

## Curriculum Vitae

### Roger Ratcliff

Current position: Distinguished University Professor, Ohio State University

#### **Personal Data:**

Department of Psychology,  
Ohio State University,  
Columbus, OH 43210

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 University Professor, Ohio State University, 2020-

Distinguished Professor of Behavioral and Social Sciences, Ohio State University, 2003-2020.

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

Visiting Professor, University of Amsterdam, 2011-2014

#### **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.

Distinguished Scholar Award, Ohio State University, 2010.

Elected to the American Academy of Arts and Sciences, 2015.

Distinguished University Professor, 2020.

#### **Service:**

Editorial Board of Journal of Experimental Psychology: Learning, Memory, and Cognition, 1981-1987, 1995-2000.

Editorial Board of Psychological Review, 1988-1994, 1996-.

Editorial Board of Decision, 2014-.

Editorial Board of Journal of Mathematical Psychology, 1985-  
(with editorial responsibility for choice of reviewers and acceptance/rejection of papers).

Occasional reviews for the Journal of Memory and Language, Science, Psychological Bulletin, Cognitive Psychology, the National Science Foundation, Memory and Cognition, Journal of Experimental Psychology: Human Performance and Perception, Journal of Experimental Psychology: General, Psychological Bulletin, Psychonomic Bulletin and Review, Perception and Psychophysics, National Institute of Mental Health, Air Force Office of Scientific Research, and others.

Panel member for the NSF Presidential Young Investigators Award, 1986, 1988, 1991.

Member of Psychonomics Society, APS, and Mathematical Psychology Society.

Organizer, Mathematical Psychology Meetings, 1988.

Governing board of the Psychonomics Society, 1989-1994.

Panel member of the NIMH Cognition, Emotion and Personality review panel, 1990-1994 (Reviewer's reserve, 1995-1999).

Site visit team member for NIMH review of James McClelland's Program Project application, July, 1990.

NIMH special review committee, Feb., 1995; Oct., 1995.

NIMH special review committee chair, Nov., 1995.

NSF Learning and Intelligent Systems panel, Feb., 1997.

NIMH Training grant review committee, Chair, Oct., 2003.

NIH, OPPNET meeting, Oct., 2010, discussant

NRC/NCI workshop on cognitive deficits in cancer treatment, May, 2011, discussant.

NIH Cognition and Perception panel (CP) member (Feb. 2018).

### **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. \$96,000 per year total costs

NIMH Research Scientist Award, 1990-1995. \$88,500 per year total costs

Co-PI NIDCD grant, 1991-1995; Intonation and sentence processing. \$153,000 total costs per year

ADAMHA Small Instrumentation Grant, 1991

NIMH grant, 1994-1999; Retrieval processes in memory. About \$100,000 per year direct costs

Co-PI NIDCD grant, 1997-2001, \$523,000 total costs

Co-PI NIDCD grant, 2003-2008, \$1,098,881 total costs.

NIMH MERIT Award, 1999-2009; Retrieval processes in memory. About \$200,000 in total costs per year

NIMH 1999-2005. Neural recordings and reaction time models, \$240,000 per year total costs

NIA 1999-2010. Modeling the effects of aging on reaction time, \$340,000 per year total costs

NIMH Research Scientist Award, 2000-2004

NIMH 2010-2014. Multimodal neuroimaging for mapping decision making in the human brain (subcontract from Columbia University), \$62,000 per year total costs.

AFOSR 2011-2014. Modeling perceptual decision processes, \$149,000 per year total costs

DOEdu-IES 2012-2016. An experimental and cognitive modeling investigation of struggling adult readers' skills, \$400,000 per year total costs

NIA 2012-2017. Toward using comprehensive decision-making models in neuropsychological testing, ~\$140,000 per year total costs

NIA R56 2017-2019. Decision Making on Continuous Scales in Aging and Alzheimer's Disease, \$575,000 total costs

NIA R01 2017-2022. Integrated Cognitive and Decision Models with Applications to Aging and Numeracy, ~\$660,000 total costs per year

NIA R01 2020-2024. Decision Making on Continuous Scales in Aging and Alzheimer's Disease, \$495,000 total costs per year.

**First Placement of Postdoctoral Fellows and Research Associates:**

Voskuilen - Ford Motor Company

White - Syracuse University

Starns - University of Massachusetts

Leite - Ohio State University

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. & Haerberli, 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 Cognitive Science Society* (pp. 474-486). 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.
- McKoon, G., & Ratcliff, R. (1989). Semantic association and elaborative inference. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *15*, 326-338.
- McKoon, G., & Ratcliff, R. (1989). Assessing the occurrence of elaborative inference with recognition: Compatibility checking vs.

compound cue theory. *Journal of Memory and Language*, 28, 547-563.

McKoon, G., & Ratcliff, R. (1989). Inferences about contextually- defined categories. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 15, 1134-1146.

McKoon, G., Ratcliff, R., & Seifert, C. (1989). Making the connection: Generalized knowledge structures in story understanding. *Journal of Memory and Language*, 28, 711-734.

Ratcliff, R. (1989). Commentary on 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, revised edition (reprinted with commentary).

