

CURRICULUM VITAE

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JEROME R. BUSEMEYER

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PERSONAL

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EDUCATION

1973 University of Cincinnati, B.A., cum laude
1976 University of South Carolina, M.A., Psychology
1979 University of South Carolina, Ph.D., Psychology
1980 University of Illinois, Post Doctoral Fellow,
Quantitative Methods

RESEARCH SPECIALIZATION

Quantitative Methods and Mathematical Modeling
Judgment and Decision Making
Concept Learning

PROFESSIONAL EXPERIENCE

- 1973-1976 Research and Teaching Assistant
Department of Psychology
University of South Carolina
Columbia, S. C. 29208
- 1976-1979 Research Consultant (Full Time)
Design, Statistics, Computer Programming
Social & Behavioral Sciences Lab
University of South Carolina
Columbia, S. C. 29208
- 1979-1980 Visiting Assistant Professor
Department of Psychology
University of South Carolina
Columbia, S. C. 29208
- 1980-1981 Post Doctoral Fellow
Measurement Training Program
Department of Psychology
University of Illinois
Champaign, IL 61820
- 1981-1983 Assistant Professor of Psychology
Indiana University-Purdue University
Department of Psychology
Indianapolis, Indiana 46223
- 1982-1983 Research Consultant
Mathematical models of consumer behavior
The Procter and Gamble Co.
Cincinnati, Ohio 45224
- 1983-1988 Assistant Professor of Psychology
Department of Psychological Sciences
Purdue University
- 1988-1993 Associate Professor of Psychology
Department of Psychological Sciences
Purdue University
West Lafayette, IN 47907

- 1994-1997 Full Professor of Psychology
Department of Psychological Sciences
Purdue University
West Lafayette, IN 47907
- 1997-present Full Professor of Psychology
Department of Psychological and Brain Sciences
Cognitive Science Program
Indiana University
Bloomington, Indiana, 47405
- 2005-2007 Manager, Cognition and Decision Program
Air Force Office of Scientific Research
875 N. Randolph
Arlington VA 22203
- 2006-present Adjunct Professor
Department of Statistics
Indiana University
Bloomington, Indiana, 47405

TEACHING EXPERIENCE

Undergraduate
Introductory Statistics
Problem Solving and Decision Making

Graduate
Quantitative Methods in Psychology
Experimental Design in Psychology
Time Series and Signal Processing
Multivariate Analysis
Choice Models

PROFESSIONAL AFFILIATIONS

Member of the Society for Mathematical Psychology
Past Member of the Psychometric Society
Member of the Psychonomic Society
Past Member of the Sigma Xi Society
Member of the Judgment and Decision Making Society
Member of the Cognitive Neuroscience Society
Member of the Cognitive Science Society

EDITORIAL and REVIEW WORK

Editor in Chief: *Journal of Mathematical Psychology* (January, 2005 - present)

Member of Editorial Boards for

Journal of Experimental Psychology: LMC (1986-2002)

Journal of Mathematical Psychology (1990-present)

Psychological Bulletin (1996-1998)

Psychonomic Bulletin and Review (1994, 2002-2006)

Psychological Review (1999-present)

Psychological Science (2006-present)

Member of National Review Panels

NIMH Perception and Cognition (1992-1998)

NRC Human Behavioral Models (1996-1997)

NSF Learning and Intelligent Systems (1997)

NSF Methodology, Measurement, Statistics (1999-2000)

