

VITA of RALPH R. MILLER - March 2017

Address: Department of Psychology
State University of New York at Binghamton
Binghamton, NY 13902-6000 USA

Telephone: Office (607) 777-2291
Secretary (607) 777-2334

FAX: (607) 777-4890

E-mail: rmill@binghamton.edu

Education: Massachusetts Institute of Technology, Cambridge, MA, B.S. in Physics, 1962
Rutgers University, New Brunswick, NJ, M.S. in Physics (high energy), 1964
Rutgers University, New Brunswick, NJ, M.S. in Psychology (social), 1966
Rutgers University, New Brunswick, NJ, Ph.D. in Psychology (physiological), 1969

Experience: Undergraduate Laboratory Assistant in Physics, MIT, 1959-62,
Research Fellow and Teaching Assistant in Physics, Rutgers University, 1962-64
Research Fellow and Teaching Assistant in Psychology, Rutgers University, 1964-69
Assistant Professor of Psychology, Brooklyn College of CUNY, 1969-73
Associate Professor of Psychology, Brooklyn College of CUNY, 1973-78
Visiting Fellow in Experimental Psychology, University of Cambridge (UK), 1975-76
Professor of Psychology, Brooklyn College of CUNY, 1978-79
Associate Professor of Psychology, SUNY-Binghamton, 1979-81
Professor of Psychology, SUNY-Binghamton, 1981-2003
Chairperson, Department of Psychology, SUNY-Binghamton, 1993-96
Distinguished Professor of Psychology, SUNY-Binghamton, 2003-present

Current Research Interest: Information Processing in Animals.

My specific area of specialization is elementary information processing in animals (humans and rats), including learning, memory, and decision making. Although our research team in recent years has worked within the framework of Pavlovian associative conditioning, integration with both the physiological and human cognitive literature is sought at the theoretical level. Recent work has been concerned with distinguishing and characterizing perception, acquisition, storage, retention, retrieval, and response generation in humans and rodents, using impediments to performance such as associative interference, stimulus competition, and contingency manipulations to understand the processing of acquired information. We have found that training and testing contexts (i.e., background stimuli) play a central role in modulating acquired behavior. Present research continues to examine these issues, particularly to determine how retrieval processes can explain phenomena that are traditionally attributed to differences in acquisition. Experiments are being conducted to see whether the retrieval rule that we have formulated based on a modified form of contingency theory (the Comparator Hypothesis) can explain sufficient behavioral variation to allow simplification of contemporary theories of acquired responding. For example, with this retrieval rule, behavior indicative of conditioned inhibition can be explained in terms of differences in US likelihood between cues that were trained together, rather than associations to the absence of a US or associations with negative value. Additionally, we are examining associative interference between independently

acquired associations that share some but not all elements. Much of our current work on associative interference has an applied focus. Specifically, we use fear conditioning to model anxiety disorders in humans, experimental extinction to model exposure therapy, and recovery from extinction (e.g., spontaneous recovery and renewal) to model relapse from exposure therapy, all with the goal of advising clinicians how they might minimize relapse from exposure therapy.

A second avenue of research is concerned with the role of temporal relationships between events in elementary learning. Our data indicate that temporal proximity not only fosters the formation of associations, but is invariably part of what gets encoded within the association. Moreover, this temporal information is a critical determinant of how the association will later be expressed in behavior. Our work in this area is summarized in what we call the Temporal Coding Hypothesis.

Further studies are examining the various properties of occasion setters (i.e., conditional discriminative stimuli). For instance, we are attempting to determine if occasion setters obey rules analogous to those known to govern Pavlovian excitatory conditioned stimuli. Additional research focuses on similarities and differences in Pavlovian conditioning, contingency judgment, and causal attribution by animals and humans.

Courses taught: Introductory Psychology
 Experimental Psychology
 Theories of Learning
 Physiological Psychology
 Comparative Psychology
 Evolution and Behavior
 Environmental Psychology
 Seminar on Evolution and Human Decision Theory
 Seminar on Evolution and Group Norms
 Seminar on Evolutionary Psychology
 Seminar on Memory Processes
 Seminar on Ecological Psychobiology
 Seminar on the Psychobiology of Feeding Behavior
 Seminar on Science, Self, and Society
 Statistics
 Graduate Introduction to Research
 Graduate Experimental Psychology
 Graduate Comparative Psychology
 Graduate Conditioning and Learning
 Graduate Advanced Conditioning and Learning
 Graduate Physiological Psychology
 Doctoral Seminar on the Physiological Basis of Memory
 Doctoral Seminar on Biofeedback and Autonomic Conditioning
 Doctoral Seminar on Current Issues in the Psychology of Learning
 Doctoral Seminar on Evolution and Learning
 Doctoral Seminar on Theories of Discrimination Learning
 Doctoral Seminar on Comparative Cognition
 Doctoral Seminar on Causal Inference
 Doctoral Seminar on Behavior Theory and Therapy
 Doctoral Seminar on Cognitive Psychology

Administrative and service experience:

CUNY-Brooklyn.

Chairman, Metropolitan New York Seminars on the Physiology of Memory, 1970-73
Deputy Departmental Chairman for Graduate Studies, 1970-72
Representative to University Doctoral Executive Committee, 1971-72
Doctoral Admissions Committee, 1971-72
Doctoral Curriculum Committee, 1971-72
Director of Animal Research Laboratories in Psychology (State certificate), 1971-79
CUNY Faculty Research Award Committee, 1973-74
CUNY Animal Research and Maintenance Committee, 1973-79
School-wide Promotions Committee, 1973-74
School-wide Graduate Review Committee, 1973-75
Head, CUNY Doctoral Program in Experimental Psychology, 1974-76
Departmental Colloquium Committee Chairman, 1976-79
Brooklyn College Master Planning and Educational Policy Committee, 1977-79

SUNY-Binghamton.

Departmental Human Cognitive Search Committee, 1979-present
(Chair, 1981-82, 1985-87)
Departmental Senior Clinical Search Committee, 1981-82
Departmental Colloquium Committee, 1979-present (Chairman, 1979-83, 1989-present)
Co-organizer of Binghamton Symposium on Information Processing in Animals: Memory Mechanisms (1980)
Co-organizer of Binghamton Symposium on Information Processing in Animals: Conditioned Inhibition (1983)
Departmental Personnel Committees, 1979-present
Departmental Undergraduate Committee, 1980-81
Off Campus College Academic Council, 1981-82, 1983-85
Area Coordinator, Experimental Psychology, 1981-83
Departmental Graduate Committee, 1981-86, 2005-present
Director of Graduate Studies in Psychology, 1983-86
Departmental Senior Cognitive Search Committee, Chairman, 1985-87
Committee for the University Environment, 1984-91 (Chairman, 1986-91)
University Advisor for NSF Graduate Fellowship Applicants, 1987-1990
Departmental Committee on Safety and Ventilation, 1987-91
University Search Committee for Director of Physical Education, 1988-89
Departmental Clinical Search Committee, 1989-90
Anderson Center for the Performing Arts - Friends Steering Committee, 1988-90
Faculty Senate, 1989-91
Facilities Committee for Middle States Association Review, Co-Chairman, 1989-91
Sigma Xi Membership Committee (1990-91)
Board of Directors for Cider Mill Playhouse (now autonomous from SUNY), 1991-2008,
Chair of Development Committee, 1991-98, and Vice-President 1992-98, 2001-2004
Dean's Committee on Photographic Services, 1991-92
Provost's Committee of Infrastructure for Research, 1991-92
University-Wide Personnel Committee, 1991-93
Provost's Committee on General Education Requirement, 1992-93
Chairperson, Department of Psychology, 1993-96
Departmental Merit and Teaching Load Committee (chair), 1998-99
Dean's Research Semester Selection Committee (chair) 1998-99
Departmental Undergraduate Committee, 1998-2005
Institutional Animal Care and Use Committee, 1998-2004; chair, 2002-2004

Committee for the University Environment, 1999-2003, 2004-2014
Evolutionary Studies Program Steering Committee, 2002-2007
Dean's Research Semester Selection Committee, 2004-2005
University Committee for Emergency Power, 2004-2005
Director of Graduate Studies in Psychology, 2005-2015
Departmental Executive Committee, 2005-present
University Premedical Scholarship Committee, 2009-2010
Personal Review Committee for Distinguish Professorships, 2010-2012
Coordinator of Doctoral Cognitive & Behavioral Sciences Program, 2014-2015
Departmental Colloquium Committee, 2017
Departmental Human Subjects Pool, coordinator, 2017.

Editor:

Animal Learning & Behavior (incoming 1996; 1997-2002)
Journal Experimental Psychology: Animal Behavior Processes (incoming 2013; 2014-present)

Consulting editor:

American Journal of Psychology (1979-88)
Journal of Experimental Psychology: Animal Behavior Processes (1986-99; 2009-2013)
Journal of the Experimental Analysis of Behavior (1994-97), (2009-2013)
International Journal of Psychology and Psychological Therapy (2001-2009)
Mexican Journal of Behavioral Analysis (2004-2009)
Learning & Behavior (2015-present)
Psychological Review (2015-present)

Referee:

American Psychologist
American Journal of Psychology
Animal Cognition
Animal Learning & Behavior
Appetite
Attention, Perception, & Psychophysics
Behavior Modification
Behavioral and Brain Sciences
Behavioral and Neural Biology
Behavioral Biology
Behavioral Neuroscience
Behavioural Processes
Biology Letters
Biological Research
Brain Research
British Journal of Psychology
Canadian Journal of Experimental Psychology
Current Biology
Current Directions in Psychological Science
Developmental Psychobiology
Experimental Psychology
Infant Behavior and Development
International Journal of Psychology and Psychological Therapy
Journal of Behavioral Decision Making
Journal of Behavior Therapy and Experimental Psychiatry

Journal of Comparative and Physiological Psychology
Journal of Comparative Psychology
Journal of the Experimental Analysis of Behavior
Journal of Experimental Psychology: Animal Behavior Processes
Journal of Experimental Psychology: General
Journal of Experimental Psychology: Learning, Memory, and Cognition
Journal of Neuroscience
Journal of the Experimental Analysis of Behavior
Journal of Psychophysiology
Learning & Behavior
Learning and Memory
Learning and Motivation
Memory & Cognition
Mexican Journal of Behavioral Analysis
Nature
Nature Neuroscience
Nature Reviews Neuroscience
Naturwissenschaften
Perspectives on Psychological Science
Pharmacology, Biochemistry and Behavior
Physiological Psychology
Physiology and Behavior
Proceedings of the National Academy of Sciences
Psychobiology
Psychological Bulletin
Psychological Reports
Psychological Review
Psychological Science
Psychonomic Bulletin & Review
Quarterly Journal of Experimental Psychology, Sec. A
Quarterly Journal of Experimental Psychology, Sec. B
Science
Trends in Neurosciences

Other off-campus professional service:

Reviewer of grant proposals for NSF, NIH, Center for Advanced Studies in the Social Sciences, US-Israel Bi-national Science Foundation, Canadian National Science and Engineering Research Council, Australian Research Council, Belgian Research Council, CUNY Intermural Research Grant Program, SUNY-Cortland Intermural Research Grant Program, University of Montana Grant Program, Louisiana State University Grant Program, New Zealand Royal Society, United Kingdom Biological and Medical Research Council. Flanders Research Foundation
Member and sometimes chair of various NIH Review Panels.
Reviewer of manuscripts for Harcourt Brace Jovanovich, Harpur & Row, John Wiley & Sons, Little-Brown, Macmillan, McGraw-Hill, Methuen, Prentice-Hall, Random House, Wm. Brown, Cambridge University Press, Brown-Benchmark, Macmillan, and Oxford University Press.
Eastern Psychological Association Reviewer for Paper Selection, 1976-2011
Eastern Psychological Association Program Committee, 1984-1987; chairman, 1985-1986

