

**Jessica M. Logan**  
Department of Psychology  
Rice University  
Houston, Texas, 77081  
713-348-3890 Office  
713-348-2808 Lab  
Email: [jessica.logan@rice.edu](mailto:jessica.logan@rice.edu)  
URL: <http://www.owlnet.rice.edu/~jml1/owlnet/>

---

## **EDUCATION**

- Ph.D., Experimental Psychology, Washington University in Saint Louis, 2004  
Dissertation Title: *Spacing and expanded retrieval effects in younger and older adults*  
Committee Chair: David A. Balota
- M.A., Experimental Psychology, Washington University in Saint Louis, 2001  
Thesis Title: *Conscious and unconscious lexical retrieval blocking in younger and older adults*  
Committee Chair: David A. Balota
- B.A., Psychology, B.A., Linguistics, University of Texas at Austin, 1998  
Summa Cum Laude  
Thesis Title: *Integrating temporal information in judgments of causality*  
Committee Chair: Barbara A. Spellman

## **POSITIONS HELD**

Rice University, Houston, Texas  
Assistant Professor, Department of Psychology, August 2006-present

Washington University in St. Louis, St. Louis, Missouri  
Research Associate, Department of Psychology, May 2004-July 2006  
Advisors: Kathleen B. McDermott and Henry L. Roediger, III.

National Institute on Aging Research Trainee, 2003-2004  
Advisor: David A. Balota

National Science Foundation Pre-doctoral Research Fellow, 1998-2001  
Advisor: David A. Balota

## **GRANTS**

- Teagle Foundation Awards for Collegia on Student Learning - \$150,000 (Aug 2008-Aug 2011)  
*Translating Cognitive Research on Learning and Retention into College Classrooms: Collegium of Rice University and the University of Texas Medical School, Houston*  
PI: Jessica Logan  
Co-PIs: Janice Bordeaux (Rice University), Richard Grandy (Rice University), David Marshak (University of Texas Medical School, Houston)
- Social Sciences Undergraduate Research Enterprise, \$1,250, with Andrew Thompson (2007-2008)  
*How Should Students Organize Their Study Time?: The Role of Distributed Practice and Self-Testing in Learning Foreign Language Vocabulary*

Social Sciences Research Institute, Rice University, \$12,000 (2008-2009)  
*Re-Defining Gold Standards of Wisdom in the Cognitive Neuroscience of Aging*

## **RESEARCH PUBLICATIONS**

Conway, M.A., Turk, D.J., Miller, S.L., **Logan, J.**, Nebes, R.D., Meltzer, C.C., Becker, J.T. (1999). A Positron Emission Tomography (PET) study of autobiographical memory retrieval. *Memory*, 7, 679-702.

Buckner, R.L. and **Logan, J.M.** (2001) Functional neuroimaging methods: PET and fMRI. In Cabeza, R. and Kingstone, A. (Eds) *Handbook of Functional Neuroimaging of Cognition*. Cambridge: MIT Press.

Buckner, R.L., **Logan, J.M.**, Donaldson, D.I., and Wheeler, M.E. (2001). Cognitive neuroscience of episodic memory encoding. *Acta Psychologica*, 105, 127-139.

Spellman, B.A., Price, C.M., and **Logan, J.M.** (2001). How two causes are different from one: The use of (un)conditional information in Simpson's Paradox. *Memory & Cognition*, 29, 193-208.

**Logan, J.M.**, Sanders, A.L., Snyder, A.Z., Morris, J.C., & Buckner, R.L. (2002). Under-recruitment and non-selective recruitment: Dissociable neural mechanisms associated with aging. *Neuron*, 33, 827-840.

Buckner, R.L., and **Logan, J.M.** (2002). Frontal contributions to episodic memory encoding in the young and elderly. In Parker, AE, Wilding, EL, and Bussey, T (Eds.), *The Cognitive Neuroscience of Memory Encoding and Retrieval*. Psychology Press:Philadelphia.

Duchek, J.M., & **Logan, J.M.** (2003). Tip of the tongue phenomenon. In JH Byrne (Ed.), *Learning and Memory (2nd edition)*, pp.650-651; Farmington Hills, MI:Macmillan Reference/The Gale Group.

**Logan, J.M.**, and Balota, D.A. (2003). Conscious and unconscious retrieval blocking in younger and older adults. *Psychology and Aging*, 18, 537-550.