ACADEMIC AWARDS

1980 NIMH Post Doctoral Fellow, NIMH Grant MHI 425 706.

1993 President of the Society for Mathematical Psychology

1996 Institute for Advanced Research, Indiana University, \$4,500.

1996 James McKeen Cattell Award \$24,000

1998 Invitation to Hans Institute Fellowship for Advanced Study, Germany

2000 Distinguished Graduate Alumnus Award, University of S.Carolina

2002 Jack Hilgard Lecture at Stanford University

2006 Fellow of the Society of Experimental Psychologists

FEDERAL GRANT SUPPORT

- 1987- NSF (Memory and Cognition, PI),
1989 Grant No. BNS-8710103. \$67,810.
- 1990- NIMH (Cognition and Perception, PI).
1993 Grant No. 1 R01 MH47126-01. \$209,578
- 1996- NIMH, (Cognition and Perception, PI)
1999 R01 MH55680-1, \$305,420
- 1996- NSF (Decision and Management Science, PI)
1998 SBR-9602102, \$102,626
- 2001- NSF (Biocomplexity Initiative, Co-PI), MMS
2006 \$2,749,232 (Co-PI)
- 2001- NIDA R01 DA 14119 \$800,027 (Co-PI)
2005
- 2002- NSF SES Major Research Instrumentation (Co-PI)
2008 \$847,874
- 2004- NIMH Perception and Cognition (MH068346, PI)
2008 \$600,000
- 2005- NIDA R01 DA 14119 \$1,204,000 (PI)
2009
- 2009- NSF SES-0753164 and SES-0753168 \$450,000 (PI)
2011

BOOKS

- Busemeyer, J. R., Hastie, R., & Medin, D. L. (1995). *Decision Making from a Cognitive Perspective. Psychology of Learning and Motivation (Vol. 32)*. NY: Academic Press.
- Busemeyer, J. R. & Diederich, A. (2009) *Cognitive modeling*. Sage.

PUBLICATIONS

- Busemeyer, J. R., & Laughlin, J. E. (1979). Coding subjects for analyzing unbalanced repeated measures designs. *Proceedings from the SAS International Conference*, 190-191.
- Furchgott, E., & Busemeyer, J. R. (1979). Heart rate and skin conductance during cognitive processing as a function of age. *Journal of Gerontology*, 34, 183-190.
- Scovern, R. W., Bukstel, L. H., Kilman, P. R., Laval, R. A., Busemeyer, J. R., & Smith, V. (1980). The effects of parent counseling on the family system. *Journal of Counseling*, 27, 268-275.
- Busemeyer, J. R. (1980). The importance of measurement theory, error theory, and experimental design for testing the significance of interactions. *Psychological Bulletin*, 88, 237-244.
- Furchgott, E., & Busemeyer, J. R. (1981). Age preferences for helping professionals. *Journal of Gerontology*, 36, 90-92.
- Kanfer, F. H., & Busemeyer, J. R. (1982). The use of problem solving and decision making in behavior therapy. *Clinical Psychology Review*, 2, 239-266.
- Kanfer, F. H., & Busemeyer, J. R. (1982). Problem lo"sen und entscheidungs findung in der verhaltens therapie. *Verhaltensmodifikation*, 3, 140-156. (Translation of Kanfer & Busemeyer,1982).
- Busemeyer, J. R. (1982). Choice behavior in a sequential decision making task. *Organizational Behavior and Human Performance*, 29, 175-207.
- Busemeyer, J. R., & Jones, L. E. (1983). The analysis of multiplicative combination rules when the causal variables are measured with error. *Psychological Bulletin*, 93, 549-562.
- Busemeyer, J. R., Dewey, G. I., & Medin, D. L. (1984). Evaluation of exemplar-based generalization and the abstraction of categorical information. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 10, 638-648.
- Busemeyer, J. R. (1985). Decision making under uncertainty: Simple scalability, fixed sample, and sequential sampling models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 11, 538-564.
- Busemeyer, J. R. (1985) . A sequential sampling model with criterion boundaries that vary across samples. In G. d'Ydewalle (Ed.), *Cognition, Information Processing, and Motivation, Volume 3. Proceedings from the Twenty Third International Congress of Psychology* (pp. 149-166). Amsterdam:

North Holland.

Busemeyer, J. R., Swenson, K., & Lazarte, A. (1986). An adaptive approach to resource allocation. *Organizational Behavior and Human Decision Processes*, 38, 318-341.

Busemeyer, J. R., & Myung, I. J. (1987). Resource allocation decision making in an uncertain environment. *Acta Psychologica*, 66, 1-19.

Busemeyer, J. R., Forsyth, B., & Nozawa, G. (1988). The use of choice response time to distinguish between elaborated versions of the elimination by aspects and suppression of aspects choice models, *Journal of Mathematical Psychology*, 32, 341-349.

Busemeyer, J. R., & Myung, I. J. (1988). A new method for investigating prototype learning. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 14, 3-11.

Busemeyer, J. R., & Rapoport, A. (1988). Psychological models of deferred decision making. *Journal of Mathematical Psychology*, 32, 1-44.