American Psychological Association, Division 3 Membership and Fellowship Committee, 1983-86; chairman, 1984-1985
Governing Board, Winter Conference on Animal Learning, 1987-1993
American Psychological Association, Division 3 Program Committee, 1987-1990; chairman for 1989 convention.
Fulbright/Spanish-North American Committee for Educational Cooperation Lecturer, 1988
Fulbright/Spanish-North American Committee for Educational Cooperation Lecturer, 1991
Eastern Psychological Association, Board of Directors, 1992-1995
Eastern Psychological Association, Program Committee, 1996-2000
Eastern Psychological Association, President-Elect 1998-99, President 1999-2000, Past-President 2000-2001
NIH BBBP-1 Review panel, 1999-2005 (sometimes chair)
NIH advisory committee of data achieving in animal behavior, 2001
American Psychological Association, Division 6, Representative to Executive Committee, 2001-2004
Eastern Psychological Association, Board of Directors, 2001-2003
Eastern Psychological Association, Committee to Reorganize Management, chair, 2002-2004
Spanish Society for Comparative Psychology, Scientific Committee, 2003
American Psychological Association, Division 3, Executive Committee, 2004-2007
Pavlovian Society, Executive Committee, 2004-2011
Pavlovian Society, President, 2005-2006
Eastern Psychological Association, Board of Directors, 2005-2008
American Psychological Association, Division 3, Executive Committee, 2008-2011
American Psychological Association, Division 3, President, 2009-2010
Psychonomic Society, Publications Board, 2010-2015
Eastern Psychological Association, Board of Directors, 2014-2017
Eastern Psychological Association Election Committee, 2017

Memberships in professional societies:

American Association for the Advancement of Science
American Psychological Association (Fellow of Div. 3 & 6)
Association for Psychological Science (Fellow)
Association for Behavior Analysis
Comparative Cognition Society
Eastern Psychological Association (Fellow)
International Society for Comparative Psychology
Midwestern Psychological Association
Pavlovian Society
Psychonomic Society (Fellow)
Sigma Xi
Society of Experimental Psychologists (Fellow)
Society for the Quantitative Analysis of Behavior
Society for Computational Modeling of Associative Learning

Honors:

Career Development Award, National Institutes of Health, 1976-79
Fellow of Divisions 3 & 6, American Psychological Association
Fellow, American Psychological Society

University Award for Excellence in Research, 1996-97
President-elect, President, Past-president, Eastern Psychological Association, 1998-2001
Erskine Fellow (lecture series in New Zealand), 2000
Gantt Medal from Pavlovian Society for Outstanding Contributions, 2001
Fellow, Eastern Psychological Association, 2004-present
SUNY Distinguished Professor, 2003-present
President-elect, President, Past-president, Pavlovian Society, 2004-2007
Binghamton University Award for Excellence in Graduate Student Mentoring, 2004-05
Geoffrey Marshall Mentoring Award, Northeast Association of Graduate Schools, 2005
Fellow, Society of Experimental Psychologists, 2008-present
President-elect, President, Past-president, American Psychological Association, Division 3,
2008-2011
QUAD-L Award for outstanding contributions to understanding of learning,
University of New Mexico, 2014-15.
Eastern Psychological Association symposium honoring 50 years of my contributions
to the the understanding of learning and EPA, 2015.
Fulbright Fellow: France, 2015-16.
Fulbright Lecturer: Spain, 2016.

Grants Awarded:

Sigma Xi Predoctoral Research Award, 1965-66 (No play: A means of conflict resolution,
\$500)
NIMH Research Grant MH17906, 1969-70 (Stages of memory and ECS-induced amnesia,
\$5,562)
CUNY FRAP-1155, 1970-71 (Studies of the phenomenon of memory, \$2,000)
NIMH Research Grant MH-19497, 1971-75 (Memory processes and retention, \$62,686)
CUNY FRAP-1385, 1971-72 (Memory and retention in rats, \$9,177)
NIMH Research Grant MH-21976, 1972-73 (Psychobiology of long-term memory, \$2,998)
CUNY FRAP-10246, 1973-74 (Interanimal chemical transfer of acquired information, \$3,160)
CUNY FRAP-10694, 1974-75 (The functional basis of classical conditioning, \$7,950)
CUNY FRAP-11183, 1975-76 (Memory deficits unique to young animals, \$10,783)
NIMH National Research Service Award MH-05152, 1975-76 (Memory processes in man and
animal, \$16,967)
NSF Research Grant BMS 75-03383, 1975-78 (The function and nature of memory, \$62,000,
accepted in preference to funds offered by NIMH)
NIMH Research Scientist Development Award MH-00061, 1976-81 (Function and nature of
memory, \$158,065)
CUNY FRAP-11810, 1977-78 (Sources of infantile amnesia, \$13,868)
CUNY FRAP-12229, 1978-79 (Information processing in rats following initial acquisition and
trace reactivation, \$10,993)
NIMH Research Grant MH-33881, 1979-81 (Memory and retroactive stimulus interference in
rats, \$22,017)
NIH BRSG SO7RR07149-06, 1980-81 (Contextual control of acquired behavior, \$2,655)
SUNY-UAP-7479A, 1981-82 (Effects of postacquisition "surprising" events, \$3,450)
NIMH Research Grant MH-33881, 1981-83 (Extra-acquisition associative determinants of
performance, \$53,136)
NIMH Research Grant MH-33881, 1983-86 (Extra-acquisition associative determinants of
performance, \$137,411)
NIH BRSG SO7RR07149-10, 1984-85 (Computer interfaces for environmental control and
data collection in rodent learning and memory laboratory, \$3,400)
NSF Research Grant BNS 86-00755, 1986-88 (Extra-acquisition associative determinants of

performance, \$100,000 plus \$12,000 in supplements; accepted in preference to funds from NIMH)

NIMH Research Grant MH-33881, 1988-91 (Extra-acquisition associative determinants of performance; accepted in preference to funds from NSF, \$250,555)

NIMH Research Grant MH-33881, 1991-96 (Extra-acquisition associative determinants of performance, \$670,000)

Fulbright/Spanish-North American Committee for Educational Cooperation, 1991-92 (\$14,500)

NIMH Research Grant MH-50826, 1992-93 (Small instrumentation grant program; with L. Spear & N.E. Spear, \$23,309)

NIH BRSO SO7RR07149-18, 1992-93 (Temporal coding in Pavlovian associations, \$3,219)

Binghamton University grant in support of research, 1992-93 (Occasion setting of elementary associations, \$1,000)

NYS/UUP Continuing Faculty Development Award, 1992-93 (Conference travel expenses, \$750)

Binghamton University grant in support of research, 1993-94 (Animal analogs of causal judgment, \$1000)

NYS/UUP Continuing Faculty Development Award, 1993-94 (Conference travel expenses, \$750)

NYS/UUP Continuing Faculty Development Award, 1994-95 (Conference travel expenses, \$581)

Binghamton University grant in support of research, 1995-96 (Cognition as a group level process, \$1,000)

NIMH Research Grant MH-33881, 1996-00 (Extra-acquisition associative determinants of performance, \$654,058 including supplement)

NIMH National Research Service Award (for Hernan Savastano) MH-11704, 1997-00 (The role of context and timing on associative learning, \$87,168)

NYS/UUP Continuing Faculty Development Award, 1998-99 (Conference travel expenses, \$400)

Erskine Fellowship (New Zealand government), 2000 (Visiting lectureship, ~\$10,000)

NIMH Research Grant MH-33881, 2000-05 (Extra-acquisition associative determinants of performance, \$1,303,891)

NIMH National Research Service Award (for Steven Stout) MH-64420, 2002-05 (Boundary conditions of time-scale invariance, \$128,724)

NIMH Research Grant MH-33881, 2005-12 (Extra-acquisition associative determinants of performance, \$1,439,290)

NYS/UUP Continuing Faculty Development Award, 2006-07 (Conference travel expenses, \$1000)

NYS/UUP Continuing Faculty Development Award, 2008-09 (Conference travel expenses, \$500)

NYS/UUP Continuing Faculty Development Award, 2010-11 (Conference travel expenses, \$670)

NYS/UUP Continuing Faculty Development Award, 2010-11 (Conference travel expenses, \$750)

Fulbright/France Research Fellowship, 2015-2016 (Stipend complementing sabbatical salary, \$47,676).

Fulbright/Spanish-American Commission/UNED, 2016 (Lectureship, \$1,300).

PhDs supervised in chronological order:

Alan Springer, Professor, New York Medical College
Nancy Marlin, Provost and Professor, San Diego State University
Alvin Berk, Vice-President for Facilities, SUNY Downstate Medical Center
Wesley Kaspro, Senior Researcher & Associate Professor, New Haven VA & Yale Medical School
Todd Schachtman, Professor, University of Missouri at Columbia
Louis Matzel, Professor and ex-Chair, Rutgers University at New Brunswick
Steve Hallam, Professor and Chair, Keuka College
Nicholas Grahame, Associate Professor, Indiana University-Purdue University in Indianapolis
Robert Barnet, Associate Professor, College of William and Mary
Robert Cole, Director of Research, Allied Services
Lisa Gunther, Professor and Chair, Greensboro College
James Denniston, Professor and Chair, Appalachian State University
Aaron Blaisdell, Professor, UCLA
Martha Escobar, Professor, Oakland University
Daniel Wheeler, Research Associate, Marquette University School of Medicine
Jeffrey Amundson, Assistant Professor, College of St. Rose
Gonzalo Pablo Urcelay, Lecturer, University of Leicester, UK
James Witnauer, Associate Professor, SUNY-Brockport
Bridget McConnell, Lecturer, James Cook University, Singapore
Mario Laborda, Associate Professor, University of Chile
Gonzalo Miguez, Assistant Professor, University of Chile
Cody Polack, Postdoctoral Fellow, State University of New York at Binghamton

Postdoctoral Fellows sponsored in chronological order:

Ronald Sigmundi, Professor, St. Lawrence University
Jose Navarro-Guzman, Professor, University of Cadiz, Spain
Philippe Oberling, Associate Professor, INSERM, Strasbourg, France
Hernan Savastano, Project Manager, MicroSoft Corporation
Francisco Arcediano, Assistant Professor, Oakland University
Steven Stout, Professor, Jacksonville State University
Tom Beckers, Professor, KULeuven, Belgium
Oskar Pineno, Associate Professor, Hofstra University
Kouji Urushihara, Professor, Health Science University of Hokkaido, Japan
Miguel Vidallo, Associate Professor, Kings College School of Medicine - London, United Kingdom
David Guez, Lecturer, James Cook University, Australia
Mikael Molet, Assistant Professor, University of Lille, France
Jeremie Jozefowicz, Associate Professor, University of Lille, France

Publications: (* = student)

Brugger, H.R., Miller, R.R., & Plano, R.J. (1966). On-line checking of bubble chamber measurements. *International high energy physics* (pp. 393-394). Moscow, USSR: Atomizdat.

Lewis, D.J., Miller, R.R., Misanin, J.R., & Richter, N.G. (1967). ECS-induced retrograde amnesia for one-trial active avoidance. *Psychonomic Science*, 8, 485-486.

Miller, R.R. (1967). No play: A means of conflict resolution. *Journal of Personality and Social Psychology*, 6, 150-156.

Lewis, D.J., Miller, R.R., & Misanin, J.R. (1968). Control of retrograde amnesia. *Journal of Comparative and Physiological Psychology*, 66, 48-52.

Lewis, D.J., Misanin, J.R., & Miller, R.R. (1968). The recovery of memory following amnesic treatment. *Nature*, 220, 704-705. Reprinted in J.L. McGaugh & M.J. Herz (Eds.), (1972). *Memory consolidation: Critical issues* (pp. 107-110). San Francisco: Albion.

Misanin, J.R., Miller, R.R., & Lewis, D.J. (1968). Retrograde amnesia produced by electroconvulsive shock after reactivation of a consolidated memory trace. *Science*, 160, 554-555.

Lewis, D.J., Miller, R.R., & Misanin, J.R. (1969). Selective amnesia produced by ECS. *Journal of Comparative and Physiological Psychology*, 69, 136-140.

