

VITA

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Education

1972-1976 B.A. in Psychology
University of Missouri at St. Louis

1976-1978 M.A. in Experimental Psychology
University of South Carolina

1978-1981 Ph.D. in Experimental Psychology
University of South Carolina

Dissertation Title: *Automatic and Attentional
Activation in Semantic and Episodic Memory:
Implications for the Utility of Conscious Awareness*
Directed by: Professor Randall W. Engle

Honors

1981 Graduate Student Neidich Award

2001 Awarded University Graduate Student Mentor Award

2002 Outstanding Graduate Alumni Award, USC

2007 Distinguished Alumni Award for University of Missouri at St. Louis

2011 David Hadas, Arts and Sciences Teaching Award

2013 Awarded University Graduate Student Mentor Award

2014 Arthur Holly Compton Award for Faculty Excellence in Arts & Sciences

Professional and Teaching Experience

- 1976-1981 University of South Carolina
Teaching and Research Assistant
- 1981-1983 Sloan Foundation and NIH
Post Doctoral Research Fellow at the
University of Massachusetts, Amherst
- 1983-1984 Assistant Professor, University of Kentucky
- 1984-1985 Assistant Professor, Iowa State University
- 1985-1989 Assistant Professor, Washington University
- 1987-1988 Invited Research Fellow at the Netherlands
Institute for Advanced Study in the Social Sciences
- 1989- Associate Professor, Washington University
- 1990 Invited Visiting Scholar (7/2/90 - 8/14/90)
at the Max Planck Institute for Psycholinguistics
in Nijmegen, The Netherlands
- 1995- Full Professor, Washington University
- 1996 (summer) Erskine Distinguished Professor, University of Canterbury,
New Zealand
- 1996- Professor of Neurology, Washington University

Journal Publications

- Balota, D.A., & Neely, J.H. (1980). Test-expectancy and word-frequency effects in recall and recognition. *Journal of Experimental Psychology: Human Learning and Memory*, *6*, 576-587.
- Balota, D.A., & Engle, R.W. (1981). Structural and strategic factors in the stimulus suffix effect. *Journal of Verbal Learning and Verbal Behavior*, *20*, 346-357.
- Neely, J.H., & Balota, D.A. (1981). Test-expectancy and semantic organization effects in recall and recognition. *Memory & Cognition*, *9*, 283-300.
- Balota, D.A. (1983). Automatic semantic activation and episodic memory encoding. *Journal of Verbal Learning and Verbal Behavior*, *22*, 88-104.
- Balota, D.A., & Rayner, K. (1983). Parafoveal visual information and semantic contextual constraints. *Journal of Experimental Psychology: Human Perception and Performance*, *9*, 726-738.

- Balota, D.A., & Chumbley, J.I. (1984). Are lexical decisions a good measure of lexical access? The role of the neglected decision stage. *Journal of Experimental Psychology: Human Perception and Performance*, *3*, 340-357.
- Chumbley, J.I., & Balota, D.A. (1984). A word's meaning affects the decision in lexical decision. *Memory & Cognition*, *12*, 590-606.
- Myers, J.L., O'Brien, E.J., Balota, D.A., & Toyofuku, M.L. (1984). Memory search without interference: The role of integration. *Cognitive Psychology*, *16*, 217-242.
- Balota, D.A. (1985). Some old and new ideas about dual route theory. *Behavioral and Brain Sciences*, *8*, 736.
- Balota, D.A., & Chumbley, J.I. (1985). The locus of word-frequency effects in the pronunciation task: Access and/or production? *Journal of Memory and Language*, *24*, 89-106.
- Balota, D.A., Pollatsek, S., & Rayner, K. (1985). The interaction of contextual constraints and parafoveal visual information in reading. *Cognitive Psychology*, *17*, 364-390.
- Balota, D.A. (1986). Unconscious semantic processing: The pendulum keeps on swinging. *Behavioral and Brain Sciences*, *9*, 23-24.
- Balota, D.A., & Duchek, J.M. (1986). Voice-specific information and the 20-second delayed-suffix effect. *Journal of Experimental Psychology: Learning, Memory & Cognition*, *12*, 509-516.
- Balota, D.A., & Lorch, R.F., Jr. (1986). Depth of automatic spreading activation: Mediated priming effects in pronunciation but not in lexical decision. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *12*, 336-345.
- Lorch, R.F., Jr., Balota, D.A., & Stamm, E.G. (1986). Locus of inhibition effects in the priming of lexical decisions: Pre- or post-lexical access? *Memory & Cognition*, *14*, 95-103.
- Pollatsek, A., Rayner, K., & Balota, D.A. (1986). Inferences about eye-movement control from the perceptual span in reading. *Perception and Psychophysics*, *40*, 123-130.
- Rayner, K., Balota, D.A., & Pollatsek, A. (1986). Against parafoveal semantic preprocessing during eye fixations in reading. *Canadian Journal of Psychology*, *40*, 473-483.
- Balota, D.A., & Duchek, J.M. (1988). Age related differences in lexical access, spreading activation, and simple pronunciation. *Psychology and Aging*, *3*, 84-93.
- Balota, D.A., Boland, J., & Shields, L. (1989). Priming in pronunciation: Beyond pattern recognition and onset latency. *Journal of Memory and Language*, *28*, 14-36.