Gronlund, S.D. & Ratcliff, R. (1989). Time course of item and associative information: Implications for global memory models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 15, 846-858.

Ratcliff, R. (1990). Connectionist models of recognition memory: Constraints imposed by learning and forgetting functions. *Psychological Review*, 97, 285-308.

McKoon, G., & Ratcliff, R. (1990). Dimensions of inference. In A. Graesser and G. Bower, eds., *The Psychology of Learning and Motivation: Vol. 25. Inferences and text comprehension* (pp. 313-328). New York: Academic Press.

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.

Ratcliff, R., Clark, S.E., & Shiffrin, R.M. (1990). List strength effect I: Data and Discussion. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 16, 163-178.

Shiffrin, R.M., Ratcliff, R., & Clark, S. (1990). List strength effect II: Theoretical mechanisms. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 16, 179-195.

Gronlund, S.D., Sheu, C-F, & Ratcliff, R. (1990). Implementation of global memory models with software that does symbolic computation. *Behavior Research Methods, Instruments, & Computers*, 22, 228-235.

Gronlund, S.D. & Ratcliff, R. (1991). Analysis of the Hockley & Murdock decision model. *Journal of Mathematical Psychology*, 35, 319-344.

Ratcliff, R. & McKoon, G. (1991). Using ROC data and priming results to test global memory models. In S. Lewandowsky and W.E. Hockley (eds.), *Relating Theory and Data: Essays on Human Memory in Honor of Bennet B. Murdock, Jr.* (pp. 279-296). Hillsdale, NJ: Erlbaum.

McKoon, G. & Ratcliff, R. (1992). Inference during reading. *Psychological Review*, 99, 440-466.

McKoon, G. & Ratcliff, R. (1992). Spreading activation versus compound cue accounts of priming: Mediated priming revisited. *Journal of Experimental Psychology: Learning Memory and Cognition*, 18, 1155-1172.

Greene, S.B., McKoon, G. & Ratcliff, R. (1992). Pronoun resolution and discourse models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 18, 266-283.

Ratcliff, R., Sheu, C-F, & Gronlund, S.D. (1992). Testing global memory models using ROC curves. *Psychological Review*, 99, 518-535.

Ratcliff, R. (1992). Models of Memory. In *The Encyclopedia of Learning and Memory*, L.R. Squire, (Editor in Chief). MacMillan: NY.

McKoon, G., Ward, G., Ratcliff, R., & Sproat, R. (1993). Morphosyntactic and pragmatic factors affecting the accessibility of discourse entities. *Journal of Memory and Language*, 32, 56-75.

McKoon, G., Ratcliff, R., Ward, G., & Sproat, R. (1993). Syntactic prominence effects on discourse processing. *Journal of Memory and Language*, 32, 593-607.

- McKoon, G., Greene, S., & Ratcliff, R. (1993). Discourse models, pronoun resolution, and the implicit causality of verbs. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *19*, 1-13.
- Ratcliff, R. (1993). Methods for dealing with reaction time outliers. *Psychological Bulletin*, *114*, 510-532.
- Shiffrin, R.M., Ratcliff, R., Murnane, K., & Nobel, P. (1993). TODAM and the list-strength and list-length effects: Comment on Murdock and Kahana (1993a). *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *19*, 1445-1449.
- McKoon, G., & Ratcliff, R. (1994). Sentential context and on-line lexical decision. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*, 1239-1243.
- Ratcliff, R., & McKoon, G. (1994). Retrieving information from memory: Spreading activation theories versus compound cue theories. *Psychological Review*, *101*, 177-184.
- Ratcliff, R., McKoon, G. & Tindall, M.H. (1994). Empirical generality of data from recognition memory receiver-operating characteristic functions and implications for the global memory models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*, 763-785.
- McKoon, G., Ratcliff, R., & Ward, G. (1994). Testing theories of language processing: An empirical investigation of the on-line lexical decision task. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *20*, 1219-1228.
- 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.
- Greene, S. B., Gerrig, R. J., McKoon, G., & Ratcliff, R. (1994). Unheralded pronouns and the management of common ground. *Journal of Memory and Language*, *33*, 511-526.
- Sheu, C-F, & Ratcliff, R. (1995). The application of Fourier deconvolution to reaction time data: A cautionary note. *Psychological Bulletin*, *116*, 285-299.
- Van Zandt, T. & Ratcliff, R. (1995). Statistical mimicking of reaction time data: Single-process models, parameter variability, and mixtures. *Psychonomic Bulletin and Review*, *2*, 20-54.
- Ratcliff, R. & McKoon, G. (1995). Sequential effects in lexical decision: Tests of compound cue retrieval theory. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *21*, 1380-1388.
- 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.
- Ratcliff, R., Van Zandt, T., & McKoon, G. (1995). Process dissociation, single process theories, and recognition memory. *Journal of Experimental Psychology: General*, *124*, 352-374.
- McKoon, G., & Ratcliff, R. (1995). Conceptual combinations 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.
- McKoon, G., & Ratcliff, R. (1995). How should implicit memory phenomena be modeled? *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *21*, 777-784.
- 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.
- Allbritton, D.W., McKoon, G., & Ratcliff, R. (1996). Reliability of prosodic cues for resolving syntactic ambiguity. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *22*, 714-735.
- McKoon, G., Allbritton, D.W., & Ratcliff, R. (1996). Sentential context effects on lexical decisions with a cross-modal instead of an all-visual procedure. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, *22*, 1494-1497.