Miller, R.R., & Misanin, J.R. (1969). Critique of electroconvulsive shock-induced retrograde amnesia: Analysis of the familiarization effect. *Communications in Behavioral Biology*, 4, 255-256.

Miller, R.R., Misanin, J.R., & Lewis, D.J. (1969). Amnesia as a function of events during the learning-ECS interval. *Journal of Comparative and Physiological Psychology*, 67, 145-148.

Miller, R.R., & Spear, N.E. (1969). Obtaining the extensor phase of ECS-induced convulsions. *Psychonomic Science*, 15, 164-166.

Miller, R.R. (1970). Effects of environmental complexity on amnesia induced by electroconvulsive shock in the rat. *Journal of Comparative and Physiological Psychology*, 71, 267-275.

Miller, R.R., & *Springer, A.D. (1971). Temporal course of amnesia in rats after electroconvulsive shock. *Physiology and Behavior*, 6, 229-233.

Misanin, J.R., Smith, N.F., & Miller, R.R. (1971). Memory of electroconvulsive shock as a function of shock intensity and duration. *Psychonomic Science*, 22, 5-7.

Lewis, D.J., Jackson, F., Miller, R.R., & Misanin, J.R. (1972). The relation between rectal and brain temperatures following hypothermia. *Psychonomic Science*, 27, 29-30.

Miller, R.R., *Malinowski, B., *Puk, G., & *Springer, A.D. (1972). State-dependent models of ECS-induced amnesia. *Journal of Comparative and Physiological Psychology*, 81, 533-540.

Miller, R.R., & *Springer, A.D. (1972a). Effects of strychnine on ECS-induced amnesia in the rat. *Psychonomic Science*, 26, 289-290.

Miller, R.R., & *Springer, A.D. (1972b). Induced recovery of memory in rats following ECS. *Physiology and Behavior*, 8, 645-651.

Miller, R.R., & *Springer, A.D. (1972c). Recovery from amnesia following transcorneal electroconvulsive shock. *Psychonomic Science*, 28, 7-9.

*Springer, A.D., & Miller, R.R. (1972). Retrieval failure induced by electroconvulsive shock: Reversal with dissimilar training and recovery agents. *Science*, 177, 628-630.

Miller, R.R., & *Springer, A.D. (1973). Amnesia, consolidation, and retrieval. *Psychological*

Review, 80, 69-79.

*Springer, A.D., & Miller, R.R. (1973). An inexpensive circuit for recording mean heart rate. *Physiology and Behavior*, 11, 415-417.

Miller, R.R., *Berk, A.M., & *Springer, A.D. (1974). Acquisition and retention of active avoidance in *Xenopus laevis*. *Bulletin of the Psychonomic Society*, 3, 139-141.

Miller, R.R., *Daniel, D., & Berk, A.M. (1974). Successive reversals of a discriminated preference for signaled tailshock. *Animal Learning & Behavior*, 2, 271-274.

Miller, R.R., *Ott, C.A., *Berk, A.M., & *Springer, A.D. (1974). Appetitive memory restoration after electroconvulsive shock in the rat. *Journal of Comparative and Physiological Psychology*, 87, 717-723.

Miller, R.R., & *Springer, A.D. (1974). Implications of recovery from experimental amnesia. *Psychological Review*, 81, 470-473.

Miller, R.R., *Small, D., & *Berk, A.M. (1975). Information content of rat scotophobin. *Behavioral Biology*, 15, 463-472.

Miller, R.R., *Ott, C.A., *Daniel, D., & *Berk, A.M. (1976). ECS-induced amnesia and recovery of memory for classically conditioned fear in the rat. *Physiological Psychology*, 4, 57-60.

*Berk, A.M., *Marlin, N.A., & Miller, R.R. (1977). System for delivering tailshock to freely ambulatory rats. *Physiology and Behavior*, 19, 815-818.

Miller, R.R., & *Berk, A.M. (1977). Retention over metamorphosis in the African claw-toed frog. *Journal of Experimental Psychology: Animal Behavior Processes*, 3, 343-356.

Miller, R.R., & *Kraus, J.N. (1977). Somatic and autonomic indexes of recovery from ECS-induced amnesia in rats. *Journal of Comparative and Physiological Psychology*, 91, 434-442.

Miller, R.R., *Marlin, N.A., & *Berk, A.M. (1977). Reliability and sources of control of preference for signaled shock. *Animal Learning & Behavior*, 5, 303-308.

*Berk, A.M., & Miller, R.R. (1978). LiCl-induced aversions to audiovisual cues as a function of response measure and CS-US interval. *Behavioral Biology*, 24, 184-208.

*Marlin, N.A., *Berk, A.M., & Miller, R.R. (1978). Modification and avoidance of unmodifiable and unavoidable footshock by rats. *Bulletin of the Psychonomic Society*, 11, 203-205.

*Marlin, N.A., *Greco, C., & Miller, R.R. (1978). Effects of post-training reinforcement upon retention of a passive avoidance task. *Bulletin of the Psychonomic Society*, 11, 295-297.

Miller, R.R. (1978). Some physiological aspects of memory. In M. Gruneberg & P. Morris (Eds.), *Aspects of memory* (pp. 104-131). London: Methuen. Invited chapter.

*Berk, A.M., *Vigorito, M., & Miller, R.R. (1979). Retroactive stimulus interference with CER retention in infant and adult rats: Implications for infantile amnesia. *Journal of Experimental Psychology: Animal Behavior Processes*, 5, 284-299.

*Marlin, N.A., *Berk, A.M., & Miller, R.R. (1979). Vulnerability of memory to electroconvulsive shock in relation to onset and offset of reinforcement. *Physiology and Behavior*, 22, 217-221.

*Marlin, N.A., *Sullivan, J.M., *Berk, A.M., & Miller, R.R. (1979). Preference for information about intensity of signaled tailshock. *Learning and Motivation*, 10, 85-97.

Miller, R.R., & *Berk, A.M. (1979). Sources of infantile amnesia. In N.E. Spear & B.A. Campbell (Eds.), *The ontogeny of learning and memory* (pp. 225-243). Hillsdale, NJ: Erlbaum. Invited chapter.

Miller, R.R., & *Marlin, N.A. (1979). Amnesia following electroconvulsive shock. In J.F. Kihlstrom & F.J. Evans (Eds.), *Functional disorders of memory* (pp. 143-178). Hillsdale, NJ: Erlbaum. Invited chapter.

Miller, R.R. (1980a). Infantile forgetting of acquired information. In R.F. Thompson, L.H. Hicks, and V.B. Shvyrkov (Eds.), *Neural mechanisms of goal-directed behavior and learning* (pp. 471-480). New York: Academic Press. (Also USSR edition in Russian). Invited chapter.

Miller, R.R. (1980b). The complete mnemonologist. *American Journal of Psychology*, 93, 163-165. (Book review)

*Balaz, M.A., *Capra, S., *Hartl, P., & Miller, R.R. (1981). Contextual potentiation of acquired behavior after devaluing direct context-US associations. *Learning and Motivation*, 12, 383-397.

*Marlin, N.A., & Miller, R.R. (1981). Associations to contextual stimuli as a determinant of long-term habituation. *Journal of Experimental Psychology: Animal Behavior Processes*, 7, 313-333.

Miller, R.R. (1981). Experience, neural plasticity, and learning. *Behavioural Processes*, 6, 388-391(a book review).

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*Blaisdell, A.P., *Cole, R.P., & Miller, R.R. Recovery from the relative stimulus validity effect. Eastern Psychological Association, Philadelphia, PA, 1996.

*Blaisdell, A.P., & Miller, R.R. Unblocking with qualitative changes in an aversive US. International Comparative Cognition Society, Melbourne, FL, 1996.

*Cole, R.P., *Denniston, J.C., & Miller, R.R. Behavioral recovery from the effect of one-trial overshadowing. Eastern Psychological Association, Philadelphia, PA, 1996.

*Denniston, J.C., *Gunther, L.M., & Miller, R.R. Generalized extinction as a result of extinction in multiple contexts. International Comparative Cognition Society, Melbourne, FL, 1996.

*Denniston, J.C., Miller, R.R., & Matute, H. Biological significance as a determinant of cue competition. Eastern Psychological Association, Philadelphia, PA, 1996.

*Gunther, L.M., *Friedman, B., & Miller, R.R. Generalized excitation as a result of training and extinction in multiple contexts. International Comparative Cognition Society, Melbourne, FL, 1996.

*Gunther, L.M., Oberling, P., & Miller, R.R. Biological significance attenuates overshadowing, the effect of low relative stimulus validity, and the effect of degraded contingency. Eastern Psychological Association, Philadelphia, PA, 1996.

Matute, H., & Miller, R.R. Cue competition in causal judgment. International Congress of Psychology, Montreal, 1996. (Invited symposium presentation.)

Miller, R.R. Acquisition and expression of Pavlovian associations. Spanish Comparative Psychology Society, Malaga, Spain, 1996. (Keynote address.)

Miller, R.R., Oberling, P., & *Gunther, L.M. Latent inhibition and overshadowing of occasion setting. International Comparative Cognition Society, Melbourne, FL, 1996.

Miller, R.R. The temporal coding hypothesis. Midwestern Psychological Association, Chicago, IL, 1996. (Invited address.)

Oberling, P., *Gunther, L.M., & Miller, R.R. Latent inhibition of occasion setting. European Neuroscience Association, Strasbourg, France, 1996.

Angst, M.J., Oberling, P., Miller, R.R., & Sandner, G. Effect of amphetamine in a new model of delusion disorders in rats. Regio Neurex Meeting, Basel, Switzerland, 1997.

*Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. Temporal coding as a determinant of overshadowing. Eastern Psychological Association, Washington, DC, 1997.

*Blaisdell, A.P., *Gunther, L.M., & Miller, R.R. Recovery from blocking through deflation of the blocking stimulus. International Comparative Cognition Society, Melbourne, FL, 1997.

*Bristol, A.S., *Blaisdell, A.P., & Miller, R.R. Overshadowing and latent inhibition counteract each other due to their dependence on different comparator mechanisms. Eastern Psychological Association, Washington, DC, 1997.

*Denniston, J.C., *Kovacs, G.A., Miller, R.R. Temporal coding as a determinant of transfer of inhibition. Eastern Psychological Association, Washington, DC, 1997.

*Denniston, J.C., Matute, H., & Miller, R.R. Blocking in humans using conditioned suppression. International Comparative Cognition Society, Melbourne, FL, 1997.

*Friedman, B., *Vadhan, N.P., & Miller, R.R. Comparator mechanisms and conditioned inhibition. Eastern Psychological Association, Washington, DC, 1997.

*Gunther, L.M., *Cole, R.P., & Miller, R.R. Conditioned excitation and conditioned inhibition acquired through backward conditioning. Eastern Psychological Association, Washington, DC, 1997.

*Gunther, L.M., *Fletcher-Haynes, Z., *Consorte, D., & Miller, R.R. The contingency effect revisited: Signaling the CS alleviates the deficit. International Comparative Cognition Society, Melbourne, FL, 1997.

Miller, R.R. What differences between acquisition and expression tell us about the contents of learning. Eastern Psychological Association, Washington, DC, 1997. (Invited symposium presentation.)

Miller, R.R., Denniston, J.C., & Blaisdell, A.P. Comparator processes influence retrieval, not response generation. Psychonomic Society, Philadelphia, PA, 1997.

Miller, R.R., *Gunther, L.M., *Denniston, J.C., & *Blaisdell, A.P. The comparator hypothesis: Current status. International Comparative Cognition Society, Melbourne, FL, 1997.

Miller, R.R., & Oberling, P. Analogues between occasion setting and Pavlovian conditioning. APA sponsored Conference on Occasion Setting, Durham, NC, 1997. (Invited address.)

Miller, R.R., & Oberling, P. Occasion setting: Basic phenomena. Eastern Psychological Association, Washington, DC, 1997. (Invited address.)