- Balota, D.A., & Duchek, J.M. (1989). Spreading activation in episodic memory: Further evidence for age-independence. *Quarterly Journal of Experimental Psychology*, *41A*, 849-876.
- Balota, D.A., Duchek, J.M., & Paullin, R. (1990). Age-related differences in the impact of spacing, lag and retention interval. *Psychology and Aging*, *4*, 3-9.
- Balota, D.A., & Chumbley, J.I. (1990). Where are the effects of frequency in visual word recognition tasks? Right where we said they were! Comment on S. Monsell, M.C. Doyle, and P.N. Haggard (1989). *Journal of Experimental Psychology: General*, *119*, 231-237.
- Balota, D.A., Cowan, N., Engle, R.W. (1990). Suffix interference in the recall of linguistically coherent speech. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *16*, 446-456.
- Balota, D.A., & Duchek, J.M. (1991). Semantic priming effects, lexical repetition effects, and contextual disambiguation effects in healthy aged individuals and individuals with senile dementia of the Alzheimer type, *Brain and Language*, *40*, 181-201.
- Abrams, R.A., & Balota, D.A. (1991). Mental chronometry: Beyond reaction time. *Psychological Science*, *2*, 153-157.
- Shields, L. W., & Balota, D.A. (1992). Repetition and associative context effects in speech production. *Language and Speech*, *34*, 47-55.
- Balota, D.A., Black, S., & Cheney, M. (1992). Automatic and attentional processes in young and older adults: A reevaluation of the two-process model of semantic priming, *Journal of Experimental Psychology: Human Perception and Performance*, *18*, 485-502.
- Connor, L.T., Balota, D.A., & Neely, J.H. (1992). On the relation between feeling of knowing and lexical decision: Persistent subthreshold activation or topic familiarity? *Journal of Experimental Psychology: Learning, Memory and Cognition*, *18*, 544-554.
- LaBarge, E., Balota, D.A., Storandt, M., & Smith, D.S. (1992). An analysis of confrontation naming errors in senile dementia of the Alzheimer type. *Neuropsychology*, *6*, 77-95.
- Ferraro, F.R., Balota, D.A., & Connor, L.T. (1993). Implicit memory and the formation of new associations in non-demented Parkinson's disease individuals and individuals with Senile Dementia of the Alzheimer Type: A serial reaction time (SRT) investigation. *Brain and Cognition*, *21*, 163 - 180.
- Balota, D.A., & Ferraro, F.R. (1993). A dissociation of frequency and regularity effects in pronunciation performance across young adults, older adults, and individuals with senile dementia of the Alzheimers Type. *Journal of Memory and Language*, *32*, 573-592.
- Verdolini-Marston, K., & Balota, D.A. (1994). The role of elaborative and perceptual integrative processes in perceptual-motor performance. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*, 739-749.

