

Background

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Education

B.S., Psychology, Summa cum laude, University Honors Scholar, Wright State University, 1985.

Honors Thesis: *Codes of Processing and Multiple Resources: Model and Methodology*.

Advisor: Prof. F. T. Eggemeier.

M.S., Cognitive Psychology, Purdue University, 1987. Thesis: *An Examination of a Method for the Study of Implicit Learning*. Advisor: Prof. H. L. Roediger, III.

Ph.D., Cognitive Psychology, Purdue University, 1989. Dissertation: *Chunking and Implicit Pattern Learning in a Serial Reaction Time Task*. Advisor: Prof. H. L. Roediger, III.

Employment

Undergraduate Assistant, 1983-1985, Department of Psychology, Wright State University

Graduate Assistant, 1985-1989, Department of Psychology, Purdue University

Assistant Professor, 1989-1992, Department of Psychology, Louisiana State University

Assistant Professor, 1992-1998, Department of Psychology, University of Missouri-Columbia

Associate Professor, 1998-present, Department of Psychology, University of Missouri-Columbia

Associate Director for Programs and Curriculum, 2005-present, Honors College, University of Missouri-Columbia

Publications

Stadler, M. A. (1989). On learning complex procedural knowledge. *Journal of Experimental Psychology: Learning Memory, and Cognition*, *15*, 1061-1069.

Stadler, M. A., & Logan, G. D. (1989). Is there a search in fixed-set memory search? *Memory & Cognition*, *17*, 723-728.

- Stadler, M. A., & McDaniel, M. A. (1990). On imaging and seeing: Repetition priming and interactive views of imagery. *Psychological Research, 52*, 366-370.
- Logan, G. D., & Stadler, M. A. (1991). Mechanisms of performance improvement in consistent-mapping memory search: Automaticity or strategy shift? *Journal of Experimental Psychology: Learning, Memory, and Cognition, 17*, 478-496.
- Stadler, M. A. (1992). Statistical structure and implicit serial learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 18*, 318-327.
- Roediger, H. L., Weldon, M. S., Stadler, M. A., Riegler, G. L. (1992). Direct comparison of two implicit memory tests: Word stem and word fragment completion. *Journal of Experimental Psychology: Learning, Memory, and Cognition, 18*, 1251-1269.
- Stadler, M. A. (1993). Implicit serial learning: Questions inspired by Hebb (1961). *Memory & Cognition, 21*, 819-827.
- Stadler, M. A., & Frensch, P. A. (1994). Whither learning, whither memory? *Behavioral and Brain Sciences, 17*, 423-424.
- Stadler, M. A. (1994). Technical comment: Explicit and implicit learning and maps of cortical motor output. *Science, 265*, 1600.
- Stadler, M. A. (1995). Role of attention in implicit serial learning. *Journal of Experimental Psychology: Learning, Memory and Cognition, 21*, 674-685.
- Cherry, K. C., & Stadler, M. A. (1995). Implicit learning of a nonverbal sequence in younger and older adults. *Psychology and Aging, 10*, 379-394.
- Johnstone, B., Erdal, K., & Stadler, M. A. (1995). The clinical utility of the WMS-R Attention Index. *Journal of Clinical Psychology in Medical Settings, 2*, 195-204.
- Stadler, M. A. & Hogan, M. E. (1996). Varieties of positive and negative priming. *Psychonomic Bulletin & Review, 3*, 87-90.
- Cowan, N., & Stadler, M. A. (1996). Estimating unconscious processes: Implications of a general class of models. *Journal of Experimental Psychology: General, 125*, 195-200.
- Stadler, M. A. (1997). Distinguishing implicit and explicit learning. *Psychonomic Bulletin & Review, 4*, 56-62.
- Stadler, M. A. & Neely, C. B. (1997). Effects of sequence length and structure on implicit serial learning. *Psychological Research, 60*, 14-23.
- Wood, N., Stadler, M. A., & Cowan, N. (1997). Memory without attention? A replication of Eich (1984) and failure to extend. *Memory & Cognition, 25*, 772-779.
- Stadler, M. A. & Frensch, P. A. (Eds., 1998). *Handbook of Implicit Learning*. Thousand Oaks, CA: Sage Publications.
- Stadler, M. A. & Roediger, H. L., III (1998). The question of awareness in implicit serial learning. In M. A. Stadler and P. A. Frensch (Eds.), *Handbook of Implicit Learning* (pp. 105-132). Thousand Oaks, CA: Sage Publications.
- Stadler, M. A. (1998). Demonstrating scientific reasoning. *Teaching of Psychology, 25*, 205-206. [Reprinted as Stadler, M. A. (2000). Demonstrating scientific reasoning. In M. E. Ware and D. E. Johnson (Eds.), *Handbook of Demonstrations and Activities in the Teaching of Psychology*,