Oberling, P., Angst, M.J., Miller, R.R., & Sander, G. Pavlovian conditioning in rats as a tool to study schizophrenia: On the role of contingency judgment in the formation of abnormal beliefs. Japanese-French Conference on Neurosciences, Cognition, and Related Fields, Strasbourg, France, 1997.

*Blaisdell, A.P., *Wishtart, R., & Miller, R.R. Posttraining shifting of the overshadowing stimulus-US interval alleviates the overshadowing deficit. Eastern Psychological Association, Boston, MA, 1998.

*Burger, D.C., *George, G., & Miller, R.R. Overshadowing of subsequent events. Eastern Psychological Association, Boston, MA, 1998.

*Denniston, J.C., *Mallema, H., & Miller, R.R. Retrospective reevaluation of temporal information in conditioned inhibition. Eastern Psychological Association, Boston, MA, 1998.

*Gunther, L.M., *Bristol, A., Matute, H., & Miller, R.R. Stimuli with acquired biological significance are protected from cue competition. Eastern Psychological Association, Boston, MA, 1998.

Matute, H., *Pineno, O., *Ortega, N., & Miller, R.R. Interference effects from a learning-theoretic view. Spanish Society for Experimental Psychology, Granada, Spain, 1998.

Miller, R.R. The role of models, semantics, and levels of analysis. Rutgers University Symposium on Associationism and Computational Models of Learning and Memory, New Brunswick, NJ, 1998. (Invited symposium presentation.)

Miller, R.R. The role of timing in Pavlovian conditioning: The temporal coding hypothesis Eastern Psychological Association, Boston, MA, 1998. (Invited address.)

Miller, R.R., *Denniston, J.C., & *Blaisdell, A.P. New tests of the comparator hypothesis as applied to retrieval in Pavlovian situations. Midwestern Psychological Association, Chicago, IL, 1998. (Invited address.)

Miller, R.R., *Denniston, J., & *Burger, D. Temporal encoding in Pavlovian inhibition. International Comparative Cognition Society, Melbourne, FL, 1998.

Miller, R.R., *Escobar, M., Savastano, H.I., & Matute, H. Stimulus competition: Antecedent or subsequent events presented on the same or different trials. Psychonomic Society, Dallas, TX, 1998.

Miller, R.R., & Savastano, H.I. The use of temporal information in Pavlovian behavior. Society of the Quantitative Analysis of Behavior, Orlando, FL, 1998. (Invited address.)

Savastano, H.I., *Blaisdell, A., & Miller, R.R. Competition between potential comparator stimuli in the CS-preexposure effect. International Comparative Cognition Society, Melbourne, FL, 1998.

Savastano, H.I., Matute, H., & Miller, R.R. Blocking between outcomes. Eastern Psychological Association, Boston, MA, 1998.

*Blaisdell, A.P., *George, G., & Miller, R.R. Counterconditioning of an overshadowed cue attenuates overshadowing of aversive associations. Eastern Psychological Association, Providence, RI, 1999.

*Blaisdell, A.P., Miller, R.R., & *Escobar, M. Contrasting the comparator hypothesis with acquisition-focused models of retrospective revaluation: Relative validity. Psychonomic Society, Los Angeles, CA, 1999.

*Denniston, J.C., *Salpepi, N., Savastano, H.I., & Miller, R.R. Temporal specificity of inhibition produced through extinction. Eastern Psychological Association, Providence, RI, 1999.

*Escobar, M., *Blaisdell, A.P., & Miller, R.R. Retrospective revaluation and the extended comparator hypothesis. Gregynog Associative Learning Symposium, Gregynog, United Kingdom, 1999.

*Escobar, M., *Hauer, L., Matute, H., & Miller, R.R. Competition between cues trained apart. Eastern Psychological Association, Providence, RI, 1999.

Miller, R.R. Competition between antecedent/subsequent events. European Conference on Cue Competition. Le Lignely, Belgium, 1999. (Invited address.)

Miller, R.R., *Denniston, J.C., & *Blaisdell, A.P. Acquisition- vs. expression-deficit models of cue competition. European Conference on Cue Competition. Le Lignely, Belgium, 1999. (Invited address.)

Miller, R.R., Savastano, H.I., *Escobar, M., & Matute, H. Interactions between antecedent events presented together and apart and between subsequent events presented together and apart. European Conference on Classic and Connectionist Approaches to Causal Inference and Social Judgment. Aix-en-Provence, France, 1999. (Invited address.)

Miller, R.R. Retrospective revaluation and the comparator hypothesis. Southwestern Psychological Association, Albuquerque, NM, 1999. (Invited symposium presentation.)

Miller, R.R., *Denniston, J.C., & Arcediano, F. Ratings of causation versus prediction: A test of Power PC Theory. Eastern Psychological Association, Providence, RI, 1999.

Savastano, H.I., *Blaisdell, A.P., & Miller, R.R. A comparator account of preexposure effects. Eastern Psychological Association, Providence, RI, 1999.

Arcediano, F., *Burger, D.C., *Escobar, M., & Miller, R.R. Backward associations in humans. International Comparative Cognition Society, Melbourne, FL, 2000.

Arcediano, F., *Escobar, M., & Miller, R.R. Temporal coding and backward associations in humans. Eastern Psychological Association, Baltimore, MD, 2000.

Arcediano, F., *Escobar, M., & Miller, R.R. Temporal coding, backward associations and bidirectionality of associations in humans. Spanish Comparative Psychology Society, Granada, Spain, 2000.

*Blaisdell, A.P., *Denniston, J.C., & Miller, R.R. Recovery from the overexpectation effect: Support for performance models of retrospective revaluation. Eastern Psychological Association, Baltimore, MD, 2000.

*Burger, D.C., *Denniston, J.C., & Miller, R.R. Temporal coding in conditioned inhibition: Retardation tests. Eastern Psychological Association, Baltimore, MD, 2000.

*Chang, R.C., *Blaisdell, A.P., Miller, R.R. Temporal relationship as a determinant of blocking in backward conditioning. Eastern Psychological Association, Baltimore, MD, 2000.

*Denniston, J.C., *Burger, D.C., *Escobar, M., & Miller, R.R. Timing of US omission in Pavlovian conditioned inhibition. Psychonomic Society, New Orleans, LA, 2000.

*Denniston, J.C., *Chang, R., & Miller, R.R. Massive extinction prevents the renewal effect. Eastern Psychological Association, Baltimore, MD, 2000.

*Escobar, M., Arcediano, F., & Miller, R.R. Latent inhibition and contextual associations. Eastern Psychological Association, Baltimore, MD, 2000.

*Escobar, M., Arcediano, F., & Miller, R.R. Context exposure modulates the CS-preexposure

effect. International Comparative Cognition Society, Melbourne, FL, 2000.

*Escobar, M., & Miller, R.R. Contrasting retroactive interference between antecedent events and subsequent events in rats. Spanish Comparative Psychology Society, Granada, Spain, 2000.

Miller, R.R. One hundred years of learning theory: What have we learned? Eastern Psychological Association, Baltimore, MD, 2000. (Presidential address).

Miller, R.R. The roles of temporal relationships in Pavlovian conditioning. Pavlovian Society. Annapolis, MD, 2000. (Invited address.)

Savastano, H.I., *Escobar, M., & Miller, R.R. The interaction of preexposure and overshadowing. Eastern Psychological Association, Baltimore, MD, 2000.

Arcediano, F., *Escobar, M., & Miller, R.R. Backward associations and bidirectionality of associations in man and beast. International Comparative Cognition Society. Melbourne, FL, 2001.

Arcediano, F., *Genua, J.S., Miller, R.R. Backward associations and bidirectionality in rats. Eastern Psychological Association, Washington, DC, 2001.

Arcediano, F., & Miller, R.R. Backward associations and bidirectionality of associations in rats. Spanish Comparative Psychology Society, San Sebastian, Spain, 2001.

*Chang, R.C., *Kelschenbach, J., & Miller, R.R. Posttraining context extinction attenuates a backward excitor and a backward inhibitor. Eastern Psychological Association, Washington, DC, 2001.

*Chang, R.C., & Miller, R.R. The role of context in excitatory backward conditioning. International Comparative Cognition Society. Melbourne, FL, 2001.

*Escobar, M., *Choi, D., & Miller, R.R. Retroactive interference and event temporal location. Eastern Psychological Association, Washington, DC, 2001.

*Escobar, M., & Miller, R.R. Latent inhibition in human adults without masking. Spanish Comparative Psychology Society, San Sebastian, Spain, 2001.

Miller, R.R. Destructive readout or multiple representations in memory? Pavlovian Society. New Brunswick, NJ, 2001. (Invited symposium presentation.)

Miller, R.R., & *Escobar, M. Interference between cues and between outcomes in rats. Midwestern Psychological Association, Chicago, IL, 2001. (Invited address.)

Miller, R.R., & *Escobar, M. Interference between cues and between outcomes presented together and presented apart. Society for the Quantitative Analysis of Behavior, New Orleans, 2001. (Invited address.)

Miller, R.R., & *Escobar, M. Latent inhibition in man and beast. International Comparative Cognition Society. Melbourne, FL, 2001.

Stout, S., & Miller, R.R. Massed trials counter overshadowing. International Comparative Cognition Society. Melbourne, FL, 2001.

Stout, S., & Miller, R.R. Positive and negative mediated behavior: Trade-off with number of compound-CS trials. Pavlovian Society. New Brunswick, NJ, 2001.

Stout, S., & Miller, R.R. The effect of trial spacing on cue competition. Psychonomic Society, Orlando, FL, 2001.

*Amundson, J., *Escobar, M., & Miller, R.R. Backward blocking with humans in a nonverbal task. International Comparative Cognition Society. Melbourne, FL, 2002.

*Amundson, J., *Escobar, M., & Miller, R.R. Proactive interference of Pavlovian associations. Eastern Psychological Association. Boston, MA, 2002.

Arcediano, F., *Escobar, M., & Miller, R.R. Disruption of latent inhibition by context segmentation. Eastern Psychological Association. Boston, MA, 2002.

Arcediano, *Escobar, M., & Miller, R.R. Is stimulus competition an acquisition deficit or a performance deficit? International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002.

*Chang, R.C., *Yirenchi, D.A., & Miller, R.R. Context mediation of backward and forward conditioning. Eastern Psychological Association. Boston, MA, 2002.

*Chang, R.C., Stout, S.C., & Miller, R.R. Context mediation of excitatory backward and forward conditioning: Posttraining context extinction. International Comparative Cognition Society. Melbourne, FL, 2002.

*Escobar, M., *Amundson, J., Arcediano, F., & Miller, R.R. Associative interference: An integrative approach. International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002.

*Escobar, M., Arcediano, F., & Miller, R.R. Latent inhibition in human adults: Is masking necessary? Eastern Psychological Association. Boston, MA, 2002.

Miller, R.R. How temporal relationships modulate acquired behavior. International Congress on Behaviorism and the Sciences of Behavior. Auburn, AL, 2002. (Invited address.)

Miller, R.R. Retrospective revaluation: Learning without input? American Psychological Association. Chicago, IL, 2002. (Invited symposium presentation.)

Miller, R.R. Contrasting acquisition-focused and performance-focused models of retrospective revaluation. American Psychological Association. Chicago, IL, 2002. (Invited symposium presentation.)

Miller, R.R., & *Escobar, M. Memory, retrieval, and interference: How some new and not so new findings in the animal laboratory inform stimulus control in clinical situations. Association for Behavioral Analysis. Toronto, Ontario, Canada, 2002. (Invited address.)

Stout, S.C., *Escobar, M., & Miller, R.R. Trial number and temporal relationship as joint determinants of second-order conditioning and conditioned inhibition. Psychonomic Society. Kansas City, MO, 2002.

Stout, S.C., & Miller, R.R. Mediation as a function of trial spacing and number of training trials. International Comparative Cognition Society. Melbourne, FL, 2002.

Stout, S.C., & Miller, R.R. Trial number and temporal contiguity as determinants of cue competition. International Comparative Cognition Society. Melbourne, FL, 2002.

Stout, S.C., & Miller, R.R. Overshadowing is transient: Role of comparator processes. Eastern Psychological Association. Boston, MA, 2002.