- McKoon, G., & Ratcliff, R. (1995). Separating implicit from explicit retrieval processes in perceptual identification. *Consciousness and Cognition*, 5, 500-511.
- Ratcliff, R., & McKoon, G. (1996). Bias effects 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.
- Ratcliff, R., & McKoon, G. (1997). A counter model for implicit priming in perceptual word identification. *Psychological Review*, 104, 319-343.
- Ratcliff, R., & Rouder, J.N. (1998). Modeling response times for two-choice decisions. *Psychological Science*, 9, 347-356.
- McKoon, G., & Ratcliff, R. (1998). Memory based language processing: Psycholinguistic research in the 1990s. *Annual Review of Psychology*, 49, 25-42.
- Ratcliff, R. (1998). The role of mathematical psychology in experimental psychology. *Australian Journal of Psychology*, 50, 129-130.
- Ratcliff, R., Van Zandt, T., & McKoon, G. (1999). Connectionist and diffusion models of reaction time. *Psychological Review*, 106, 261-300.
- 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.
- Ratcliff, R., & McKoon, G. (2000). Memory models. In E. Tulving and F.I.M. Craik (Eds.), pp 571-582. *Oxford Handbook of Memory*, Oxford University Press: New York.
- Ratcliff, R., & McKoon, G. (2000). Modeling the effects of repetition and word frequency in perceptual identification. *Psychonomic Bulletin and Review*, 7, 713-717.
- Ratcliff, R., Spieler, D. & McKoon, G. (2000). Explicitly modeling the effects of aging on response time. *Psychonomic Bulletin and Review*, 7, 1-25.
- Rouder, J.N., Ratcliff, R., & McKoon, G. (2000). A neural network model of implicit memory in object recognition. *Psychological Science*, 11, 13-19.
- McKoon, G., & Ratcliff, R. (2001). Counter model for word identification: A reply to Bowers (1999). *Psychological Review*, 108, 674-681.
- Ratcliff, R. (2001). Diffusion and random walk processes. *International encyclopedia of the social and behavioral sciences*, Oxford, England: Elsevier, 6, 3668-3673.
- 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.
- Ratcliff, R., & McKoon, G. (2001). A multinomial model for short-term priming in word identification. *Psychological Review*, 108, 835-846.
- Tuerlinckx, F., Maris, E., Ratcliff, R., & De Boeck, P. (2001). A comparison of four methods for simulating the diffusion process. *Behavior Research Methods, Instruments, and Computers*, 33, 443-456.
- Ratcliff, R. (2002). A diffusion model account of reaction time and accuracy in a brightness discrimination task: Fitting real data



and failing to fit fake but plausible data. *Psychonomic Bulletin and Review*, 9, 278-291.

- Ratcliff, R., & Tuerlinckx, F. (2002). Estimating the parameters of the diffusion model: Approaches to dealing with contaminant reaction times and parameter variability. *Psychonomic Bulletin and Review*, 9, 438-481.
- 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 predictions from models of simple two-choice decisions. *Journal of Neurophysiology*, 90, 1392-1407.
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- Thapar, A., Ratcliff, R., & McKoon, G. (2003). A diffusion model analysis of the effects of aging on letter discrimination. *Psychology and Aging*, 18, 415-429.
- Ratcliff, R., Gomez, P., & McKoon, G. (2004). A diffusion model account of the lexical decision task. *Psychological Review*, 111, 159-182.
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- Ratcliff, R. & Smith, P. L. (2004). A comparison of sequential sampling models for two-choice reaction time. *Psychological Review*, 111, 333-367.
- 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.
- Ratcliff, R., Perea, M., Colangelo, A., & Buchanan, L. (2004) A diffusion model account of normal and impaired readers. *Brain & Cognition*, 55, 374-382.
- Rouder, J.N., & Ratcliff, R. (2004). Comparing categorization models. *Journal of Experimental Psychology: General*, 133, 63-82.
- Wagenmakers, E-J., Ratcliff, R., Gomez, P. & Iverson, G.J. (2004). Assessing model mimicry using the parametric bootstrap. *Journal of Mathematical Psychology*, 48, 28-50.
- Ratcliff, R., Thapar, A., & McKoon, G. (2004). A diffusion model analysis of the effects of aging on recognition memory. *Journal of Memory and Language*, 50, 408-424.
- Ratcliff, R., Thapar, A., Gomez, P., & McKoon, G. (2004). A diffusion model analysis of the effects of aging in the lexical-decision task. *Psychology and Aging*, 19, 278-289.
- Smith, P.L., & Ratcliff, R. (2004). The psychology and neurobiology of simple decisions. *Trends in Neuroscience*, 27, 161-168.
- Smith, P.L., Ratcliff, R., & Wolfgang, B.J. (2004). Attention orienting and the time course of perceptual decisions: Response time distributions with masked and unmasked displays. *Vision Research*, 44, 1297-1320.
- Wagenmakers, E-J., Farrell, S., & Ratcliff, R. (2004). Naive nonparametric bootstrap model weights are biased. *Biometrics*, 60, 281-283.
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- Sales, M., Ratcliff, R., & Thompson, C.A. (submitted). Context dependent numerosity representations in children.
- Smith, P.L., & Ratcliff, R. (submitted). Modeling evidence accumulation in decision processes using integral equations: Urgency gating and collapsing boundaries.