Duchek, J.M., Balota, D.A., Ferraro, F.R. (1994). Component analysis of a rhythmic finger tapping task in individuals with senile dementia of the Alzheimer type and in Parkinson's Disease individuals. *Neuropsychology*, *8*, 218-226.

Lyons, K., Kemper, S., LaBarge, E., Ferraro, F.R., Balota, D.A., Storandt, M. (1994). Oral language and Alzheimer's disease: A reduction in syntactic complexity. *Aging and Cognition*, *1*, 271-281.

Duchek, J.M., Balota, D.A., Faust, M.E., & Ferraro, F.R. (1995). Inhibitory processes in young and older adults in a picture-word task. *Aging and Cognition*, *2*, 1-111.

Balota, D.A. & Abrams, R.A. (1995). Mental chronometry: Beyond onset latencies in the lexical decision task. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *21*, 1289-1302.

Sullivan, M.P., Faust, M.E., Balota, D.A. (1995). Identity negative priming in older adults and in individuals with dementia of the Alzheimers type. *Neuropsychology*, *9*, 537 - 555.

Balota, D.A., & Ferraro, F.R. (1996). Lexical, sublexical, and implicit memory processes in healthy young, healthy older adults and in individuals with dementia of the Alzheimer Type. *Neuropsychology*, *10*, 82 - 95.

Fiez, J.A., Raichle, M.E., Balota, D.A., Tallal, P., Petersen, S.E. (1996). PET activation of posterior temporal regions during auditory word presentation and verb generation. *Cerebral Cortex*, *6*, 1 - 10.

Multhaup, K.S., Balota, D.A., & Cowan, N. (1996). Implications of aging, lexicality, and item length for the mechanisms underlying memory span. *Psychonomic Bulletin & Review*, *3*, 112 - 120.

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- Balota, D.A., & Black, S. (1997). Semantic satiation in healthy young and older adults. *Memory & Cognition, 25*, 190-202.
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- Kanne, S.M., Balota, D.A., Spieler, D., Faust, M.E. (1998). Explorations of Cohen, Dunbar, and McClelland's (1990) Connectionist Model of Stroop Performance. *Psychological Review, 105*, 174-187.
- Kanne, S.M., Balota, D.A., McKeel, D.W., Storandt, M., & Morris, J.C. (1998). Relating anatomy to function in Alzheimer's disease: Neuropsychological profiles predict regional neuropathology five years later. *Neurology, 50*, 979-985.
- Balota, D.A., & Spieler, D. (1999). Word frequency, repetition, and lexicality effects in word recognition tasks: Beyond measures of central tendency. *Journal of Experimental Psychology: General, 128*, 32-55..
- Balota, D.A., Cortese, M.J., Duchek, J.M., Adams, D., Roediger, H.L., McDermott, K.B., & Yerys, B.E. (1999). Veridical and false memories in healthy older adults and in dementia of the Alzheimer's Type. *Cognitive Neuropsychology, 16*, 361-384.
- Balota, D.A., Watson, J.M., Duchek, J.M. & Ferraro, F.R. (1999). Cross-modal semantic and homograph priming in healthy young, healthy old, and in Alzheimer's disease individuals. *Journal of International Neuropsychological Society, 5*, 626-640.
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- Ferraro, F.R., & Balota, D.A. (1999). Memory scanning performance in healthy young adults, healthy older adults, and individuals with dementia of the Alzheimer Type. *Aging, Neuropsychology, and Cognition*, *6*, 260-272.
- Fiez, J.A., Balota, D.A., Raichle, M.E., Petersen, S.E. (1999). Effects of frequency, spelling-to-sound consistency, and lexicality on the functional anatomy of reading. *Neuron*, *24*, 205-218.
- Balota, D.A., Law, M.B., & Zevin, J.D. (2000). The attentional control of lexical processing pathways: Reversing the word frequency effect. *Memory and Cognition*, *28*, 1081-1090.
- Spieler, D.H., & Balota, D.A. (2000). Factors influences word naming in younger and older adults. *Psychology and Aging*, *15*, 225-231.
- Spieler, D.H., Balota, D.A., & Faust. (2000). Levels of selective attention revealed through analyses of reaction time distributions. *Journal of Experimental Psychology: Human Perception and Performance*, *26*, 506-526.
- Pilotti, M., Balota, D.A., Sommers, M., & Khurshid, A. (2000). Auditory habituation in young and older adults: The verbal transformation and semantic satiation effects. *Psychology and Aging*, *15*, 313-322.
- Zevin, J.D., Balota, D.A.. (2000). Priming and attentional control of lexical and sublexical pathways during naming. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *26*, 121-136.
- Watson, J.M., Balota, D.A., & Sergent-Marshall, S.D. (2001). Semantic, phonological, and hybrid veridical and false memories in healthy older adults and in individuals with Dementia of the Alzheimer Type, *Neuropsychology*, *15*, 254-267.
- Morris, J.C, & Balota, D.A. (2001). Semantic dementia versus Alzheimer's Disease: A matter of semantics? *Neurology*, *57*, 173-174.
- Balota, D.A., Pilotti, M., & Cortese, M.J. (2001). Subjective frequency estimates for 2,938 monosyllabic words. *Memory & Cognition*, *29*, 639-647.
- Faust, M.E., Balota, D.A., & Spieler, D.H. (2001). Building episodic connections: Changes in episodic priming with age and dementia. *Neuropsychology*, *15*, 626-637.
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- Balota, D.A., Burgess, G.C., Cortese, M.J., Adams, D.R. (2002). Memory for the infrequent in young, old, and early stage Alzheimer's Disease: Evidence for two processes in episodic recognition performance. *Journal of Memory and Language*, *46*, 199-226.
- Cortese, M.J., Balota, D.A., Sergent-Marshall, S.D., & Buckner, R.L. (2003). Spelling via semantics and phonology: exploring the effects of age, Alzheimer's Disease, and primary semantic dementia. *Neuropsychologia*, *41*, 952-967.
- Hutchison, K., & Balota, D.A. (2003). Structure vs. Processing Deficits in zheimer's Disease: A Matter of Degree (A Comment on Storms, Dirikx, Saerens, Verstraeten, & De Deyn, 2003). *Neuropsychology*, *17*, 306-309.