Balota, D.A., Duchek, J.M., & **Logan, J.M.** (2006). Is expanded retrieval practice a superior form of spaced retrieval? A critical review of the extant literature. In J. Nairne (Ed.), *Foundation of Remembering: Essays in Honor of Henry L. Roediger, III*.

Castel, A.D., Balota, D.A., Hutchison, K.A., & **Logan, J.M.** (2007). Control of spatial attention in healthy older adults and in early stage Alzheimer's Disease: Evidence for disproportionate selection breakdowns in the Simon task. *Neuropsychology*.

**Logan J.M.**, & Balota, D.A. (2008). Expanded versus equal interval spaced retrieval practice: Exploring different schedules of spacing and retention interval in younger and older adults. *Aging, Neuropsychology, and Cognition*, 15, 257-280.

Lyle, K.B., **Logan, J.M.**, and Roediger, H.L., III. (2008). Eye movements enhance memory for individuals who are strongly right-handed and harm it for individuals who are not. *Psychonomic Bulletin & Review*, 15, 515-520.

## **RESEARCH MANUSCRIPTS IN PREPARATION**

Logan, J.M., & Balota, D.A. The role of retention interval and feedback in spaced retrieval of faces and names.

Logan, J. M., Roediger, H.L., & McDermott, K.B. Spaced retrieval and the effects of inter-item difficulty on learning foreign language vocabulary.

Castel, A.D., & Logan, J.M. Learning about the Spacing Effect: The Role of Experience and Feedback.

### **HIGHER EDUCATION PUBLICATIONS**

**Logan, J.** (2000, October 12). Honoring outstanding mentors. In *Science's Next Wave* [On-line]. Available: [nextwave.sciencemag.org/cgi/content/full/2000/10/12/2](http://nextwave.sciencemag.org/cgi/content/full/2000/10/12/2).

**Logan, J.** (2002, March 29). Integrating technology training into graduate education. In *Science's Next Wave* [On-line]. Available: <http://nextwave.sciencemag.org/cgi/content/full/2002/03/27/2>

**Logan, J.M.** (2002). A Graduate Student Perspective: Exploitation or Opportunity. In the *Proceedings of the 57th Annual Meeting of the Midwestern Association of Graduate Schools: Ethical Challenges for Graduate Education*, pp. 51-56.

### **INVITED TALKS**

Scientia Institute, Rice University, October 2007

*"Brain and Behavior: How We Create and Maintain Memory in Early Adulthood and Advanced Age"*

Department of Neurobiology & Neuroanatomy, University of Texas Medical School, Houston, October 2007

*"Teaching The Mind New Tricks: How Strategy Use Impacts Learning and Retention in Early Adulthood to Advanced Age"*

### **PRESENTATIONS AT NATIONAL CONFERENCES**

**Logan, J.M.**, Kelley, W.M. and Buckner, R.L. (2000, April). *Inferior and dorsal frontal cortex play distinct roles in episodic memory formation*. Poster presentation, Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.

**Logan, J.M.**, and Balota, D. A. (2000, April). *Blocking word retrieval in younger and older adults*. Poster presentation, Cognitive Aging Conference, Atlanta, GA. Logan, J.M. (2000, October). *Honoring outstanding mentors*. Seminar presented at the National Association of Graduate and Professional Students National Conference, Nashville, TN.

**Logan, J.M.**, and Buckner, R.L. (2001, March). *Age-related changes in the neural correlates of encoding*. Poster presentation, Cognitive Neuroscience Society Annual Meeting, New York, NY.

**Logan, J.M.**, and Balota, D.A. (2004, April). *Spaced and expanded retrieval effects in younger and older adults*. Poster presented, Cognitive Aging Conference, Atlanta, GA.

**Logan, J.M.**, Balota, D.A., Duchek, J.M., and Sergent-Marshall, S. (2004, November). *Memory Conjunction Errors In Healthy Aging And Alzheimer's Disease*. Poster presented, Annual Meeting of the Psychonomic Society, Minneapolis, MN.

Balota, D.A., Duchek, J.M., & **Logan, J.M.** (2005, March). *Is expanded retrieval practice a superior form of spaced retrieval?* Invited talk, Roddyfest Conference, Purdue University.

**Logan, J.M.**, and Balota, D. A. (2006, April). *Using Spaced Retrieval Practice to Learn Faces and Names.* Plenary talk, Cognitive Aging Conference, Atlanta, Georgia.

