October, 2003.  
 Chair-Elect, AAAS Section J (Psychology), 2005  
 Member, Search Committee for Editor of Psychology and Aging, 2005-2006.  
 Member, Advisory Panel for the WAIS IV and WMS IV (Harcourt Publishing), 2005-2007.  
 Member, Advisory Board for NIH Toolkit for Development of Executive Functioning Assessment (EXAMINER). 2005-2010.  
 Chair, AAAS Section J (Psychology), 2006.  
 Member, Planning Committee for NIH Cognitive Aging Summit, 2006.  
 Member, Cognition and Perception Study Section, NIH. 2007-2011.  
 Member, NIH/NIA 2008 Review of BSR Programs, Psychology of Aging SubCommittee, 2008.