- Johnson, D.K., Storandt, M., & Balota, D.A. (2003). A discourse analysis of logical memory recall in normal aging and in dementia of the Alzheimer Type. *Neuropsychology, 17*, 82-92.
- Logan, J.M., & Balota, D.A. (2003). Conscious and unconscious lexical retrieval blocking in younger and older adults. *Psychology & Aging, 18*, 537-550.
- Multhaup, K.M., Balota, D.A., & Faust, M.E. (2003). Release from proactive interference in healthy older adults and in early stage Alzheimer's Disease. *Journal of the International Neuropsychological Society, 9*, 830-838.
- Watson, J.M., Balota, D.A., Roediger, III (2003). Creating false memories with hybrid lists of semantic and phonological associates: Over-additive false memories produced by converging associative networks. *Journal of Memory & Language, 49*, 95-118.
- Marsh, E.J., Dolan, P.O., Balota, D.A., & Roediger, H.R.L. III (2004). Part set cuing effects in younger and older adults. *Psychology and Aging, 19*, 134-144.
- Watson, J.M., McDermott, K.B., & Balota, D.A. (2004). Attempting to avoid false memories in the Deese/Roediger-McDermott paradigm: Assessing the combined influence of practice and warnings in young and old adults. *Memory & Cognition, 32*, 135-141
- Balota, D.A., Cortese, M.J., Sergent-Marshall, S.D., Spieler, D.H., & Yap, M.J. (2004). Visual word recognition of single-syllable words. *Journal of Experimental Psychology: General, 133*, 283-316.
- Faust, M.E., Balota, D.A., & Multhaup, K.S. (2004). Phonological blocking during picture naming in dementia of the Alzheimer Type. *Neuropsychology, 18*, 526-536.
- Hutchison, K.A., & Balota, D.A. (2005). Decoupling semantic and associative information in false memories: Explorations with semantically ambiguous and unambiguous critical lures. *Journal of Memory and Language, 52*, 1-28.
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- Marsh, E.M., Balota, D.A., & Roediger, H.L. III (2005). Learning facts from fiction: The effects of healthy aging and early stage dementia of the Alzheimer's type. *Neuropsychology, 19*, 115-129.
- Duchek, J.M., & Balota, D.A. (2005). Switching and Controlling Attention in Healthy Aging and Early Stage Dementia of the Alzheimer Type: Evidence from Dichotic Listening. *Neuropsychology, 19*, 687-695.
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- Duchek, J.M., Balota, D.A., & Cortese, M.J. Prospective memory and apolipoprotein E in healthy aging and early stage Alzheimer's Disease. (2006). *Neuropsychology*, 20, 633-644.
- Cortese, M.J., Balota, D.A., Sergent-Marshall, S.D., Buckner, R.L., & Gold, B.T. (2006). Consistency and regularity in past tense verb generation in healthy aging, Alzheimer's Disease, and Semantic Dementia. *Cognitive Neuropsychology*, 23, 856-876.
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Cortese, M.J., & Balota, D.A. (2012). Visual Word Recognition in skilled adult readers. In M. J. Spivey, K. McRae, & M.F. Joanisse (Eds.), *The Cambridge Handbook of Psycholinguistics* (pp. 159-185). Cambridge University Press. New