*Wheeler, D., *Chang, R., *Yirenchi, D.A., & Miller, R.R. Context mediation of excitatory backward and forward conditioning: US preexposure. International Comparative Cognition Society. Melbourne, FL, 2002.

*Wheeler, D., Savastano, H.I., & Miller, R.R. Biological significance and posttraining changes in conditioned responding. Eastern Psychological Association. Boston, MA, 2002.

*Amundson, J.C., Stout, S.C., & Miller, R.R. Interaction of trial order and retention interval in a human contingency judgment task. Eastern Psychological Association. Baltimore, MD, 2003.

*Amundson, J.C., Urushihara, K., & Miller, R.R. Generality of posttraining deflation and inflation of comparator stimuli on conditioned inhibition. Pavlovian Society. Bloomington, IN, 2003.

Arcediano, F., *Escobar, M., & Miller, R.R. Responding to a blocking stimulus is reduced by compound reinforced training. International Comparative Cognition Society. Melbourne, FL, 2003.

Arcediano, F., Matute, H., & Miller, R.R. Competition between antecedent and between subsequent stimuli. Eastern Psychological Association. Baltimore, MD, 2003.

*Casteel, B., *Escobar, M., & Miller, R.R. The latent inhibition effect: Much more than the effects of preexposure. American Psychological Society. Atlanta, GA, 2003.

*Escobar, M., Arcediano, F., & Miller, R.R. Irrelevant stimulation interpolated between preexposure and conditioning disrupts latent inhibition in a conditioned fear preparation with rat subjects. International Comparative Cognition Society. Melbourne, FL, 2003.

*Escobar, M., & Miller, R.R. Temporal parameters in retroactive interference. Eastern Psychological Association. Baltimore, MD, 2003.

Miller, R.R. Biologically significant cues are relatively immune to cue competition. International Comparative Cognition Society. Melbourne, FL, 2003.

Miller, R.R. Lessons that I learned at Rutgers. Rutgers University Conference on the History of Psychology, New Brunswick, NJ, 2003.

Miller, R.R., & *Escobar, M. Modeling associative interference beyond conventional cue competition. Midwestern Psychological Association. Chicago, IL, 2003. (Invited address.)

Miller, R.R., & Pineño, O. Predictors and causes: What's the difference? Psychonomic Society. Vancouver, BC, Canada, 2003. (Invited symposium presentation.)

Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A

mathematical implementation of the extended comparator hypothesis. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2003. (Keynote address.)

Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A mathematical implementation of the extended comparator hypothesis. Pavlovian Society. Bloomington, IN, 2003. (Invited address.)

Pineño, O., Denniston, J.C., & Miller, R.R. Predictive and causal learning in humans are differentially sensitive to stimulus competition. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.

Pineño, O., & Miller, R. R. Signaling a change in cue-outcome relations in human associative learning. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.

Pineño, O., & Miller, R. R. Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations. Spanish Comparative Psychology Society, Barcelona, Spain, 2003.

*Platt, T., *Escobar, M., & Miller, R.R. Dissociation of the effects of interpolating a retention interval versus instructions between preexposure and conditioning in a human unmasked latent inhibition paradigm. International Comparative Cognition Society. Melbourne, FL, 2003.

Stout, S., & Miller, R.R. Sometimes competing retrieval (SOCR): A model of Pavlovian conditioning. Eastern Psychological Association. Baltimore, MD, 2003.

Urushihara, K., *Wheeler, D. *Francis, J., & Miller, R.R. Influence of intervening retention interval on outcome pre- and post-exposure effects: Primacy and recency effects in outcome exposure paradigm. Eastern Psychological Association. Baltimore, MD, 2003.

*Wheeler, D.S., Stout, S.C., *Scalli, L., & Miller, R.R. A super-latent inhibition effect observed in a conditioned fear preparation. Eastern Psychological Association. Baltimore, MD, 2003.

*Amundson, J.C., *Gutter, D., & Miller, R.R. Inflation of training exciters in Pavlovian conditioned inhibition. Eastern Psychological Association. Washington, DC, 2004.

*Amundson, J.C., & Miller, R.R. Inflation of the comparator stimulus in Pavlovian conditioned inhibition enhances inhibition. Society of the Quantitative Analysis of Behavior, Boston, MA, 2004.

*Amundson, J.C., & Miller, R.R. Spatial contiguity facilitates cue competition and interference. Pavlovian Society. Baltimore, MD, 2004.

Beckers, T., De Houwer, J., & Miller, R.R. Outcome additivity and relative outcome intensity as independent modulators of forward blocking in human and rat causal learning. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)

Beckers, T., Miller, R.R., & De Houwer, J. Reasoning rats: Forward blocking in animal conditioning is sensitive to constraints of causal attribution. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2004.

Beckers, T., Miller, R.R., & De Houwer, J. Is a connectionist model of cue selection feasible? Limiting evidence from humans and animals. International Conference on Social Connectionism.

Brussels, Belgium, 2004.

Beckers, T., Miller, R.R., & De Houwer, J. Reasoning rats: Inferential processes in animal Pavlovian conditioning. International Conference on Thinking. Leuven, Belgium, 2004.

Beckers, T., Miller, R.R., De Houwer, J., Urushihara, K. Reasoning rats: Forward blocking in animal conditioning is sensitive to constraints of causal attribution. Belgian Psychological Society. Brussels, Belgium, 2004.

Matute, H., Miller, R.R., & *Vadillo, M.A. Animal conditioning and human causal learning: similarities and differences. European Neuroscience Society. Lisbon, Portugal, 2004.

Miller, R.R., & Pineno, O. Applying the comparator hypothesis to predictive and causal learning by humans. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)

Miller, R.R., & Stout, S.C. Sometimes competing retrieval (SOCR) of Pavlovian responding: A mathematical implementation of the extended comparator hypothesis. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004. (Invited address.)

Miller, R.R., Stout, S.C., *Amundson, J.C. Trial order and contingency judgement. Psychonomic Society. Minneapolis, MN, 2004.

Pineno, O., De la Casa, L.G., Lubow, R.E., & Miller, R.R. Some determinants of latent inhibition in humans. Conference on Human Contingency Learning. Ardennes, Belgium, 2004. (Invited address.)

Pineno, O., De la Casa, L.G., Lubow, R.E., & Miller, R.R. Some determinants of latent inhibition in humans. International Society for Comparative Psychology/Spanish Comparative Psychology Society. Oviedo, Spain, 2004.

Pineno, O., *Fuss, J., & Miller, R.R. Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association. Eastern Psychological Association. Washington, DC, 2004.

Pineno, O., & Miller, R.R. Spontaneous recovery of responding following forward and backward blocking: The role of within-compound associations. International on Comparative Cognition Society. Melbourne, FL, 2004.

Pineno, O., Stout, S., *Fuss, J., & Miller, R.R. Attenuation of forward and backward blocking achieved by extending posttraining of the blocking association. International Society for Comparative Psychology/Spanish Comparative Psychology Society, Oviedo, Spain, 2004.

*Urcelay, G.P., *Karmin, M.D., & Miller, R.R. Counteractive effects of overshadowing and degraded contingency. Eastern Psychological Association. Washington, DC, 2004.

*Urcelay, G., *Lipatova, O., & Miller, R.R. A comparator view of Pavlovian and differential inhibition. Pavlovian Society. Baltimore, MD, 2004.

Urushihara, K., & Miller, R.R. Overshadowing and the outcome-alone exposure effect counteract each other. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004.

Urushihara, K., Pineno, O., Vadillo, M., & Miller, R.R. Nonconservation of reinforcement value across competing stimuli. Pavlovian Society. Baltimore, MD, 2004.

Urushihara, K., *Wheeler, D., & Miller, R.R. Superconditioning in a conditioned taste aversion situation. Eastern Psychological Association. Washington, DC, 2004.

*Wheeler, D., *Lipatova, O., & Miller, R.R. Primacy effects induced by temporal or physical shifts can be attenuated by rehearsal of recent learning. Eastern Psychological Association. Washington, DC, 2004.

*Wheeler, D., & Miller, R.R. Blocking between subsequent events is not a product of a permanent deficit. Pavlovian Society. Baltimore, MD, 2004.

*Wheeler, D.S., & Miller, R.R. Recovery from blocking between subsequent events. Society for the Quantitative Analysis of Behavior. Boston, MA, 2004.

*Amundson, J.C., Pineno, O., & Miller, R.R. An inhibitory within-compound association attenuates overshadowing. Eastern Psychological Association. Boston, MA, 2005.

*Amundson, J.C., *Wheeler, D.S., & Miller, R.R. Similarity between target and interfering associations facilitates proactive interference in rats. Psychonomic Society. Toronto, Canada, 2005.

Beckers, T., Miller, R.R., De Houwer, J., & Urushihara, K. Reasoning rats: Inference-like processing of information concerning effect additivity and ceilings. International Comparative Cognition Society. Melbourne, FL, 2005.

*Lipatova, O., *Vadillo, M.A., & Miller, R.R. Recency to primacy shift with respect to comparator value. Eastern Psychological Association. Boston, MA, 2005.

Miller, R.R. Stimulus interaction: Competition between stimuli trained together and interference between stimuli trained apart. Conference on Basic and Applied Learning. Santiago, Chile, 2005. (Invited address.)

Miller, R.R., & *Escobar, M. The wide wide world of stimulus interaction. Eastern Psychological Association. Boston, MA, 2005. (Invited address.)

Miller, R.R., & Stout S.C. Sometimes competing retrieval: A mathematical implementation of the extended comparator hypothesis. Conference on Associative Learning Today. Hamilton, Ontario, Canada, 2005. (Invited address.)

Miller, R.R., *Urcelay, G.P., Urushihara, K. Laws of learning appear to differ for elemental cues and compound cues. Psychonomic Society. Toronto, Canada, 2005.

Pineno, O., *Amundson, J.C., & Miller, R.R. An inhibitory within-compound association attenuates overshadowing. Spanish Comparative Psychology Society, Madrid, Spain, 2005.

*Urcelay, G.P., *Cintron, S., & Miller, R.R. Extinction is influenced by the intertrial interval during nonreinforced presentations of the CS. Eastern Psychological Association. Boston, MA, 2005.

*Urcelay, G.P., & Miller, R.R. Nonadditive effects of overshadowing and degraded

contingency. International Comparative Cognition Society. Melbourne, FL, 2005.

*Urcelay, G.P., Urushihara, K., & Miller, R.R. Counteraction between overshadowing and outcome-alone exposure effects. Spanish Comparative Psychology Society. Madrid, Spain, 2005.

Urushihara, K., *Karmin, M., & Miller, R.R. Where has the fear gone? Cue competition is not a result of the division of a limited resource. Eastern Psychological Association. Boston, MA, 2005.

Urushihara, K., *Lipatova, O., & Miller, R.R. Partial reinforcement and CS duration effects counteract overshadowing in select situations. Spanish Comparative Psychology Society. Madrid, Spain, 2005.

Urushihara, K., & Miller, R.R. Investigation of the interaction between overshadowing and US-alone exposure treatment in rats. Japanese Society for Animal Psychology, 2005.

*Vadillo, M.A., *Lipatova, O., *Wheeler, D.S., & Miller, R.R. Subsequently trained blocking stimuli are subject to recency-to-primacy shifts. Spanish Comparative Psychology Society. Madrid, Spain, 2005.

*Wheeler, D.S., *Hessner, R.J., & Miller, R.R. Counteraction between retroactive interference and context-mediated treatments that impair conditioned responding. Eastern Psychological Association. Boston, MA, 2005.

*Amundson, J.C., *Lipatova, O., & Miller, R. R. Similarity in spatial origin of information facilitates cue competition and interference. Eastern Psychological Association. Baltimore, MD, 2006.

*Amundson, J.C., & Miller, R.R. CS-US temporal relations in blocking. Pavlovian Society. Philadelphia, PA, 2006.