### **Paper Presentations, Colloquia, etc.:**

- Mathematical Psychology Meetings, Purdue University, August, 1975.  
 Psychonomics Society Meetings, Denver, Colorado, November, 1975.  
 McMaster University, Hamilton, Ontario, November, 1975.  
 Applied Psychology Unit, Cambridge, Great Britain, July, 1975.  
 Mathematical Psychology Meetings, New York, August, 1976.  
 Annual Interdisciplinary Conference, Jackson Hole, Wyoming, January, 1977.  
 York University, Toronto, Ontario, May, 1977.  
 Mathematical Psychology Meetings, Los Angeles, California, August, 1977.  
 Psychonomics Society Meetings, Washington, D. C., November, 1977.  
 Psychophysics Group, Harvard University, Cambridge, Mass., January, 1978.  
 Bolt, Beranek, & Newman, Cambridge, Mass., March, 1978.  
 Mathematical Psychology Group, Rockefeller University, New York, May, 1978.  
 Conference on Visual Information Processing, Brown University, June, 1978.  
 Attention and Performance, Princeton, N. J., August, 1978.  
 Columbia University, New York, February, 1979.  
 Rutgers University, May, 1979.  
 University of Chicago, May, 1979.  
 Conference on Associative Memory and Parallel Computation, UCSD, La Jolla, California, June, 1979.  
 Psychonomics Society Meetings, Phoenix, 1979.  
 State University of New York at Binghamton, January, 1980.  
 University of Illinois at Champaign Urbana, February, 1980.  
 University of Delaware, May, 1980.  
 Trinity College, Hartford, Conn., November 1980.  
 National Conference on the Use of On-line Computers in Psychology, St. Louis, Mo., November, 1980.  
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 Harvard University, Dec. 1980.  
 University of Wisconsin, Madison, Feb. 1981.  
 Yale University, Feb. 1981.  
 Barnard College, Feb. 1981.  
 Psychonomics, Nov. 1981.  
 Conference on measuring on-line comprehension, Tucson, 1981.



University of Auckland, Jan. 1982.  
 Conference on discourse processing, France, June 1982.  
 Psychonomics, 1982.  
 Annual Interdisciplinary Conference, 1983.  
 Conference on neural models of memory, Tempe, Arizona, April, 1983.  
 Conference on models of memory, McMaster University (Hamilton, Ont.), June, 1983.  
 Mathematical Psychology meetings, Boulder, Colorado, Aug. 1983.  
 Psychonomics, 1983.  
 University of Pennsylvania, Feb. 1984.  
 Mathematical Psychology Meetings, Invited Symposium University of Chicago, Aug. 1984  
 Midwestern Psychological Association, Invited Symposium 1984  
 Sloan Applied Mathematics Workshop, Davidson College, North Carolina, 1984. Presented 3 day session on math modeling.  
 Psychonomic Society, November 1984  
 Annual Interdisciplinary Conference, January 1985  
 Midwestern Psychological Association, May, 1986 (invited paper)  
 Mathematical Psychology Meetings, San Diego, August, 1985  
 Psychonomics Society, Boston, November, 1985  
 Harvard University, Dec. 1985  
 Purdue University, Feb. 1986  
 Army Research Institute, Arlington VA, April 1986  
 Indiana University (Hoosier Mental Life conference), May 1986  
 Mathematical Psychology Meetings, Cambridge Mass., August, 1986  
 Psychonomics Society, New Orleans, November 1986  
 Annual Interdisciplinary Conference, January 1987  
 University of Minnesota, April 1987  
 Midwestern Psychological Association, May 1987 (invited paper).  
 University of Illinois (Hoosier Mental Life conference), May 1987  
 Cognitive Science Society Meeting, July 1987  
 Conference to Honor Endel Tulving, Toronto, July, 1987  
 University of Chicago, Oct, 1987  
 Society for Computers in Psychology, Nov. 1987  
 Psychonomic Society Meeting, Nov. 1987 (2 papers)  
 Harvard University Jan., 1988  
 Johns Hopkins University, April, 1988  
 New York University, April, 1988  
 NIAS, Wassenaar, Netherlands, Comprehension processes in reading, July, 1988  
 Mathematical Psychology Meetings, July, 1988 (2 papers and a symposium introduction).  
 International Congress of Psychology (invited symposium), Sydney, Australia, August, 1988.  
 University of Auckland, New Zealand, Sept., 1988.  
 University of Michigan, April, 1989  
 Harvard University, April, 1989.  
 Bolt Beranek, and Newman, April, 1989.  
 CUNY, May, 1989.  
 Invited Address, Mathematical Psychology Meetings, August, 1989.  
 Yale University, September, 1989.  
 Society for Computers in Psychology, Nov. 1989  
 Psychonomic Society Meeting, Nov. 1989  
 CUNY conference on sentence processing, NY, March, 1990  
 Conference in honor of B.B. Murdock, Jr., Toronto, June, 1990.  
 Psychonomic Society meeting, New Orleans, Nov, 1990 (2 papers).  
 Invited speaker, Otago conference on Cognition Dunedin, New Zealand, March, 1991.  
 Session organizer, one paper, International Congress of Psychology, Brussels, Belgium, July, 1992.  
 Applied Psychology Unit, Cambridge, Great Britain, Aug., 1992.  
 Johns Hopkins University, October, 1992.  
 Psychonomic Society meeting, St. Louis, Nov. 1992 (2 papers and a poster).  
 University of Illinois at Champaign Urbana, Dec, 1992.  
 Conference in Honor of Walter Kintsch, Boulder Colorado, June 1993  
 Applied Psychology Unit, Cambridge, Great Britain, Aug., 1993.  
 University of Minnesota, Sept., 1993.  
 Duke University, Nov, 1993  
 Plenary Speaker, Society for Computers in Psychology, Washington, DC, 1993.  
 Psychonomic Society Meeting, Washington DC, 1993  
 University of California, Irvine, April, 1994.  
 Mathematical Psychology Meeting, Seattle, Aug., 1994, Invited paper and submitted paper.  
 Psychonomic Society Meeting, St. Louis, Nov. 1994 (paper and poster).  
 Annual Interdisciplinary Conference, Jackson Hole, Wy, Jan., 1995