Balota, D.A., Yap, M.J., Hutchison, K. A., & Cortese, M.I. (2013). Megastudies of Visual Word Recognition: What do millions (or so) of trials tell us about lexical processing. In J. S. Adelman (Ed.) *Visual Word Recognition Volume 1: Models and methods, orthography and phonology* (pp. 90-115). New York, NY: Psychology Press.

Yap, M., & Balota, D.A. (2015). Visual Word Recognition. In A. Pollatsek & R. Treiman (Eds.), *Oxford handbook of reading*. (pp. 26-43). New York, U.S.: Oxford University Press.

Balota, D.A., & Duchek, J.M. (2015). Attention, variability, and biomarkers in Alzheimer's disease. To appear in D.S., Lindsay, C.M. Kelley, A.P. Yonelinas, and H.L. Roediger III (Eds), *Remembering: Attributions, processes, and control in human memory (in honour of Larry L. Jacoby)*. (pp. 285-304). New York: Psychology Press.

Books

Balota, D.A., Flores D'Arcais, G., & Rayner, K. (Eds.), *Comprehension Processes in Reading*, Lawrence Erlbaum, 1990.

Balota, D.A., & Marsh, E. J. (Eds.) *Cognitive Psychology: Essential Readings*. Psychology Press, 2004.

Invited Lectures

Purdue University (1986)
 University of Missouri at Columbia (1986, 1992)
 University of South Dakota (1986)
 The Central Institute for the Deaf, Washington University (1987)
 University of Nijmegen, The Netherlands (1987)
 The Netherlands Institute for Advanced Study (1987)
 University of Leiden, The Netherlands (1988)
 University of Brussels, Belgium (1988)
 Washington University Medical School (1988)
 The University of Georgia (1989)
 The Max Planck Institute for Psycholinguistics, The Netherlands (1990)
The Governor's Conference on Aging (1990)
 VA Symposium on *Memory in Aging and Aging-Related Disorders* (1990)
 Indiana University (1991)
American Psychological Association (1991) invited address for *Division 3*
 International Congress of Psychology (1992, Brussels)

