

Curriculum Vitae

Roger Ratcliff

Current position: Distinguished Professor of Behavioral and Social Sciences, Ohio State University

Personal Data:

Department of Psychology,

Ohio State University,

Columbus, OH 43210

Office phone: (614) 292 7916

Birth date: 5/20/47

Nationality: US citizen

Education:

University of Auckland, New Zealand, B.Sc., 1968, Mathematics & Physics

University of Auckland, New Zealand, M.Sc., 1970, Physics

University of Auckland, New Zealand, Ph.D., 1974, Psychology

Professional Experience:

Distinguished Professor of Behavioral and Social Sciences, Ohio State University, July 1, 2003-

Adjunct Professor of Neurobiology and Physiology, Northwestern University, 2003-2004.

Professor, Northwestern University, Sept. 1983-2003

Associate Professor, Yale University, July 1981 - Sept. 1983

Visiting Assistant Professor, Rockefeller University, March - Sept., 1979

Assistant Professor, Dartmouth College, July 1977 - July 1981

Post Doctoral Fellow with B. B. Murdock, Jr., University of Toronto, Sept. 1974 - Aug. 1977

Prizes, Awards, and Recognition:

Troland Research Award, National Academy of Sciences, 1986.

Research Scientist Award, NIMH, 1990-1995.

Fellow of the Society of Experimental Psychologists, March, 1995.

Fellow, American Psychological Society, Jan., 1997.

NIMH MERIT award. Aug., 1999-2009.

Research Scientist Award, NIMH, 2000-2005.

Warren Medal, Society of Experimental Psychologists, April, 2002.

ISI Highly Cited Researcher, June, 2003.

Grants:

NIH small grant, 1978; Retrieving organized information from memory.

NIH small grant, 1979; Automatic and strategic activation in lexical decision.

Co-PI NICHD grant, 1979-1986; Reading and the acquisition of knowledge.

NSF grant, 1982-1985; Order information in perceptual matching.

NSF grant, 1985-1988; Retrieval processes in memory.

RIU supplement for undergraduate research to my NSF grant, 1987.

APA International Congress of Psychology Travel Award, 1988.

NIMH grant, 1989-1994; Retrieval processes in memory.
 NIMH Research Scientist Award, 1990-1995.
 Co-PI NIDCD grant, 1991-1995; Intonation and sentence processing.
 ADAMHA Small Instrumentation Grant, 1991.
 NIMH grant, 1994-1999; Retrieval processes in memory.
 Co-PI NIDCD grant, 1997-2001.
 Co-PI NIDCD grant, 2003-2008.
 NIMH MERIT Award, 1999-2009; Retrieval processes in memory.
 NIMH 1999-2005. Neural recordings and reaction time models.
 NIA 1999-2010. Modeling the effects of aging on reaction time,
 NIMH Research Scientist Award, 2000-2004

First Placement of Postdoctoral Fellows and Research Associates:

Farrell - University of Bristol, England
 Wagenmakers - University of Amsterdam, Netherlands
 Gomez - DePaul University (a graduate student)
 Rouder - University of Missouri
 Allbritton - University of Pittsburgh
 Van Zandt - Johns Hopkins University
 Greene, Princeton University
 Balakrishnan - Purdue University
 Heathcote - University of New South Wales, Australia
 Sheu - DePaul University
 Gronlund - University of Oklahoma
 Dell - University of Rochester

Publications:

Duder, J., Glavish, H., & Ratcliff, R. (1971). A D.W.B.A. treatment of the d+d reaction at low energies. In *Polarization Phenomena in Nuclear Reactions*, Proceedings of the Third International Symposium, Madison, Wisconsin. Barschall, H. & Haeberli, W. (Ed.) University of Wisconsin Press.

Ratcliff, R. (1976). A mathematical model for paced serial addition. *Journal of Mathematical Psychology*, 13, 46-78.

Ratcliff, R. & Murdock, B. B., Jr. (1976). Retrieval processes in recognition memory. *Psychological Review*, 83, 190-214.