Beckers, T., *Wheeler, D.S., Miller, R.R., & De Houwer, J. Does fear conditioning reflect causal reasoning in rats? Symposium on Learning Psychology. Ghent, Belgium, 2006.

Beckers, T., *Wheeler, D.S., Miller, R.R., & De Houwer, J. Does fear conditioning in rats rely on causal reasoning? Australian Learning Group: Third International Meeting. Magnetic Island, Australia, 2006.

Guez, D., & Miller, R.R. Blocking and pseudo-blocking: The reply of *Rattus norvegicus* to *Apis mellifera*. Australian Learning Group: Third International Meeting. Magnetic Island, Australia, 2006.

Guez, D., & Miller, R.R. Blocking and pseudo-blocking: The reply of *Rattus norvegicus* to *Apis mellifera*. Pavlovian Society. Philadelphia, PA, 2006.

*Lipatova, O., *Urcelay, G.P., & Miller, R.R. Extinction in the presence of an excitor. Eastern Psychological Association. Baltimore, MD, 2006.

Miller, R.R., & *Wheeler, D.S. Contrasting reduced overshadowing and forward blocking. Psychonomic Society. Houston, TX, 2006.

*Orinstein, A.J., *Urcelay, G.P., Miller, R.R. Nonadditivity of Pavlovian and explicitly unpaired inhibition treatments. Eastern Psychological Association. Baltimore, MD, 2006.

*Urcelay, G.P., *Amundson, J.C., & Miller, R.R. Similarity of cues and contextual stimuli influences proactive interference. Spanish Comparative Psychology Society. Malaga, Spain, 2006.

*Urcelay, G.P., & Miller, R.R. Spacing extinction trials attenuates renewal and spontaneous recovery. International Comparative Cognition Society. Melbourne, FL, 2006.

*Urcelay, G.P., & Miller, R.R. The role of the context in extended reinforced training. Pavlovian Society. Philadelphia, PA, 2006.

*Urcelay, G.P., *Perelmuter, O., *Hessner, R.J., & Miller, R.R. Pavlovian backward conditioned inhibition in humans: Summation and retardation tests. Eastern Psychological Association. Baltimore, MD, 2006.

Urushihara, K., & Miller, R.R. Timescale invariance in a compound conditioning situation: Partial reinforcement and CS duration effects counteract overshadowing only in select situations. Pavlovian Society. Philadelphia, PA, 2006.

Urushihara, K., & Miller, R.R. Where has the fear gone?: An experimental analysis of the mechanism underlying cue competition. International Society for Comparative Psychology. Christchurch, New Zealand, 2006.

*Wheeler, D.S., Beckers, T., Miller, R.R. The effect of subadditive pre-training on forward blocking in rats: Limits on generalization. Eastern Psychological Association. Baltimore, MD, 2006.

*Wheeler, D.S., Beckers, T., Miller, R.R. The effect of subadditive pre-training on forward blocking in rats depends on generalization. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2006.

*Wheeler, D.S., & Miller, R.R. Contrasting reduced overshadowing and forward blocking. Pavlovian Society. Philadelphia, PA, 2006.

*Witnauer, J.E., & Miller, R.R. Degraded Contingency Revisited: Posttraining Extinction of a Cover Stimulus Attenuates a Target Stimulus' Excitatory Behavioral Control. Pavlovian Society. Philadelphia, PA, 2006.

*McConnell, B.L., *Amundson, J.C., & Miller, R.R. Associative interference in Pavlovian conditioning: A function of similarity. Eastern Psychological Association. Philadelphia, PA, 2007.

*McConnell, B.L., *Wheeler, D.S., *Urcelay, G.P., & Miller, R.R. Protection from latent inhibition provided by a conditioned inhibitor. Pavlovian Society. Austin, TX, 2007.

Miller, R.R., & *Wheeler, D.S. Interactions between competing stimuli: Confirmation of some surprising predictions of the SOCR model of Pavlovian responding (a mathematical implementation of the extended comparator hypothesis). Society for the Quantitative Analysis of Behavior. San Diego, CA, 2007. (Invited address.)

Miller, R. R., & *Wheeler, D.S. When a single cue has multiple competing stimuli: Confirmation of some surprising predictions of the SOCR model of Pavlovian responding. Pavlovian Society. Austin, TX, 2007. (Invited address.)

*Sissons, H.T., Guez, D., & Miller, R.R. Blocking and pseudoblocking: The reply of Rattus

norvegicus to Apis mellefera. Eastern Psychological Association. Philadelphia, PA, 2007.

*Sissons, H.T., Guez, D., & Miller, R.R. Blocking and pseudoblocking: The reply of Rattus norvegicus to Apis mellefera. International Comparative Cognition Society. Melbourne, FL, 2007.

*Urcelay, G.P., & Miller, R.R. A comparator view of the overtraining effect. International Comparative Cognition Society. Melbourne, FL, 2007.

*Urcelay, G.P., & Miller, R.R. Different ways of enhancing extinction and alleviating recovery. Society for Neuroscience. San Diego, CA, 2007.

*Urcelay, G.P., *Orinstein, A., & Miller, R.R. When more is less: Increases in number of reinforced trials result in decreases in conditioned responding. Eastern Psychological Association. Philadelphia, PA, 2007.

*Urcelay, G.P., *Sissons, H.T., & Miller, R.R. Retrospective revaluation and mediated extinction in Pavlovian fear conditioning. Pavlovian Society. Austin, TX 2007.

*Urcelay, G.P., *Witnauer, J.E., & Miller, R.R. Parallels between second-order conditioned excitation and conditioned inhibition. Psychonomic Society. Long Beach, CA, 2007.

Urushihara, K., *Grossman, J., & Miller, R.R. Backward blocking in first-order conditioning. Eastern Psychological Association. Philadelphia, PA, 2007.

Urushihara, K., & Miller, R.R. Backward blocking in first-order conditioning. Psychonomic Society. Long Beach, CA, 2007.

Urushihara, K., *Wheeler, D.S., *Amundson, J.C., & Miller, R.R. An experimental analysis of superconditioning in human contingency judgment. Japanese Psychological Association. Tokyo, Japan, 2007.

*Wheeler, D.S., & Miller, R.R. Contrasting reduced overshadowing and forward blocking. Eastern Psychological Association. Philadelphia, PA, 2007.

*Witnauer, J.E., *Wheeler, D.S., & Miller, R.R. Degraded contingency revisited: Posttraining extinction of a cover stimulus attenuates a target cue's behavioral control. Eastern Psychological Association. Philadelphia, PA, 2007.

Jozefowicz, J., & Miller, R.R. Economic factors influence human temporal judgements in a temporal bisection task. Society for the Quantitative Analysis of Behavior. Chicago, Ill, 2008.

Jozefowicz, J., & Miller, R.R. Inhibition of delay in fear conditioning. Pavlovian Society. New York, NY, 2008.

Jozefowicz, J., Staddon, J.E.R., & Miller, R.R. A behavioral account of metacognition in animals. International Comparative Cognition Society. Melbourne, FL, 2008.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting AAC and ABC renewal: The role of contextual associations. Pavlovian Society. New York, NY, 2008.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Some determinants of second-order

conditioning. Eastern Psychological Association. Boston, MA, 2008.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. The role of CS-context and context-US associations in extinction. International Society for Comparative Psychology. Buenos Aires, Argentina, 2008.

*McConnell, B.L., Urushihara, K., & Miller, R.R. Contrasting predictions of the extended comparator hypothesis and modified SOP. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.

*McConnell, B.L., *Wheeler, D.S., *Urcelay, G.P., & Miller, R.R. Protection from latent inhibition provided by a conditioned inhibitor. Eastern Psychological Association. Boston, MA, 2008.

Miller, R.R. Expression of knowledge. Spanish Comparative Psychology Society. Bilbao, Spain, 2008. (Keynote address.)

Miller, R.R. Time and time again. Psychonomic Society. Chicago, IL, 2008.

Miller, R.R. The error of total error reduction. Society of Experimental Psychologists. Bloomington, IN, 2008. (Invited address.)

Miller, R. R. Why evolution selected for limited retrieval rather than acquisition. Congress on Ethology and Comparative Psychology. Santiago, Chile, 2008. (Invited address.)

Miller, R.R., & Molet, M. Navigating through life using spatiotemporal maps: Data from hairy rats and hairless apes. Invited symposium contribution. Psychonomic Society. Chicago, IL, 2008.

Miller, R.R., *Urcelay, G.P., & *Witnauer, J.E. There is more to acquired behavior than acquisition. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2008. (Keynote address.)

Miller, R.R., & *Witnauer, J.E. The error of total error reduction. Psychonomic Society. Chicago, IL, 2008.

Molet, M., & Miller, R.R. Integration of cognitive maps in humans. International Comparative Cognition Society. Melbourne, FL, 2008.

Molet, M., & Miller, R.R. Integration of cognitive maps in humans. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.

Molet, M., Miller, R.R., & Zentall, T.R. Relative judgments affect assessments of stimulus duration in humans. Eastern Psychological Association. Boston, MA, 2008.

*Sissons, H.T., *Urcelay, G.P., & Miller, R.R. Overshadowing and CS duration: Counteraction and the role of within-compound associations on behavior after posttraining extinction. Eastern Psychological Association. Boston, MA, 2008.

Unrod, M., Drobles, D., Stasiewicz, P., Ditre, J., Armstrong, G., Bouton, M., Miller, R., Niaura, R., & Brandon, T. Key Decision-Points in Conducting Cue-Exposure Therapy for Smoking Cessation. Society for Research on Nicotine and Tobacco. Portland, OR, 2008.

*Urcelay, G.P., *Orinstein, A., & Miller, R.R. Double dissociation of two functional roles of the context in Pavlovian fearing condition. Eastern Psychological Association. Boston, MA, 2008.

Urushihara, K., & Miller, R.R. Backward blocking in first-order conditioning with rats. International Society for Comparative Psychology. Buenos Aires, Argentina, 2008.

*Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Some determinants of second-order conditioning. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2008.

*Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Some determinants of second-order conditioning. International Society for Comparative Psychology. Buenos Aires, Argentina, 2008.

*Witnauer, J.E., *Sissons, H.T., & Miller, R.R. Spontaneous recovery of excitation and inhibition. International Comparative Cognition Society. Chicago, IL, 2008.

*Witnauer, J.E., *Urcelay, G.P., & Miller, R.R. Reduced blocking as a result of increasing the number of blocking cues. Eastern Psychological Association. Boston, MA, 2008.

*Witnauer, J.E., *Urcelay, G.P., & Miller, R.R. Two blocking stimuli are less effective than one blocking stimulus. American Psychological Association. Boston, MA, 2008.

Escobar, M., Miller, R.R., & Suits, W.T. Interferencia retroactiva: Una perspectiva comparativa (Retroactive interference: A comparative perspective). 2nd National Psychology Conference COLPSIC and 1st International Psychology Conference COLPSIC-ASCOFAPSI. Bogota, Colombia, 2009. (Invited address).

Jozefowicz, J., *Witnauer, J.E., * Miller, R.R. Paradoxical timing in fear conditioning. Pavlovian Society. Burlington, VT, 2009.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting AAC and ABC renewal: The role of context associations. Eastern Psychological Association. Pittsburgh, PA, 2009.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contrasting overexpectation and extinction. International Comparative Cognition Society. Melbourne, FL, 2009.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Contextual associations in extinction. International Comparative Cognition Society. Melbourne, FL, 2009.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Modeling anxiety disorders: S-R associations, their extinction and relapse. International Comparative Cognition Society. Boston, MA, 2009.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Modeling conditioned fears without recall of causes: Stimulus-response associations, their extinction, and recovery. Pavlovian Society. Burlington, VT, 2009.

*McConnell, B.L., & Miller, R.R. Protection from and reemergence of extinction. Pavlovian Society. Burlington, VT, 2009.

*McConnell, B.L., Urushihara, K., *Tanaka, Y., & Miller, R.R. A novel means of differentiating between accounts of retrospective revaluation. International Comparative Cognition Society. Boston, MA, 2009.