McDonnell-Pew Center for Cognitive Neuroscience (1993) UCSD
 The XVth Congress of Gerontology (1993, Budapest)
 McMaster University, Hamilton, Ontario (1993)
 University of Illinois, Beckman Institute (1994)
 Overview talk at Cognitive Aging Conference, Atlanta, GA (1996)
 Ohio State University (1996)
 University of Canterbury, New Zealand (1996)
 University of Otago, New Zealand (1996)
 Memory Symposium, Washington University (1997)
 Georgia Tech University, Atlanta (1997)
 NIH IDEA conference, University of North Dakota (1998)
 Kendon Smith Lecture Series, University of North Carolina at Greensboro (1998)
 Memory Disorders Society, Boston (1998)
 Midwestern Psychological Association, Chicago (1999)
 Crowder Symposium, Yale University (1999)
 American Psychological Society (1999)
 Ambiguity Conference, Arlington Texas (2000)
 Humboldt University, Berlin, Germany (2000)
 University of Toronto, St. George Campus (2001)
 University of California at Riverside (2001)
 University of California at San Diego (2002) 2 talks in Cognitive Science Department
 University of California at Santa Barbara (2002)
 University of South Carolina (2002)
 BASICS, Keynote, Banff, CA (2003)
 Presidential Address, Division 3, APA, Toronto, CA (2003)
 Sydney Work Shop on Word Recognition (2003)
 Arlington Texas, Inhibition Conference (2005)
 St. Louis, Missouri, Semantics Conference (2005)
 Purdue University, Memory Conference (2005)
 Keynote Speaker at the Showme Conference (2005)
 Keynote Speaker at the GUV Conference (2005)
 Syracuse University (2005)
 Plenary Talk at Cognitive Aging Conference, Atlanta (2006)
 Rice University (2006)
 APA, Toronto (2009)
 U. of Illinois (2010)
 Colby College (2010)
 U. of Montana (2010)
 U. of Barcelona (2010)
 Max Planck Institute (2010), Nijmegen
 Psycholinguistics in Flanders Conference (2010), Ghent, Belgium, Keynote
 University of Toronto (2011).
 University of Southern Illinois at Carbondale (2012).
 U of California at Santa Barbara, Summer Institute for Cognitive Neuroscience (2012).
 Indiana University (2012)
 Washington University Medical School, Grand Rounds (2012).

Washington University (2013), Jacoby Festschrift
 Macquarie University, (2013), Keynote Speaker
 Macquarie University (2013), Public Lecture
 Macquarie University (2013), Colloquium
 University of Toronto (2014), 24th Annual Rotman Research Conference
 DART Neuroscience (2014), Biomarkers of Memory
 Elon University (2015), Keynote at North Carolina Cognition Conference
 BASICS, Keynote Speaker (2015), Banff, CA
 Rhodes University (2015), Colloquium
 San Diego State University (2016), Colloquium
 University of Texas at El Paso (2016), ARMADILLO Conference, Keynote Speaker
 University of Texas at El Paso (2016), Colloquium
 University of California at San Diego (2017), Colloquium
 University of Wisconsin at Madison (2017), Invited Speaker at *Data outside the Lab* conference.
 Tsinghua University (2019)
 Chinese National Academy of Science (2019)
 Nanjing University (2019)
 Huadong Normal University (2019)
 East China Normal University (2019)
 Chinese University of Hong Kong (2019)
 Invited Seminar on Language Processing broadcast to 300 Chinese Universities (2020)
 Society for Philosophy and Psychology, Presidential Invited Address (2020)

Conference Presentations

Have made over 100 presentations at various conferences including the Psychonomics Society, Cognitive Aging Conference, Midwestern Psychological Association Conference, Eastern Psychological Association Conference, Southeastern Psychological Association Conference, and the International Congress of Psychology

Grants: Past 3 Years

5R01 AG049369-04 (E. Lenze, PI) 9/30/14-5/31/2019
Remediating Age Related Cognitive Decline: Mindfulness-Based Stress Reduction and Exercise
 NIH/NIA

Role: Co-Investigator (.60 CM)

PD 09-7252 (D. Balota, PI) 1/1/2018-12/31/2020
 NSF/PAC

Rejuvenating the English Lexicon Project

Role: PI

1R03MH115246-01A1 (English) 7/1/2018-6/30/2020
 NIH/NIA

The Role of Cognitive and Social Processes in Emotion Regulation Across Adulthood

Role: Co-Investigator (1.0 CM)

1R21 AG057937-01 (J. Bugg) 4/01/2018 – 3/31/2020

NIH/NIA

Memory-Based Attentional Control: A Behavioral Biomarker for Preclinical and Early Stage Alzheimer's Disease?