Washington University, St. Louis, Mo. Feb. 1995.  
 NATO sponsored Easter School in Computational Modeling. Kings College, Cambridge, UK, March, 1995 (one of 7 invited faculty).  
 Society of Experimental Psychologists, Brown University, March, 1995.  
 Workshop on Implicit Memory and Episodic Memory, Leiden, Netherlands, June, 1995 (one of five invited speakers).  
 Max Planck Institute for Psycholinguistics, July, 1995.  
 European Congress of Psychology, Athens, Greece, July 1995.  
 Applied Psychology Unit, Cambridge, Great Britain, Aug., 1995.  
 Psychonomic Society Meeting, Los Angeles, Nov., 1995, 2 papers.  
 Annual Interdisciplinary Conference, Jackson Hole, Wyoming, Jan., 1996.  
 Integrated Science Program, Northwestern University, Feb. 1996.  
 Hoosier Mental Life, Northwestern, May 1996, (organizer and speaker)  
 Mathematical Psychology Meeting, Chapel Hill North Carolina, July, 1996.  
 Psychonomic Society meeting, Chicago, Nov. 1995 (poster).  
 Roundtable on diffusion models of reaction time, Purdue, Dec, 1996.  
 Math department seminar, Northwestern University, Jan. 1997.  
 Indiana University, Bloomington, April, 1997.  
 1-week section leader at the 3-week NSF sponsored workshop on mathematical psychology, UC Irvine, July, 1997.  
 Invited address, Mathematical Psychology Meeting, Bloomington, Indiana, Aug. 1997.  
 Invited address, European Mathematical Psychology Meeting, Nijmegen, the Netherlands, Sept., 1997  
 Invited symposium, memory disorders research society, San Francisco, Nov. 1997  
 Psychonomic Society Meeting, St. Louis, Nov. 1997, 2 talks.  
 Invited symposium organizer, Australian Mathematical Psychology Society, Dec, 1997.  
 University of Auckland, Auckland, New Zealand, Dec, 1997  
 Annual Interdisciplinary Conference, Jackson Hole, Wy, Feb., 1998.  
 Mathematical Psychology Meeting, Nashville Tenn, Aug., 1998  
 Annual Interdisciplinary Conference, Jackson Hole, Wy, Feb., 1999.  
 University of Auckland, Auckland, New Zealand, March, 1999.  
 University of Arizona, Tucson, Az, April, 1999.  
 University of Leuven, Leuven, Belgium, May 1999.  
 University of Ghent, Ghent, Belgium, May 1999.  
 MRC-Cognition and Brain Science Unit, Cambridge, England, May, 1999.  
 Mathematical Psychology Meeting, Santa Cruz, Aug. 1999.  
 Neuroscience Meetings, Oct, 1999  
 Psychonomic Society meetings, Los Angeles, Nov, 1999, 2 papers and a poster.  
 Australian Mathematical Psychology meetings, Brisbane, Australia, Dec, 1999. Plenary Address and a paper.  
 Annual Interdisciplinary Conference, Jackson Hole, Wyoming, Jan., 2000.  
 International Congress of Psychology, Stockholm, Sweden, Aug. 2000.  
 Workshop on Mathematical Psychology, Northwestern University, Oct. 2000.  
 Annual Interdisciplinary Conference, Jackson Hole, Wyoming, Jan., 2001.  
 Brandeis University, Waltham, Mass. March, 2001.  
 ICOM 3 (memory conference) Valencia Spain, July 2001, 2 talks.  
 EPOS workshop on math models in psychology. 2 hour lecture (one of 3 lecturers, with John Anderson and Randy O'Reilly) and talk Amsterdam, Aug. 2001.  
 Mathematical Psychology Meeting, Providence RI. Aug. 2001  
 Ohio State University, Columbus, OH. Oct. 2001.  
 Australian Mathematical Psychology Meetings (Invited Address), Newcastle, NSW, Nov. 2001.  
 Australian Cognitive Science meeting (2 talks), Perth, Australia, April, 2002  
 Society of Experimental Psychologists, University of California, Berkeley, April, 2002.  
 Talk by Philip Smith in Australia (joint research) (April 2002)  
 Poster at Cognitive Aging, Atlanta, GA, April 2002.  
 Mathematical Psychology Meeting, Oxford, Ohio, July 2002.  
 European Mathematical Psychology Meeting, Bremen, Germany, August, 2002  
 Winer Lectures (mini-conference), Purdue, Indiana, Nov., 2002.  
 Psychonomic Society Meeting, Kansas City, Kansas, Nov., 2002.  
 Annual Interdisciplinary Conference, Jackson Hole, Wyoming, Jan., 2003.  
 European Mathematical Psychology Meeting, Madrid, Spain, Aug., 2003.  
 Australian Mathematical Psychology Meetings, Sydney, Nov., 2003.  
 University of Western Australia, Perth, Australia, Dec., 2003.  
 Melbourne University, Melbourne, Australia, Dec., 2003.  
 Brown University, Providence RI, Feb., 2004.  
 Cold Spring Harbor Computational Neuroscience of Decision Making workshop, April, 2004.  
 Model evaluation in the real world conference, Ohio State, organizer and speaker, June, 2004.  
 Gatsby institute, University of London, July, 2004.  
 Conference in honor of Patrick Rabbitt, Oxford University, Oxford, England, July, 2004.  
 Annual summer interdisciplinary conference, Calavese, Italy, July 2004.