Ratcliff, R. (1978). A theory of memory retrieval. *Psychological Review*, 85, 59-108.

Ratcliff, R., & McKoon, G. (1978). Priming in item recognition: Evidence for the propositional structure of sentences. *Journal of Verbal Learning and Verbal Behavior*, 17, 403-417.

Hacker, M. J., & Ratcliff, R. (1979). A revised table of d' for M-alternative forced choice. *Perception and Psychophysics*, 26, 168-170.

McKoon, G., & Ratcliff, R. (1979). Priming in episodic and semantic memory. *Journal of Verbal Learning and Verbal Behavior*, 18, 463-480.

Ratcliff, R. (1979). Group reaction time distributions and an analysis of distribution statistics. *Psychological Bulletin*, 86, 446-461.

Ratcliff, R., & McKoon, G. (1979). Roots of modern cognitive psychology. (Review of Cognitive Psychology and Information

Processing by Lachman, Lachman, & Butterfield). *Contemporary Psychology*, 24, 917-918.

- McKoon, G., & Ratcliff, R. (1980). Priming in item recognition: The organization of propositions in memory for text. *Journal of Verbal Learning and Verbal Behavior*, 19, 369-386.
- McKoon, G., & Ratcliff, R. (1980). The comprehension processes and memory structures involved in anaphoric reference. *Journal of Verbal Learning and Verbal Behavior*, 19, 668-682.
- Ratcliff, R. (1980). A note on modeling accumulation of information when the rate of accumulation changes over time. *Journal of Mathematical Psychology*, 21, 178-184.
- Ratcliff, R. & Hockley, W. E. (1980). Repeated negatives in item recognition: Nonmonotonic lag functions. In R.S. Nickerson (Ed.), *Attention and Performance VIII*. Hillsdale, N.J.: Erlbaum.
- Ratcliff, R. (1981). A theory of order relations in perceptual matching. *Psychological Review*, 88, 552-572.
- Dell, G.S., Ratcliff, R., & McKoon, G. (1981). Study and test repetition effects in item recognition priming. *American Journal of Psychology*, 94, 497-511.
- Ratcliff, R. (1981). Parallel processing mechanisms and processing of organized information in human memory. In Anderson, J. A. & Hinton, G. (Eds.), *Parallel Models in Associative Memory*. Hillsdale, N.J.: Erlbaum.
- Ratcliff, R., & Hacker, M.J. (1981). Speed and accuracy of same and different responses in perceptual matching. *Perception and Psychophysics*, 30, 303-307.
- Ratcliff, R., & McKoon, G. (1981). Automatic and strategic priming in recognition. *Journal of Verbal Learning and Verbal Behavior*, 20, 204-215.
- McKoon, G., & Ratcliff, R. (1981). The comprehension processes and memory structures involved in instrumental inference. *Journal of Verbal Learning and Verbal Behavior*, 20, 671-682.
- Ratcliff, R. & Layton, W. M. (1981). A microcomputer interface for control of real time experiments in cognitive psychology. *Behavior Research Methods & Instrumentation*, 13, 216-220.
- Ratcliff, R., & McKoon, G. (1981). Does activation really spread? *Psychological Review*, 88, 454-462.
- Ratcliff, R. & Hacker, M.J. (1982). On the misguided use of reaction time differences: A reply to Proctor and Rao (1982). *Perception and Psychophysics*, 31, 603-604.
- Ratcliff, R., & McKoon, G. (1982). Speed and accuracy in the processing of false statements about semantic information. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 8, 16-36.
- Dell, G.S., McKoon, G., & Ratcliff, R. (1983). The activation of antecedent information during the processing of anaphoric reference in reading. *Journal of Verbal Learning and Verbal Behavior*, 22, 121-132.
- McKoon, G. & Ratcliff, R. (1984). Priming and on-line text comprehension. In Kieras & Just, (Eds.), *New methods in reading comprehension research* (pp. 119-128). Hillsdale, N.J.: Erlbaum.
- McNamara, T.P., Ratcliff, R., & McKoon, G. (1984). The mental representation of knowledge acquired from maps. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 10, 723-732.
- McKoon, G., Ratcliff, R., & Dell, G. (1985). The role of semantic facilitation in episodic retrieval. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 11, 742-751.
- Ratcliff, R., Hockley, W., & McKoon, G. (1985). Components of activation: Repetition and priming effects in lexical decision and recognition. *Journal of Experimental Psychology: General*, 114, 435-450.
- Ratcliff, R. (1985). Theoretical interpretations of speed and accuracy of positive and negative responses. *Psychological Review*, 92, 212-225.