Role: Co-Investigator (.60 CM)

Grants Active:

5T32AG000030-42 05/01/2017-04/30/2022

Aging and Development

NIH/NIA

Role: Director

5P01AG003991-35 (J. Morris, PI) 05/01/2019-04/30/2024

Healthy Aging and Senile Dementia

NIH/NIA

Role: Co-Investigator (.60 CM)

1R01AG057840-01A1 (Hassenstab) 9/1/2018-8/31/2023

NIH/NIA

Optimizing Cognitive Assessment in DIAN with Smartphone-Based Burst Testing

Role: Co-Investigator (.60 CM)

1R01AG057680-01A1 (Stark/Ances) 7/01/18-06/30/23

NIH/NIA

FALLS: A Marker of Preclinical Alzheimer's disease

Role: Co-Investigator (1.20 CM)

Areas of Interest

Aging and Cognition; Cognitive Changes in Alzheimer's Disease; Word Recognition; Semantic Memory; Chronometric Analyses; Controlled vs Automatic Processing; Reading; Echoic Memory; Threshold Priming; Neural Substrates of Cognitive Performance

Courses Taught

Cognitive Psychology, 360, Washington University
Mind-Brain, HP120, Washington University
Experimental Psychology, 301, Washington University
Psychology and Language, 433, Washington University
Memory and Cognition, 508, Washington University
Advanced Topics in Cognitive Psychology, 5081, Washington University
Visual Word Recognition Seminar, 5081, Washington University
Inhibitory Systems in Cognition, 5081, Washington University
Introductory Psychology, 100, University of Kentucky
Psychology of Learning, 330, Iowa State University
Learning and Memory, 520, Iowa State University

University Responsibilities

Associate Chairperson of Department of Psychology 96 - 2004
 Director of Linguistics Program. 92-95, and 2002-2013
 Coordinator of Cognitive Science Interdisciplinary Research Group
 Steering Committee Member for PNP program
 Member of Olin Selection Committee, 1996-1999
 Tenure Review and Promotions Committee, 2001-2004
 Review Committee on Faculty Personnel Procedures, 2004-2007, Chair 2007
 Executive Committee for Alzheimers Disease Research Center
 Board of Trustees Faculty Representative (2011- 2014)
 Faculty Senate Council (6/17- 6/20)
 Served on numerous departmental and university committees

Dissertation Core Committees (about 60)

Dissertation Outside Evaluator

G. Glanzenborg, University of Leiden
 Janine Jennings, McMaster University
 Neville Hennesey, University of Western Australia
 Britta Biederman, Macquarie University
 Verena Pritchard, University of Canterbury
 Joyce Alberts, University of Canterbury
 Shannon O'Malley, University of Waterloo
 Karen Cambell, University of Toronto
 Bianca de Wit, Macquarie University
 John Anderson, University of Toronto
 Hagar Feinstein, University of Delaware

Dissertations Directed

Sheila Black (Associate Professor at the University of Alabama, Tuscaloosa)
 Lisa Connor (Professor and Chair of Occupational Therapy at Washington University)
 Katherine Verdolini-Marston (Professor at University of Delaware)
 Lynne Shields (Professor at Fontbonne College, retired)
 Daniel Spieler (Associate Professor at Georgia Tech University)
 Stephen Kanne (Professor at University of Missouri at Columbia)
 Christopher Brady (Research Associate at Boston VA, Asst Professor at Boston U)
 Becky Allen-Burge (Professor at the University of Alabama, Tuscaloosa)
 Jason Watson (Associate Professor, University of Colorado at Denver)
 Jessica Logan (Assistant Professor, Rice University)
 Melvin Yap (Professor, University of Singapore)
 Jennifer Coane (Associate Professor, Colby College)
 Geoffrey Maddox (Associate Professor, Rhodes College)
 Emily Cohen-Shikora (Lecturer Washington University)
 Andy Aschenbrenner (Asst Professor, Research Track, Washington U, Dept of Neurology)
 Peter Millar (Postdoc, Washington University)
 Abhilasha Kumar (Postdoc, Indiana University, Asst, Professor Bowdoin University)
 Jessica Nicosia (Postdoc, Washington University, Dept of Neurology)_