Mathematical Psychology Meetings, University of Michigan, Ann Arbor MI, August, 2004, (talk and symposium organizer)  
 AMLAP conference, Aix-au-Provence, France, Sept, 2004.  
 Psychonomic Society Meeting, Minneapolis, Minnesota, Nov., 2004 (2 talks).  
 Jackson Hole Feb 2005  
 Valencia Spain April 2005  
 Berlin Germany April 2005  
 Florida SEP April 2005  
 Cold Spring invited workshop on decision making May 2005  
 Australian Math Psych Meeting, Dec. 2005  
 AFOSR Jan 2006  
 Jackson Hole Feb. 2006  
 Frieberg Germany Feb. 2006, conference on diffusion models  
 Columbia University March 2006  
 Mathematical Biosciences, Ohio State May, 2006  
 Mathematical Psychology Meetings, Vancouver, Canada, July, 2006  
 Cogfest, Ohio State May, 2006  
 Vanderbilt October 2006  
 Sixth Annual Summer Interdisciplinary Conference, Kalymnos, Greece. June 2007  
 Workshop (3 hrs.) on the diffusion model. Max Planck Institute, Berlin, Germany. June 2007).  
 Ernst Strungmann Forum, Frankfurt, Germany, June, 2007.  
 Max Planck Institute, Berlin, Germany, June 2007.  
 Mathematical Psychology 40th Annual Meeting, Costa Mesa, CA, July, 2007 (2 talks and 2 posters).  
 A Festschrift Conference in Honor of George Sperling, University of California, Irvine July 2007.  
 Neural Mechanisms of Stochastic Decision Making Workshop, Columbus, OH, Sept 2007 (3 talks)  
 Neural Coding, Computation, and Dynamics (NCCD), Hossegor, France, Sept 2007.  
 Annual Meeting of the Psychonomic Society, Long Beach, CA, Nov. 2007 (2 talks and 3 posters).  
 University of Auckland, Auckland, New Zealand, Dec., 2007.  
 The 13th Australasian Mathematical Psychology Conference Australian National University, Canberra Australia, Dec. 2007.  
 Context and Memory conference, Tampa, Florida, Jan. 2008 (2 talks).  
 Cognitive Science, Ohio State, Jan. 2008.  
 Annual Interdisciplinary Conference, Jackson Hole, Feb. 2008.  
 CELEST Science of Learning seminar, Boston University, April, 2008.  
 Systems Biology Workshop, MBI Ohio State, June, 2008 (talk, discussant, and coorganizer).  
 Seventh Annual Summer Interdisciplinary Conference, Maddonna Di Camplione, Italy, July, 2008.  
 Mathematical Psychology 41st Annual Meeting, Washington DC, July, 2008.  
 Annual Meeting of the Psychonomic Society, Chicago, IL, Nov. 2008 (poster).  
 Context and Memory conference, Palm Beach, Florida, January, 2009  
 Annual Interdisciplinary Conference, Jackson Hole, Feb. 2009  
 The 14th Australasian Mathematical Psychology Conference Australian National University, Newcastle Australia, Feb. 2009  
 MRC Brain and Cognition Research Unit, Cambridge England, April 2009  
 Gatsby Institute for Computational Neuroscience, London, England, April 2009.  
 Bristol University, England, April 2009.  
 Workshop on cognitive science, Beijing, China, May 2009.  
 University of Science and Technology, Hefei, China, May, 2009.  
 Zhejiang University of Technology, HangZhou, China, May 2009.  
 Workshop on components of cognition and fatigue, Spokane, Washington, June 2009.  
 Annual Summer Interdisciplinary Conference, Sarre, Italy, 2009  
 Mathematical Psychology 42nd Annual Meeting, Amsterdam, July, 2009 (3 talks)  
 Memory Disorders Research Society, Chapel Hill, North Carolina, Sept., 2009.  
 Annual Meeting of the Psychonomic Society, Boston, MA., Nov. 2009, poster.  
 Annual Interdisciplinary Conference, Jackson Hole, January 2010  
 Australasian Mathematical Psychology Conference, Margaret River, Western Australia, Feb 2010  
 Society for Mathematical Psychology 2010 Annual Meeting, Portland, OR, August 2010, 2 talks  
 Washington State University, Spokane, WA, August 2010  
 Society for Text and Discourse Conference, Chicago, IL, August 2010  
 Indiana University, Bloomington, IN, Sept 2010  
 Oppnet Meeting, Washington, DC, invited panel member and breakout session leader, Oct 2010  
 Stanford University, Stanford, CA, Oct 2010  
 51st Annual Meeting of the Psychonomics Society, St. Louis, MO, Nov 2010: 3 talks, 2 posters  
 Annual Interdisciplinary Conference, Jackson Hole, January 2011 (2 talks)  
 Australasian Mathematical Psychology Conference, Melbourne, Australia, February 2011  
 Invited lecture, Amsterdam, May 2011  
 Invited talk at lab meeting, Amsterdam, May 2011  
 Other talk, Amsterdam, May 2011  
 Modeling expert on a NCI panel on mild cognitive impairment in cancer treatment, May 2011  
 Annual Summer Interdisciplinary Conference, Caldes de Boi, Spain, July 2011