*McConnell, B.L., Urushihara, K., & Miller, R.R. Contrasting models of retrospective reevaluation. Eastern Psychological Association. Pittsburgh, PA, 2009.

*Miguez, G., Molet, M., & Miller, R.R. Physical and temporal contexts can disambiguate temporal information. Pavlovian Society. Burlington, VT, 2009.

*Miguez, G., *Sissons, H., & Miller, R.R. Second-learned associations fade faster than first-learned associations. Eastern Psychological Association. Pittsburgh, PA, 2009.

Miller, R.R. Evolution as the cornerstone of contemporary psychological science. American Psychological Association. Toronto, Ontario, Canada. (Invited address.)

Miller, R.R., & *Laborda, M. Minimizing recovery from extinction. Pavlovian Society. Burlington, VT, 2009. (Invited address.)

Miller, R.R., & *Witnauer, J.E. Cue interactions: The role of within-compound associations. Psychonomic Society, Boston, MA 2009.

Miller, R.R., & *Witnauer, J.E. The role of within-compound associations in cue interactions: Models and data. Duke Symposium on Computational Models of Classical Conditioning. Durham, NC, 2009. (Invited address.)

*Polack, C.W., Jozefowicz, J., & Miller, R.R. Economic factors determine temporal judgements in a bisection task. Eastern Psychological Association. Pittsburgh, PA, 2009.

*Polack, C.W., Jozefowicz, J., & Miller, R.R. Economic factors determine human temporal judgements in a bisection task. International Comparative Cognition Society. Melbourne, FL, 2009.

*Polack, C.W., *Sissons, H.T., & Miller, R.R. Determinants of the overexpectation effect. International Comparative Cognition Society. Melbourne, FL, 2009.

*Urcelay, G.P., & Miller, R.R. Potentiation and overshadowing in Pavlovian fear conditioning. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2009.

*Urcelay, G.P., & Miller, R.R. Two functional roles of the context in Pavlovian fear conditioning: A double dissociation. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2009.

*Witnauer, J.E., *Curtis, E.A., & Miller, R.R. Contrasting overexpectation and extinction. Eastern Psychological Association. Pittsburgh, PA, 2009.

*Witnauer, J.E., & Miller, R.R. Total error reduction: Data and simulations. International Comparative Cognition Society. Boston, MA, 2009.

*Laborda, M.A., *Miguez, G., *Witnauer, J.E., & Miller, R.R. Partial reinforcement acquisition deficit: The role of contextual associations. International Comparative Cognition Society, St. Louis, MO, 2010.

*Laborda, M.A., & Miller, R.R. Additive effect of extinction in multiple contexts and massive extinction in attenuating recovery. International Comparative Cognition Society. Melbourne, FL, 2010.

*Laborda, M.A., & Miller, R.R. Massive extinction in multiple contexts reduces fear recovery after a delayed context shift. Eastern Psychological Association. New York, NY, 2010.

*Laborda, M.A., *Polack, C.W., *Miguez, G., & Miller, R.R. Extinction, renewal, and the comparator model. Pavlovian Society. Baltimore, MD, 2010.

*Laborda, M.A., *Witnauer, J.E., & Miller, R.R. Conditioned suppression is an inverted-U function of footshock intensity. Eastern Psychological Association. New York, NY, 2010.

*McConnell, B.L., & Miller, R.R. Attenuated deepened extinction with additional conditioned exciters during extinction. International Comparative Cognition Society, St. Louis, MO, 2010.

*McConnell, B.L., & Miller, R.R. Compound Extinction with Multiple Exciters: A Nonlinear Relationship. Pavlovian Society. Baltimore, MD, 2010.

*McConnell, B.L., *Laborda, M., & Miller, R.R. Preventing relapse through massive extinction in multiple contexts. Association for Behavioral Analysis International. San Antonio, TX, 2010.

*McConnell, B.L., & Miller, R.R. Contrasting conditioned inhibition and negative occasion setting. Eastern Psychological Association. New York, NY, 2010.

*Miguez, G., *Laborda, M.A., & Miller, R.R. Retrospective revaluation of Pavlovian retroactive cue interference. Pavlovian Society. Baltimore, MD, 2010.

*Miguez, G., *Witnauer, J.E., & Miller, R.R. Role of contextual associations in the Pavlovian partial reinforcement response deficit. Eastern Psychological Association. New York, NY, 2010.

Miller, R.R. Functional analysis of learning and its failures: The benefits of imperfect retrieval. American Psychological Association. San Diego, CA, 2010. (Invited address.)

Miller, R.R. Timing in conditioned inhibition: Exactly when does an event not happen? Pavlovian Society. Baltimore, MD, 2010. (Invited address.)

Miller, R.R., & *Miguez, G. "Commonalities among retroactive cue interference and other stimulus interactions in elementary learning situations" Retrospective revaluation, renewal, & spontaneous recovery. Psychonomic Society. St. Louis, MO, 2010.

Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. International Comparative Cognition Society. Melbourne, FL, 2010.

Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. International Conference of the Australia Learning Group. Darwin, Australia, 2010.

Miller, R.R., *Polack, C.W., & *McConnell, B.L. Causal learning in rats. Society of Experimental Psychologists. Philadelphia, PA, 2010.

Pineno, O., & Miller, R.R. Extinction in multiple contexts: Evidence for rule learning. Eastern Psychological Association. New York, NY, 2010.

*Polack, C.W., *Miguez, G., & Miller, R.R. Renewal and spontaneous recovery of Pavlovian retroactive cue interference. Pavlovian Society. Baltimore, MD, 2010.

*Polack, C.W., *Miguez, G., *Witnauer, J.E., & Miller, R.R. Associative history of an extinction context determines benefits/deficits of extinction trial spacing. Eastern Psychological Association. New York, NY, 2010.

*Polack, C.W., *Witnauer, J.E., & Miller, R.R. An inverted-U function relating stimulus control to footshock intensity. International Comparative Cognition Society. Melbourne, FL, 2010.

*Witnauer, J.E., *Laborda, M.A., & Miller, R.R. Fear is an inverted-U function of US intensity. Pavlovian Society. Baltimore, MD, 2010.

*Laborda, M.A., *Miguez, G., & Miller, R.R. Additive effects of spacing extinction trials and spacing extinction session in preventing recovery from extinction. Eastern Psychological Association. Cambridge, MA, 2011.

*Laborda, M.A., *Miguez, G., & Miller, R.R. Spaced extinction training and recovery from extinction. International Comparative Cognition Society. Seattle, WA, 2011.

*Laborda, M.A., & Miller, R.R. Minimizing recovery from extinction: Lessons from the experimental laboratory. Congress on the Investigation of Physiological and Experimental Psychology. Mexico City, Mexico, 2011.

*Laborda, M.A., & Miller, R.R. Towards an enhanced-exposure therapy (EET): Behavioral techniques summate to prevent recovery in an animal model of anxiety. American Psychological Association. Washington, DC, 2011.

*Laborda, M.A., *Polack, C.W., & Miller, R.R. An extinction context can acquire inhibitory properties: Summation and retardation data. Eastern Psychological Association. Cambridge, MA, 2011.

*McConnell, B.L., *Miguez, G., *Laborda, M.A., & Miller, R.R. Retroactive cue interference depends on the associative status of the interfering cue. Eastern Psychological Association. Cambridge, MA, 2011.

*Miguez, G., *Cham, H., & Miller, R.R. Parallels between renewal after blocking and after interference. Psychonomic Society. Seattle, WA, 2011.

*Miguez, G., *Cham, H., & Miller, R.R. Spontaneous recovery and renewal of conditioned fear after retroactive cue interference in rats. International Comparative Cognition Society. Seattle, WA, 2011.

*Miguez, G., *Laborda, M.A., *McConnell, B.L., & Miller, R.R. Contextual specificity of latent inhibition and conditioned inhibition. Chilean Congress of Psychology. Santiago, Chile, 2011.

*Miguez, G., & Miller, R.R. The effect of training in multiple contexts on the renewal of retroactive cue interference. Eastern Psychological Association. Cambridge, MA, 2011.

Miller, R.R. Presidential Perspectives on Psychology. Eastern Psychological Association. Cambridge, MA, 2011. (Invited address.)

Miller, R.R., & *Laborda, M.A. Extinction and recovery: Theory, current research, and potential applications. Society for the Quantitative Analysis of Behavior. Denver, CO, 2011. (Invited address.)

Miller, R.R., *Miguez, G., *Laborda, M.A., *McConnell, B.L., & *Polack, C.W. Understanding the renewal effect: What is context specific? Psychonomic Society. Seattle, WA, 2011.

*Polack, C.W., *Laborda, M.A., & Miller, R. R. Extinction of Pavlovian conditioned inhibition results in stimulus-specific inhibition. Eastern Psychological Association. Cambridge, MA, 2011.

*Polack, C.W., *Laborda, M.A., & Miller, R.R. The role of the excitatory context in renewal. International Comparative Cognition Society. Seattle, WA, 2011.

*Polack, C.W., *Miguez, G., & Miller, R.R. Reduction in retroactive cue interference through delay and context shift. Eastern Psychological Association. Cambridge, MA, 2011.

Unrod, M., Drobles, D.J., Stasiewicz, R.R., Ditre, J.W., Bouton. M.E., Miller, R.R., Niaura, R.S., & Brandon, T.H. Extinction of cue-provoking craving during cue-exposure therapy for smoking cessation. Society for Research on Nicotine and Tobacco. Toronto, Ontario, Canada, 2011

*Witnauer, J.E., *Montagione, E., & Miller, R.R. A concurrent excitator during extinction deepens extinction in a neutral context and attenuates extinction in an excitatory context. Eastern Psychological Association. Cambridge, MA, 2011.

*Witnauer, J.E., *Wojick, B.M., & Miller, R.R. Conditioned lick suppression is an inverted-U function of US intensity. Eastern Psychological Association. Cambridge, MA, 2011.

*Laborda, M.A., & Miller, R.R. A symposium: Mechanism of extinction and recovery from extinction. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.

*Laborda, M.A., *Polack, C.W., & Miller, R.R. Attenuating the contextual specificity of latent inhibition. Pavlovian Society. New York, NY, 2012.

*Laborda, M.A., *Polack, C.W., & Miller, R.R. Preventing recovery from CS preexposure. International Comparative Cognition Society. Melbourne, FL, 2012.

*Laborda, M.A., *Polack, C.W., & Miller, R.R. Stimulus-like roles of contexts in extinction. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.

*Laborda, M.A., *Polack, C.W., & Miller, R.R. Stimulus-specific conditioned inhibition and experimental renewal. Eastern Psychological Association. Pittsburgh, PA, 2012.

*McConnell, B.L., & Miller, R.R. The effects of compound extinction on renewal. Gregynog Associative Learning Symposium. Gregynog, United Kingdom, 2012.

*Miguez, G., *Cham, H.X., & Miller, R.R. Analogies between forward blocking and proactive cue interference on context dependency. International Comparative Cognition Society. Melbourne, FL, 2012.

*Miguez, G., *Mash, L., *Laborda, M.A., & Miller, R.R. Analogies and relations between associative cue interference and cue competition. Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.

*Miguez, G., *Mash, L., & Miller, R.R. Reduction and enhancement of Pavlovian retroactive cue interference as a function of training in multiple contexts. Pavlovian Society. New York, NY, 2012.

*Miguez, G., Molet, M., & Miller, R.R. Temporal integration of sensory preconditioning occurs at test. Eastern Psychological Association. Pittsburgh, PA, 2012.

Miller, R.R., *Miguez, G., *Cham, H.X., *Burney, C., & Molet, M. When does integration of independent temporal maps take place?. International Comparative Cognition Society. Melbourne, FL, 2012.

Miller, R.R., Molet, M., & *Miguez, G. The temporal coding hypothesis: Temporal relationships as part of associative structure. Conference on Encoding and Memory of Duration. Saint-Remy-les-Chevreuse, France, 2012. (Invited address.)