- McKoon, G., & Ratcliff, R. (1986). Inferences about predictable events. *Journal of Experimental Psychology: Learning, Memory and Cognition*, *12*, 82-91.
- McKoon, G., & Ratcliff, R. (1986). The automatic activation of episodic information in a semantic memory task. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *12*, 108-115.
- McKoon, G., Ratcliff, R., & Dell, G. (1986). A critical evaluation of the semantic/episodic distinction. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *12*, 295-306.
- Ratcliff, R., & McKoon, G. (1986). More on the distinction between episodic and semantic memories. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *12*, 312-313.
- Ratcliff, R., Pino, C., & Burns, W.T. (1986). An inexpensive real-time microcomputer-based cognitive laboratory system. *Behavior Research Methods, Instruments, & Computers*, *18*, 214-221.
- Seifert, C.M., McKoon, G., Abelson, R.P., & Ratcliff, R. (1986). Memory connections between thematically similar episodes. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *12*, 220-231.
- Ratcliff, R. (1987). Order information and distributed memory models. In *Proceedings of the Ninth Annual Conference of the Cognitive Science Society*, Hillsdale, N.J.: Erlbaum.
- Ratcliff, R. (1987). More on the speed and accuracy of positive and negative responses. *Psychological Review*, *94*, 277-280.
- Greene, S., Ratcliff, R., & McKoon, G. (1988). A flexible programming language for cognitive psychology experiments. *Behavior Research Methods, Instruments, & Computers*, *20*, 119-128.
Steve Greene won the Student Award from the Society for Computers in Psychology for this article.
- McKoon, G. & Ratcliff, R. (1988). Contextually relevant aspects of meaning. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *14*, 331-343.
- Ratcliff, R. (1988). A note on the mimicking of additive reaction time models. *Journal of Mathematical Psychology*, *32*, 192-204.
- Ratcliff, R. (1988). Continuous versus discrete information processing: Modeling the accumulation of partial information. *Psychological Review*, *95*, 238-255.
- Ratcliff, R. & McKoon, G. (1988). A retrieval theory of priming in memory. *Psychological Review*, *95*, 385-408.
- Ratcliff, R. & McKoon, G. (1989). Similarity information versus relational information: Differences in the time course of retrieval. *Cognitive Psychology*, *21*, 139-155.
- Ratcliff, R., McKoon, G. & Verwoerd, M. (1989). A bias interpretation of facilitation in perceptual identification. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *15*, 378-387.
- Ratcliff, R. & McKoon, G. (1989). Memory models, text processing, and cue- dependent retrieval. In F.I.M. Craik & H.L. Roediger (Eds.), pp 73-92. *Varieties of memory and consciousness: Essays in honour of Endel Tulving*. Hillsdale, NJ: Erlbaum.
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- McKoon, G., Ratcliff, R., & Seifert, C. (1989). Making the connection: Generalized knowledge structures in story understanding. *Journal of Memory and Language*, *28*, 711-734.
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In Anderson, J. A. & Hinton, G. (Eds.), *Parallel Models in Associative Memory*. Hillsdale, N.J.: Erlbaum, revised edition (reprinted with commentary).