Basque Center on Cognition, Brain and Language, San Sebastian, Spain, July 2011 (2 talks)  
 Society for Mathematical Psychology 44th Annual Meeting, Boston, MA, July 2011  
 Annual Conference on Neuroeconomics: Decision Making and the Brain, Evanston, IL, Oct 2011  
 52nd Annual Meeting of the Psychonomics Society, Seattle, WA, Nov 2011  
 Workshop (Academy Colloquium) on "New Insights from Model-Based Cognitive Sciences", Royal Netherlands Academy of Arts and Sciences, Amsterdam, May 2011  
 3 hour masterclass as part of the Academy Colloquium, Amsterdam, May 2011  
 Ohio State Psychology Department Quantitative Brown Bag, Jan 2012  
 Annual Interdisciplinary Conference, Breckenridge, January 2012  
 Cognition, Decision & Computation Intelligence Program Review, AFOSR, Washington, DC, Jan 2012  
 Australasian Mathematical Psychology Conference, Adelaide, Feb 2012  
 California Institute of Technology, March 2012, invited talk  
 Workshop on reinforcement learning, McGill Bellairs Institute, Barbados, April 2012. Three hour workshop on diffusion modeling.  
 Festschrift for Richard Shiffrin, Indiana University, May 2012, invited talk  
 University of Amsterdam, May 2012, 2 invited lectures  
 Annual Summer Interdisciplinary Conference, Sardinia, Italy, June 2012  
 Society for Mathematical Psychology 45th Annual Meeting, Columbus, OH, July 2012, invited address + talk  
 53rd Annual Meeting of the Psychonomics Society, Minneapolis, MN, Nov 2012, talk + poster  
 Ohio State Psychology Department, Oct 2012, 3 hour diffusion model presentation  
 Model based neuroscience workshop, Ohio State University, Nov 2012  
 Annual Interdisciplinary Conference, Jackson, WY, Jan 2013, talk  
 Australian Mathematical Psychology Conference, Sydney, Feb 2013, talk  
 Columbia University, New York, Mar 13, invited talk  
 University of Amsterdam, May 2013, 2 invited lectures.  
 Annual Summer Interdisciplinary Conference, Cortina d'Ampezzo, Italy, July 2013, talk  
 Max Planck Institute, Berlin, Germany, Aug 2013, invited 3 hour workshop.  
 Max Planck Institute, Berlin, Germany, Aug 2013, invited talk  
 46th Annual Meeting of the Society for Mathematical Psychology, Potsdam, Germany, Aug 2013, talk  
 Psychonomic Society Annual Meeting, Toronto, Canada, Nov 2013, two talks and one poster  
 Irvine Workshop on Interfacing Models with Brain Signals to Investigate Cognition, Irvine, CA, Nov 2013, invited talk  
 Air Force Office of Scientific Research, Washington, DC, Dec 2013, invited talk  
 Annual Interdisciplinary Conference, Jackson, WY, Jan 2014, talk  
 Australian Mathematical Psychology Conference, Canberra, Australia, Feb 2014, talk  
 American Educational Research Association Annual Meeting, Philadelphia, PA, Apr 2014, talk  
 University of Amsterdam, Netherlands, May 2014, 2 invited talks  
 Cognitive Science Society Workshop on Sequential Sampling Models for Cognitive and Perceptual Decision Making, Quebec City, CA, July 2014, invited talk  
 Central China Normal University, Wuhan, China, Oct 2014, invited talk  
 Asia-Pacific Conference on Computational Behavioral Science, Seoul, Korea, Oct 2014, invited talk  
 Psychonomics Society 55th Annual Meeting, Long Beach, CA, Nov 2014, talk  
 Annual Interdisciplinary Conference, Jackson Hole, WY, Feb 2015, talk  
 Australasian Mathematical Psychology Conference, Newcastle, Australia, Feb 2015, talk  
 48th Annual Meeting of the Society for Mathematical Psychology, Newport Beach, CA, July 2015, 2 talks  
 14th Annual Summer Interdisciplinary Conference, Mammoth Lakes, CA, July 2015, talk  
 Psychonomics Society 56th Annual Meeting, Chicago, IL, Nov 2015, talk & poster  
 Psychonomics Society 56th Annual Meeting, Chicago, IL, Nov 2016, talk & poster  
 Australian Mathematical Psychology Conference, Tasmania, Australia, Feb 2016, talk  
 Shansby Marketing Seminar Series, University of California, Berkeley, Mar 2016, invited talk  
 International Meeting of the Psychonomics Society, Grenada, Spain, May 2016, talk  
 Workshop on Sequential Sampling Models of Decision Making, Emmetten, Switzerland, May 2016, 2 invited talks  
 COGITO Conference, Berlin, Germany, Oct 2016, invited talk  
 Psychonomics Society 57th Annual Meeting, Boston, MA, Nov 2016, talk & 2 posters  
 Mini AIC conference, Jackson Hole, Wyoming, 2017, 2 talks.  
 Australasian Mathematical Psychology Conference 2017, Brisbane, Australia, Feb. 2017, talk  
 50th Annual Meeting of the Society for Mathematical Psychology, Warwick, United Kingdom, July 2017, talk  
 16th Annual Summer Interdisciplinary Conference, Interlaken, Switzerland, July 2017, talk  
 43rd Annual Interdisciplinary Conference, Jackson Hole, WY, Feb. 2018, talk  
 University of Melbourne, Australia, Feb 2018, talk  
 Australasian Mathematical Psychology Conference 2018, Perth, Australia, Feb. 2018, talk  
 University of Amsterdam, Netherlands, May 2018, talk  
 International Meeting of the Psychonomic Society, Amsterdam, May 2018, talk  
 17th Annual Summer Interdisciplinary Conference, Loano, Italy, Jun 2018, talk  
 51st Annual Meeting of the Society for Mathematical Psychology, University of Wisconsin, Madison, Jul 2018, talk & 2 posters  
 59th Annual Meeting of the Psychonomic Society, New Orleans, LA, Nov 2018, talk  
 Australasian Mathematical Psychology Conference, Melbourne, Australia, Feb. 2019, talk  
 Behavioral and Brain Sciences Colloquium, Washington University in St. Louis, Mar 2019, talk