Lyle, K.B., **Logan, J.M.**, and Roediger, H.L., III. (2006, November). *Does Moving Your Eyes Before a Memory Test Enhance Performance?* Poster presented, Annual Meeting of the Psychonomic Society, Houston, TX.

**Logan, J.M.**, Roediger, H.L., III, and McDermott, K.B. (2006, November). *Using Spaced Retrieval Practice to Learn Foreign Language Vocabulary.* Paper presented, Annual Meeting of the Psychonomic Society, Houston, TX.

Castel, A.D., and **Logan, J.M.** (2007, November). *Learning about the Spacing Effect: The Role of Experience and Feedback.* Poster presented, Annual Meeting of the Psychonomic Society, Long Beach, CA.

Meyer, A.N., and **Logan, J.M.** (2007, November). *Subject-Controlled Feedback in a Verbal Learning Task.* Poster presented, Annual Meeting of the Psychonomic Society, Long Beach, CA.

## **TEACHING EXPERIENCE**

### Graduate Courses

Rice University – Department of Psychology, Assistant Professor  
*Memory and Aging, 2006*  
*Memory, 2008*

### Undergraduate Courses

Washington University in St. Louis – Department of Psychology, Instructor  
*Seminar: Introduction to Psychology, 2004, 2005, 2006*

University of Missouri, St. Louis – Department of Gerontology, Instructor  
*Aging in America, 2004, 2005*  
*Adult Development and Aging, 2006*

Rice University – Department of Psychology, Assistant Professor  
*Research Methods, 2006, 2007, 2008*  
*Advanced Cognitive Topics: Memory and Aging, 2006*  
*Neuropsychology of Memory and Language, 2008*

## **STUDENT SUPERVISION**

### **Primary Advisor for Ph.D. Students**

Ashley N.D. Meyer, 2006 – present  
Sara H. Haber, 2007 – present  
Genues Avci, 2008 – present

### **Primary Advisor for Undergraduate Students (Independent Research)**

Andrew J. Thompson, 2007-present (SSURE Program; Senior Honors Thesis)  
Alex Young, 2007-present (Century Scholar)

## **ACADEMIC HONORS**

National Science Foundation Graduate Research Fellowship

National Honor Society of Phi Kappa Phi Fellowship

Phi Beta Kappa

Graduate Student Award, for scholarly excellence and leadership potential, Association of Women Faculty, Washington University Chapter, 2000

Julia Gehm Scholarship for Outstanding Student Leadership, Graduate School of Arts and Sciences, 2000-2001

Roma Schaefer Nooter Scholar in Psychology, for research in cognitive aging, Washington University, 2001

Richard and Mildred Poletsky Education Award, for future promise in aging and dementia research, Washington University Alzheimer's Disease Research Center, 2001

First Place, Social Sciences Division, Graduate Student Senate Research Symposium, 2002

Graduate Student Senate Leadership Award, for founding Outstanding Faculty Mentor Awards, Washington University, 2004

Student Marshal, Commencement, Graduate School of Arts and Sciences, Washington University, 2004

Finalist, Phi Beta Kappa Teaching Prize, Rice University, 2008

## **ACADEMIC SERVICE**

### **National**

Board of Directors, National Association of Graduate and Professional Students, 2000-2001

Campus Representative, *Science's NextWave*, 2001-2004

Graduate Student Representative, NSF/NIH Fellowship Stipend Steering Committee, Washington D.C., 2002-2003

### **Departmental/University**

President, Graduate Student Senate, Graduate School of Arts and Sciences, Washington University, 1999-2000

Graduate Student Representative, Board of Trustees, Washington University, 2000-2001

Graduate Student Senate, Chair, Peer Mentoring Committee, 2000-2002

Psi Chi Advisor, Rice University, Fall 2007, Fall 2008

Undergraduate Advising Committee, Department of Psychology, Rice University, 2007-present

Resident Faculty Associate, Baker College, Rice University, 2008-present

**REVIEWING FOR PROFESSIONAL JOURNALS**

*Brain and Cognition; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Neuroscience; Neuropsychology; Psychonomic Bulletin and Review; Psychology and Aging; Memory & Cognition*

**PROFESSIONAL ORGANIZATIONS**

Psychonomic Society  
American Psychological Association  
Society for Psychological Science  
Cognitive Neuroscience Society