- Vol. 1: Introductory, Statistics, Research Methods, and History* (pp. 123-125). Mahwah, New Jersey: Erlbaum.]
- Stadler, M. A. (1999). Book Review: *Implicit Cognition*. *British Journal of Developmental Psychology*, *17*, 315-316.
- Stadler, M. A., Roediger, H. L., & McDermott, K. B. (1999). Norms for word lists that create false memories. *Memory & Cognition*, *27*, 494-500.
- Cowan, N., Rouder, J. N., & Stadler, M. A. (2000). Book Review: Conjuring a work from the dream time of cognitive psychology. *American Journal of Psychology*, *113*, 661-670.
- Stadler, M. A., Warren, J., & Lesch, S. (2000). Is there cross-format transfer in implicit invariance learning? *Quarterly Journal of Experimental Psychology*, *53*, 235-246.
- Fabiani, M., Stadler, M. A., & Wessels, P. M. (2000). True, but not false, memories produce a sensory signature in human lateralized brain potentials. *Journal of Cognitive Neuroscience*, *13*, 941-949.
- Roediger, H. L. III, & Stadler, M. A. (2001). Robert G. Crowder and His Intellectual Heritage. In H. L. Roediger, III, J. S. Nairne, I. Neath, and A. Surprenant (Eds.), *The Nature of Remembering: Essays in Honor of Robert G. Crowder* (pp. 3-16). Washington, D.C.: American Psychological Association.
- Stadler, M. A., Geary, D. C., and Hogan, M. E. (2001). Negative priming from automatic retrieval of math facts. *Psychological Research*, *65*, 24-27.
- Stadler, M. (forthcoming 2006). *The Psychology of Baseball*. New York: Gotham Books.
- Strathman, A. & Stadler, M. A. (forthcoming 2007). *The Psychology of Everyday Life: An Introduction to Psychology*. New York: Worth.

Presentations and Published Abstracts

- Eggemeier, F. T. & Stadler, M. A. (1984, June). *Subjective Workload Assessment in a Spatial Memory Task*. Presented at the Annual Meeting of the Human Factors Society, San Antonio, Texas.
- Eggemeier, F. T. & Stadler, M. A. (1984, August). *Processing Resources and Timesharing Performance*. Presented at the Annual Meeting of the American Psychological Association, Toronto.
- Logan, G. D. & Stadler, M. A. (1986, November). *Artifactual Automaticity: When The Superset Supersedes the Memory Set*. Presented at the Annual Meeting of the Psychonomic Society, New Orleans, Louisiana.
- Roediger, H. L., Weldon, M. S., & Stadler, M. A. (1987, November). *Direct Comparison of Two Implicit Measures of Retention*. Presented at the Annual Meeting of the Psychonomic Society, Seattle, Washington.
- Stadler, M. A. & Logan, G. D. (1987, May). *Repetition Priming and Memory Search*. Presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, Illinois.
- Stadler, M. A. (1990, May). *Sequence-Specific Learning and the Hebb Repetition Effect*. Presented at the Annual Texas Conference on Cognition, San Antonio, Texas.

- Stadler, M. A. (1990, November). *Statistical Structure and Sequence-Specific Learning in a Serial RT Task*. Poster presented at the Annual Meeting of the Psychonomic Society, New Orleans, Louisiana.
- Stadler, M. A. (1992, May). *Attention and Implicit Serial Learning*. Presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, Illinois.
- Cherry, K. C., & Stadler, M. A. (1992, April). *Implicit learning of a nonverbal sequence in young and older adults*. Presented at the Cognitive Aging Conference, Atlanta, GA.
- Stadler, M. A. and Proctor, R. W. (1993, November). *Attention and Covariation Learning in the Eriksen Flanker Task*. Presented at the Annual Meeting of the Psychonomic Society, Washington, D.C.
- Stadler, M. A. and Cherry, K. C. (1994, April). *Adult Age Differences in Implicit Learning of a Non-Verbal Sequence*. Presented at the Cognitive Aging Conference, Atlanta, GA.
- Stadler, M. A. and Hogan, M. E. (1994, May). *Varieties of Positive and Negative Priming*. Presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, Illinois.
- Stadler, M. A. (1994, November). *Part-Whole Transfer in Implicit Serial Learning*. Poster presented at the Annual Meeting of the Psychonomic Society, St. Louis.
- Wood, N. L., Stadler, M. A., & Cowan, N. (1995, November). *Memory Without Attention in Eich's (1984) Procedure? Not so Fast!* Presented at the Annual Meeting of the Psychonomic Society, Los Angeles.
- Threlkeld, Robert C., Wessels, P., Stadler, M. A., & Schachtman, T. R. (1996, May). *Blocking and Human Covariation Learning*. Poster presented at the Annual Meeting of the Midwestern Psychological Association, Chicago, Illinois.
- Stadler, M. A. (1997, November). *Benefits and Costs in Implicit Learning in Serial RT Tasks*. Paper presented at the Annual Meeting of the Psychonomic Society, Philadelphia, PA. [Published abstract: Stadler, M. A. (1999). Benefits and costs in implicit learning in serial RT tasks. *Abstracts of the Psychonomic Society*, 2, 15.]
- Wessels, P.M., Fabiani, M., & Stadler, M. A. (1999, April). *False Memory in an Event-Related Brain Potential Paradigm Involving Lateralized Presentation of Associative Word Lists*. Poster presented at the 6th Annual Meeting of the Cognitive Neuroscience Society, Washington, D.C.
- Stadler, M. A., Wessels, P., & Fabiani, M. (1999, November). *ERPs Reveal Sensory Signatures for True but Not False Memories*. Poster presented at the Annual Meeting of the Psychonomic Society, Los Angeles. [Published abstract: Stadler, M. A., Wessels, P., & Stadler, M. A. (1999). ERPs reveal sensory signatures for true but not false memories. *Abstracts of the Psychonomic Society*, 4, 40.]
- Fabiani, M., Stadler, M. A., Wessels, P. M. (2000, February). True but not false memories produce a sensory signature in human lateralized brain potentials. Paper presented at the 10th World Congress of the International Organization of Psychophysiology, Sydney, Australia.
- Fabiani, M., Wessels, P.M., Stadler, M. A., & Gratton, G. (2001, March). *Encoding-related lateralizations during word recognition*. Poster presented at the 8th Annual Meeting of the Cognitive Neuroscience Society, New York, NY.