Miller, R.R., & *Cody, C.W. Parallels between perceptual learning and Pavlovian conditioning: Contrasting conditioned inhibition and second-order conditioning. Psychonomic Society. Minneapolis, MN, 2012.

Miller, R.R., *Polack, C.W., & *McConnell, B.L. Associative bases of causal learning in rats. Pavlovian Society. New York, NY, 2012. (Invited address.)

Molet, M., *Miguez, G., & Miller, R.R. When does integration of temporal maps take place? Joint meeting of the International Society for Comparative Psychology and Spanish Society for Comparative Psychology. Jaen, Spain, 2012.

Molet, M., *Miguez, G., & Miller, R.R. When does integration of independent temporal maps take place? French Society for the Study of Animal Behavior. Saint-Etienne, France, 2012.

*Polack, C.W., *Laborda, M.A., & Miller, R.R. The basis of differences among ABA, ABC, and AAC renewal. Eastern Psychological Association. Pittsburgh, PA, 2012.

*Polack, C.W., & Miller, R.R. Facilitation of within-compound associations. Pavlovian Society. New York, NY, 2012.

*Polack, C.W., & Miller, R.R. Inhibition and facilitation using Espinet pretraining. International Comparative Cognition Society. Melbourne, FL, 2012.

*Laborda, M.A., *Schofield, C., *Johnson, E.M., *Schubert, J.R., *George-Denn, D., Coles, M.E., & Miller, R.R. Public speaking fear: Its extinction and return. World Congress of Behavioural and Cognitive Therapies. Lima, Peru, 2013.

*Mash, L.E., *Miguez, G., *Cham, H., & Miller, R.R. Assessment of physical and temporal context changes in retrieval-induced forgetting. Eastern Psychological Association. New York, NY, 2013.

*Miguez, G., *Laborda, M.A., & Miller, R.R. Context-shift effects in extinction and latent inhibition. Eastern Psychological Association. New York, NY, 2013.

Miller, R.R. The application of learning theory: From the laboratory to the real world. Japanese Psychological Association, Sapporo, Japan, 2013. (Keynote address.)

Miller, R.R. The pervasiveness of contrast effects: Acquired behavior depends on post-acquisition information processing. Japanese Society for Animal Psychology. Tokyo, Japan, 2013. (Keynote address.)

Miller, R.R., *Miguez, G., & *Laborda, M.A. Context specificity of ambiguous information. International Comparative Cognition Society. Melbourne, FL, 2013.

Miller, R.R., Molet, M., *Miguez, G., *Mash, L.E., Craddock, R., & Kosinski, T. Attenuating evaluative conditioning: A theoretical issue with clinical implications. Psychonomic Society. Toronto, Ontario, Canada, 2013.

Miller, R.R., & Witnauer, J.E. Rescorla and his legacy, with a focus on total-error reduction. Eastern Psychological Association. New York, NY, 2013. (Invited paper)

*Polack, C.W., *Miguez, G., Molet, M., & Miller, R.R. The associative structure of temporally integrated representations. Eastern Psychological Association. New York, NY, 2013.

*Mallea, J., *Miguez, G., & Miller, R.R. Context shifts affect interference with conditioned inhibition by latent inhibition. Chilean Psychological Association. Chillan City, Chile, 2014.

*Miguez, G., *Polack, C.W., *Mash, L., & Miller, R.R. Contextual independence of retrieval-induced forgetting. Chilean Psychological Association, Chillan City, Chile, 2014.

*Miguez, G., *Soares, J.S., & Miller, R.R. Context shifts affect interference with conditioned inhibition by latent inhibition. Eastern Psychological Association. Boston, MA, 2014.

*Miguez, G., *Soares, J.S., & Miller, R.R. Contextual specificity of cue pre-exposure's interference with subsequently trained conditioned inhibition. International Society for Comparative Psychology. Bogota, Columbia, 2014.

Molet, M., Miller, R.R., *Miguez, G., *Mash, L.E., Craddock, P., & Kosinski, T. Attenuating the learning of the affective values of others with memory-suppression techniques. European Association of Social Psychology. Amsterdam, NL, 2014.

*Polack, C.W., & Miller, R.R. Inhibitory and facilitative perceptual learning. Eastern Psychological Association. Boston, MA, 2014.

*Soares, J.S., *Polack, C.W., & Miller, R.R. Assessing the inhibition and context accounts of retrieval-induced forgetting. Psychonomic Society. Long Beach, CA, 2014.

*Soares, J.S., *Polack, C.W., *Miguez, G., & Miller, R.R. Is retrieval-induced forgetting dependent on competition between exemplars? Eastern Psychological Association. Boston, MA, 2014.

*Miguez, G., & Miller, R.R. The role of associative interference in blocking as assessed by analogies between cue competition and cue interference in context dependency. Eastern Psychological Association. Philadelphia, PA, 2015.

*Miguez, G., *Soares, J. & Miller, R.R. Contextual specificity of cue pre-exposure's interference with subsequently trained conditioned inhibition. International Society for Comparative Psychology. Bogota, Colombia, 2015.

Miller, R.R. Implications of retrospective reevaluation for models of learning and memory. International Conference on Comparative Cognition. Melbourne, FL, 2015.

Miller, R.R. The construct of attention and beyond: Homage to N J Mackintosh. Pavlovian Society. Portland, OR, 2015. Invited address.

*Polack, C.W., *O'Hara, S.R., & Miller, R.R. A novel assessment of inhibition between conditioned stimuli: Retardation and suppression of cue competition. Eastern Psychological Association. Philadelphia, PA, 2015.

*Polack, C.W., *O'Hara, S.R., & Miller, R.R. Assessing inhibitory associations between cues produced by inhibitory perceptual learning treatment. Psychonomic Society. Chicago, IL, 2015.

*Soares, J., *Polack, C.W., & Miller, R.R. Assessment of the context-shift account of retrieval-induced forgetting. Eastern Psychological Association. Philadelphia, PA, 2015.

Miller, R.R. Sources of forgetting and the fate of forgotten memories. Spanish Society for Comparative Psychology. Barcelona, Spain, 2016. Keynote address.

Miller, R.R. The comparator hypothesis: An associative model focused on retrieval and expression of acquired information. Dijon Conference on Human Associative Learning. Dijon, France. Keynote address.

Miller, R.R. The role of encoded interstimulus intervals in cue competition and associative interference. Experimental Psychology Society. Durham, UK, 2016. Invited address.

Miller, R.R., & *Polack, C.W. Stepping back from 'persistence and relapse' to see the forest: Determinants of associative interference. Society for the Quantitative Analysis of Behavior. Chicago, IL, 2016.

*Perez, R.W., *Polack, C.W., & Miller, R.R. A unified model accounting for stimulus interaction between stimuli trained together or trained apart. Eastern Psychological Association. New York, NY, 2016.

*Polack, C.W., *Kurian, T., *Chen, F., *Wasserman, J., *O'Hara, S., *Szabo, C., & Miller, R. R. Enhancing retrieval-induced forgetting by increasing competition. Eastern Psychological Association. New York, NY, 2016.

*Polack, C.W., *O'Hara, S., & Miller, R.R. Associative structure of inhibitory perceptual learning. Pavlovian Society. New York, NY, 2016.

Witnauer, J.E., & Miller, R.R. Leveling the playing field for comparing models of learning. Conference of Computational Modeling of Classical Conditioning. London, UK, 2016.

Miller, R.R. A taxonomy of forgetting and the fates of forgotten memories. International Conference on Comparative Cognition. Melbourne, FL, 2017. Master lecture.

*Polack, C.W., *Seitz, B.M., & Miller, R.R. Adaptive Memory: Is there a reproductive processing effect? International Conference on Comparative Cognition. Melbourne, FL, 2017.

*Polack, C.W., *Wasserman, J.S., Craddock, P., & Miller, R.R. Mediated performance or

mediated extinction in sequential second-order conditioning. Eastern Psychological Association. Boston, MA, 2017.

*Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Associative learning in dementia: Implications for the role of verbal strategies in associative learning. Society for the Quantitative Analysis of Behavior. Denver, CO, 2017.

*Renaux, C., Rivière, V., Craddock, P., & Miller, R.R. Spatial contiguity's contribution to the formation of associations between neutral stimuli. Association for Behavioral Analysis International. Denver, CO, 2017.

*Seitz, B.M., Craddock, P., *Wasserman, J.S., Polack, C.W., & Miller, R.R. Support for mediated performance over mediated extinction in sequential second-order conditioning. Conference on Comparative Cognition. Melbourne, FL, 2017.

Unrod, M., Drobles, D.J., Sutton, S.K., Brandon, K., Hawk, L., Simmons, V., Meltzer, V., Miller, R.R., & Brandon, T.H. Facilitated extinction training to improve pharmacotherapy for smoking cessation: A pilot feasibility trial. Society For Research On Nicotine and Tobacco. Florence, Italy, March 9, 2017.

*Wasserman, J.S., *Seitz, B.M., *Polack, C.W., & Miller, R.R. Adaptive memory: Is there a reproductive processing effect? Eastern Psychological Association. Boston, MA, 2017.

Invited colloquia (in approximate chronological order) given at:

University of Florida, University of Maine, Hollins College, SUNY-Plattsburgh, CUNY-Brooklyn, SUNY-Downstate Medical Center, CUNY-Queens, University of Michigan, SUNY-Binghamton, Memorial University of Newfoundland (Canada), University of Toronto (Canada), Iowa State University, Erindale College (Canada), Cambridge University (UK), University of Milan Medical School (Italy), University of Reading (UK), University of Sussex (UK), University of Birmingham (UK), CUNY-Hunter, University of Wales (UK), Medical School of the University of Lyons (France), Oxford University (UK), University College of London (UK), National Hospital (UK), MRC Applied Psychology Unit (UK), New York University, Binghamton Conference on Ontogeny of Learning and Memory, University of California-Irvine, CUNY-Graduate Center, Fairfield University, SUNY-Stony Brook, University of Pennsylvania Medical School, Cambridge University (UK), Susquehanna University, Kings College, Rutgers University, Utah Conference on State-Dependent Behavior, University of California at Los Angeles, Columbia University, UNED (Spain), University of Cadiz Medical School (Spain), University of Seville (Spain), Spanish Comparative Psychology Society, SUNY-Binghamton (Biology), Indiana University, Bucknell University, University of Delaware, Hangzhou University (China), Institute of Psychology (Chinese National Academy of Sciences), Beijing University (China), American University, SUNY-Binghamton (Biology Department), University of Cadiz (Spain), University of Seville (Spain), Spanish Comparative Psychology Society, Northwestern University, Kent State University, University of New South Wales (Australia), Purdue University, INSERM 405 Strasbourg (France), University Louis Pasteur School of Medicine (France), University of Deusto (Spain), University of Pennsylvania, Cleveland State University, Rutgers University, Brooklyn College of CUNY, Duke University, University of Santiago de Compostela (Spain), University of the Basque Country (San Sebastian, Spain), University of Barcelona (Spain), University of Granada (Spain), Comprehensive University of Madrid (Spain), Clarion University, University of Seville (Spain), University of New Hampshire, SUNY-Binghamton, McGill University (Canada), University of South Florida University, Canterbury University (New Zealand), University of Waikato (New Zealand),

University of Otago (New Zealand), Brown University, Greensboro University, University of North Carolina at Greensboro, Appalachian State University, University of Akron, McMaster University (Canada), McGill University (Canada), Universidad de las Americas (Chile), Syracuse University, Baldwin-Wallace College, University of Seville (Spain), Australian National University, Duke University, Universidad de Chile (Chile), University of Buffalo-SUNY, University of Guadalajara (Mexico), University of Paris Sud (France), Kwansei Gakuin University (Japan), University of New Mexico, SUNY-Brockport, University of Lille (France), Ghent University (Belgium), Catholic University (KU) of Leuven (Belgium), Ruhr University at Bochum (Germany), University of Paris Sud (France), Exeter University (UK), University of the Basque Country (San Sebastian, Spain), City University - London (UK), University of Oxford (UK), University of Leicester (UK), UNED (Spain), University of Bourgogne (France).