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- McKoon, G. & Ratcliff, R. (1990). Textual inferences: Models and measures. In D.A. Balota, G.B. Flores d'Arcais, & K. Rayner (Eds.), *Comprehension Processes in Reading* (pp. 403-421). Hillsdale, NJ: Erlbaum.
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- Ratcliff, R. (1994). Computers in cognitive psychology. Invited plenary address for the computers in psychology conference. *Behavior Research Methods, Instruments, and Computers*, 26, 94-106.
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- McKoon, G., & Ratcliff, R. (1995). The minimalist hypothesis: Directions for research. In Weaver, C.A., Mannes, S., & Fletcher, C.R. (Eds.), *Discourse comprehension: Essays in honor of Walter Kintsch*. Hillsdale, NJ: Lawrence Erlbaum Associates.
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- McKoon, G., & Ratcliff, R. (1995). Conceptual combination and relational contexts in free association and in priming in lexical decision. *Psychonomic Bulletin and Review*, 2, 527-533.
- Ratcliff, R., & McKoon, G. (1995). Bias in the priming of object decisions. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 21, 754-767.
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- Balakrishnan, J.D., & Ratcliff, R. (1996). Testing models of decision making using confidence ratings in classification. *Journal of Experimental Psychology: Human Perception and Performance*, 22, 615-633.
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- McKoon, G., & Ratcliff, R. (1996). Separating implicit from explicit retrieval processes in perceptual identification. *Consciousness and Cognition*, 5, 500-511.
- Ratcliff, R., & McKoon, G. (1996). Biases in implicit memory tasks. *Journal of Experimental Psychology: General*, 125, 403-421.
- Ratcliff, R., Allbritton, D.W., & McKoon, G. (1997). Bias in auditory priming. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 23, 143-152.

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- Ratcliff, R., & Rouder, J.N. (1998). Modeling response times for two-choice decisions. *Psychological Science*, *9*, 347-356.
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- Ratcliff, R. (1998). The role of mathematical psychology in experimental psychology. *Australian Journal of Psychology*, *50*, 129-130.
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- Segraves, M.A., Cherian, A. & Ratcliff, R. (1999). Rhesus monkey performance and superior colliculus activity during a reaction time task. *Society for Neuroscience Abstracts*, *25*, 19-20.
- Ratcliff, R., & Rouder, J.N. (2000). A diffusion model account of masking in two-choice letter identification. *Journal of Experimental Psychology: Human Perception and Performance*, *26*, 127-140.
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- Ratcliff, R. (2001). Putting noise into neurophysiological models of simple decision making (letter). *Nature Neuroscience*, *4*, 336.
- Ratcliff, R., Thapar, A., & McKoon, G. (2001). The effects of aging on reaction time in a signal detection task. *Psychology and Aging*, *16*, 323-341.
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- McKoon, G. & Ratcliff, R. (2003). Meaning through syntax: Language comprehension and the reduced relative clause construction. *Psychological Review*, *110*, 490-525.
- Ratcliff, R., Segraves, M. & Cherian, A. (2003). A comparison of macaque behavior and superior colliculus neuronal activity to

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- Ratcliff, R., Spieler, D. & McKoon, G. (2004) Analysis of group differences in processing speed: Where are the models of processing? *Psychonomic Bulletin and Review*, *11*, 755-769.
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Teaching Experience:

1. Teaching Fellow in Physics, 1970 - 1974

Duties included leading discussion sections and supervising laboratories at all levels of undergraduate physics.

2. Teaching Fellow in Psychology, 1973 - 1974

Duties included tutoring first and second level courses in statistics and teaching half of a graduate course in mathematical psychology.

3. Courses taught at Dartmouth, Yale and Northwestern:

Undergraduate cognition

Undergraduate statistics

Undergraduate learning and memory

Graduate statistics

Graduate cognition

Seminar in artificial intelligence and psychology

Lectures in introductory psychology

Graduate proseminar

Graduate mathematical psychology

Undergraduate experimental design

Graduate memory and cognition

Mathematical models of cognitive psychology

Graduate seminar in mathematical models of cognitive psychology

Graduate course on reaction time models and methods (including curve fitting, and other modeling fundamentals).

Graduate course on connectionist models.

Undergraduate statistics (introductory and advanced), design, and modeling.

4. Courses at Ohio State.

Graduate memory and cognition

Honors undergraduate memory and cognition

Undergraduate statistics

Graduate course on statistical methods

Graduate mathematical models of cognitive psychology