Grants

PI, *The Associative Basis of Unconscious Serial Learning*. Research Board, University of Missouri. 06/01/93 to 08/31/94, \$25,000.

PI (Todd Schachtman, Co-PI), *Contingency and Conditioning*. Research Board, University of Missouri. 06/01/95 to 05/31/96, \$26,648.

Co-PI (Monica Fabiani, PI), *Brain Correlates of False Memory: Electrophysiological and Optical Imaging Studies*, McDonnell-Pew Foundation, 7/1/1997 to 6/30/00, \$104,903 total costs.

Co-PI (Gabriele Gratton, PI), *Functional MRI (fMRI) Facility for the Mapping of Brain Function*. Research Board, University of Missouri. 1/01/98 to 12/31/98. \$105,000 total costs.

PI, *Contrasting Implicit and Explicit Learning*, National Institutes of Mental Health, 9/15/98 to 5/31/03, \$167,865 total costs.

Honors, Awards and Fellowships

First place, Sigma Xi Undergraduate Research Competition, Wright State University, May, 1985

Purdue University Graduate Fellowship, 1985-1986

David Ross Fellowship, Purdue University, 1987-1989

Summer Research Fellowship, Louisiana State University, 1991

Summer Research Fellowship, University of Missouri-Columbia, 1993

Psi Chi Professor of the Year, University of Missouri-Columbia, 1994-1995

Department of Psychology Robert S. Daniel Junior Faculty Outstanding Teaching Award, 1995

Wakonse Teaching Fellow, University of Missouri-Columbia, 1995

Summer Research Fellowship, University of Missouri-Columbia, 1996

Psi Chi Professor of the Year, University of Missouri-Columbia, 1997-1998

American Psychological Association's Advanced Training Institute in Functional Magnetic Resonance Imaging, Massachusetts General Hospital Visiting Fellowship in fMRI, June 2000.

Recent Courses

Introductory Psychology

Research Methods in Psychology

Cognitive Psychology

Cognition Laboratory

Editorial Service

Editorial Board, *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 1995-1999

Editorial Board, *Psychological Research*, 1998-2001

Editorial Board, *Memory & Cognition*, 1999-2002

Ad hoc reviewer (recent): *Behavior Research Methods, Instruments & Computers*; *Cognitive Psychology*; *Journal of Experimental Child Psychology*; *Journal of Experimental Psychology: General*; *Journal of Experimental Psychology: Human Perception and Performance*; *Journal of Experimental Psychology: Learning, Memory, and Cognition*; *Journal of Memory & Language*; *Perception & Psychophysics*; *Psychological Review*; *Psychological Science*; *Psychonomic Bulletin & Review*; *Quarterly Journal of Experimental Psychology*

University and Departmental Service

Cognition and Neuroscience Training Committee, Department of Psychology, University of Missouri-Columbia, 1992-present

Human Subjects Committee, Department of Psychology, University of Missouri-Columbia, 1992-1994

Computer Committee, Department of Psychology, University of Missouri-Columbia, 1993-present
Organizer, Show Me Mental State Conference on Cognition, 1994-1997, 1999, 2001

Chair, Human Subjects Committee, Department of Psychology, University of Missouri-Columbia, 1994-1997

Undergraduate Advising Committee, Department of Psychology, University of Missouri-Columbia, 1994-1999

Advisory Committee, Department of Psychology, 1997-1999

Campus Institutional Review Board, University of Missouri-Columbia, 1997-1999

Quantitative Search Committee, Department of Psychology, 1998-1999

Cognition and Neuroscience Search Committee, Dept. of Psychological Sciences, 2001-2002

Associate Chair, Dept. of Psychological Sciences, 1999-2005

Developmental Psychopathology Search Committee, Dept. of Psychological Sciences, 2005.

Professional Affiliations

American Psychological Society

Midwestern Psychological Association

Psychonomic Society

Sigma Xi