18th Annual Summer Interdisciplinary Conference, Seefeld, Austria, Jun 2019, talk  
 52nd Annual Meeting of the Society for Mathematical Psychology, Montreal, Canada, July 2019, talk  
 Australasian Mathematical Psychology Conference, Coogee Beach, Australia, Feb. 2020, talk  
 University of Melbourne, School of Psychological Sciences, Melbourne, Australia, Feb. 2020, talk

### 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

Graduate seminar on decision making

### OSU Service

Psychobiology Search Committee, 2003-2004.

Workstation Cluster Proposal, PI.

Chair, Cognitive Search Committee.

Member, Cognitive and Experimental Search Committees, Mansfield and Lima.

Departmental Computer Committee, 2003-2008.

Equipment Committee, 2008.

Head, Dept. Admissions Committee, 2008-2010.

Co-organizer, Systems Biology Workshop, 2008.

Department website updating, 2008.

Member, Integrative Neuroscience Search Committee, 2008-2010.

Cognitive area web site update, 2011.

Organizer, Model based neuroscience workshop. Ohio State 2012.

Decision Sciences Search Committee, 2012-2014.

Graduate Studies and Stipends Committee, 2011-2014.

Faculty Mentoring, 2012-2014.

Data analytics search committee, 2015.

Mathematical Biosciences Local Scientific Advisory Committee and Colloquium committee, 2013-2015.

Chronic Brain Injury Discovery Themes Executive Committee, 2015-2018.

Technical Support Committee (chair), 2017-2021.

MBI Advisory Committee, 2018-2019

Awards Committee, 2019-2021

President and Provost's Advisory Committee, 2020-