Post Doctoral Advisor for:

Richard Ferraro, NIA grant AG10193 (Professor at the University of North Dakota)

Mark Faust, NIA grant AG10194 (Professor at U. of North Carolina at Charlotte)
 Steven Paul, NIA training grant (Professor at Robert Morris University)
 Kristi Multhaup, NIA training grant (Professor and Chairperson at Davidson College)
 David R. Adams, NIA GRANT AG1093 (Computer Development Corp)
 Mike Cortese, NIA Grant AG1093 (Professor at the University
 of Nebraska at Omaha)
 Maura Pilotti, NRSA (Professor and Chair of Applied Behavioral Science
 Program at Ashford College)
 Patrick O. Dolan, NIA training grant (Professor and Chairperson at Drew College)
 Susan Marshall, NIA Grant (Teaching Professor at U. of Kansas)
 Keith Hutchison, NSF (Professor, University of Montana)
 Alan Castel (Professor, U.C.L.A.)
 Dave McCabe, 50%, (Asst Professor, Colorado State University, deceased)
 Ching-Shing Tse NIA Grant (Assoc. Professor and Chair, University of Hong Kong)
 Ashley Bangert, NIA Training Grant, (Asst Professor, University of Texas at El Paso)
 Mary Pyc, Applied Cognitive Neuroscience, Apple Computer Corporation
 Kótyuk Eszter, Visiting, Hungary Fellowship, Assistant Professor at
 University of Budapest
 Mark Huff, NIA Training Grant, Assoc. Professor at Southern Mississippi University

Undergraduate Research Projects

Honors Students: Total about 15 between Psychology and PNP

Psych 500 Students: Average 2 per year

PNP 2nd Year Mentors: On Average 2 every three years

Professional Activities

Editor

Psychonomic Bulletin & Review (2002 – 2005)

Associate Editor

Journal of Memory and Language (1993 – 1996)

Guest Editor

Special Issue on Megastudies (2014-2015), *Quarterly Journal of Experimental Psychology*

Member of Editorial Board

Journal of Experimental Psychology: Learning, Memory & Cognition
 (1986 - 1992)

Journal of Memory and Language (1988-1992, 1997 - 2002)

Journal of Gerontology: Psychological Sciences (1992 - 1996)

Neuropsychology (1996 - 2002)

Psychological Review (2006- 2015)
Journal of Memory & Language (2009-2021)
Behavior Research Methods (2014-)
Psychonomic Bulletin & Review (2006-)

Ad Hoc Reviewer

Journal of Experimental Psychology: Human Perception and Performance, Science, Journal of Experimental Psychology: General, Psychological Review, Psychological Bulletin, Cognition, Memory & Cognition, Quarterly Journal of Experimental Psychology, Language and Cognitive Processes, Neuropsychologia, Cognitive Neuropsychology, Perception and Psychophysics, Psychology and Aging, Memory, American Journal of Psychology, Canadian Journal of Psychology, Applied Cognitive Psychology, Research Methods, Journal of the International Neuropsychological Society, Behavior Research Methods, Instruments, and Computers, Encyclopedia of Human Biology, National Science Foundation, Air Force Office of Scientific Research, National Institute on Aging, Special Study Section, National Institute on Aging, Training Grant Review, Natural Sciences and Engineering Research Council of Canada, Alzheimer's Disease and Related Disorders Program For Missouri, National Institutes of Health BBBP4 Study Section, NIA Training Grant Study Section

External Department Review Committee

University of Massachusetts at Amherst
 Georgia Tech University
 S.U.N.Y. at Binghamton (twice, 2006 and 2016)
 Singapore University (scheduled, summer 2022)

Membership

The Psychonomic Society (Governing Board Member, 1997-present, Chair, 2003)
 The American Psychological Association (Fellow, Executive Board Member 2000)
 (President of Division 3, 2003-2004)
 The American Psychological Society (Fellow)
 American Association for the Advancement of Science (Fellow)
 Society for Experimental Psychologists
 Advisory Board for Attention & Performance
 The Midwestern Psychological Association (Fellow)
 Sigma XI
 Psi Chi