Myung, I. J., & Busemeyer, J. R. (1989). A state-space model for prototype learning. *Proceedings of the Eleventh Annual Conference of the Cognitive Science Society* (pp. 50-58). Ann Arbor, Michigan. Hillsdale, N.J.: Erlbaum.

Myung, I. J., & Busemeyer, J. R. (1989). Criterion learning in a deferred decision making task. *American Journal of Psychology*, 102, 1-16.

Busemeyer, J. R., & Myung, I. J. (1989). An adaptive theory of human decision making. In D. Vickers, & P. L. Smith (Eds.), *Human Information Processing: Measures, mechanisms, and models*. Elsevier Science Publishers B. U. (North Holland).

Townsend, J. T., & Busemeyer, J. R. (1989). Approach-Avoidance: Return to dynamic decision behavior. In C. Izawa (Ed.), *Current Issues in Cognitive Processes: The Tulane Flowerree Symposium on Cognition* (pp. 107-133). Hillsdale, N.J.: Erlbaum.

Busemeyer, J. R. (1991). Intuitive Statistical Estimation. In N. H. Anderson (Ed.), *Contributions to Information Integration Theory: Vol. 1. Cognition* (pp. 187-215). Hillsdale, N.J.: Erlbaum.

Stevenson, M. K., Busemeyer, J. R., & Naylor, J. C. (1991). Judgment and decision making theory. In M. Dunnette (Ed.), *Handbook of Industrial and Organizational Psychology: Vol. 1* (2nd Ed., pp 283-374). Palo Alto, CA: Consulting Psychologists Press.

Weber, E. V., Goldstein, W. M., & Busemeyer, J. R. (1991). Beyond strategies: Implications of memory representation and memory processes for models of judgment and decision making. In S. Lewandowsky and W. E. Hockley (Eds.), *Relating theory and data: Essays on human memory in honor of Bennet B. Murdock* (pp 75-100). Hillsdale, N.J.: Erlbaum.

Myung, I. J., & Busemeyer, J. R. (1992). Measurement free tests of a general state-space model of prototype learning. *Journal of Mathematical Psychology*, *36*, 32-67.

Busemeyer, J. R., & Goldstein, W. M. (1992). Linking together different measures of preference: A dynamic model of matching derived from decision field theory. *Organizational Behavior and Human Decision Processes*, *52*, 370-396.

Goldstein, W. M., & Busemeyer, J. R. (1992). The effect of "irrelevant" variables on decision making: Criterion shifts in preferential choice? *Organizational Behavior and Human Decision Processes*, *52*, 425-454.

Busemeyer, J. R., & Townsend, J. T. (1992). Fundamental derivations from decision field theory. *Mathematical Social Sciences*, *23*, 255-282.

Busemeyer, J. R., & Myung, I. J. (1992). An adaptive approach to human decision making: Learning theory, decision theory, and human performance. *Journal of Experimental Psychology:General*, *121*, 177-194.

Busemeyer, J. R. (1993). Violations of the speed-accuracy trade-off relation: Decreases in accuracy with increases in decision time. In O. Svenson & A. J. Maule (Eds.), *Time pressure and stress in judgment and decision making*. N.Y.: Plenum.

Busemeyer, J. R., Myung, I. J., & McDaniel, M. A. (1993). Cue competition effects: Empirical tests of adaptive network learning models. *Psychological Science*, *4*, 190-195.

Busemeyer, J. R., Myung, I. J., & McDaniel, M. A. (1993). Cue competition effects: Theoretical implications for adaptive network learning models. *Psychological Science*, *4*, 196-202.

Busemeyer, J., & Townsend, J. T. (1993). Decision Field Theory: A dynamic cognitive approach to decision making. *Psychological Review*, *100*, 432-459.

Choi, S., McDaniel, M. A., & Busemeyer, J. R. (1993). Evaluation of adaptive network models of conceptual rule learning. *Memory and Cognition*, *21*, 413-423.

Townsend, J. T., & Busemeyer, J. R. (1995). Dynamic Representation of Decision Making. In

R. Port & T. van. Gelders (Eds.), *Mind As Motion: Explorations in the dynamics of cognition* (pp. 101-120). Cambridge, MA: MIT Press.

Busemeyer, J. R., McDaniel, M. A., & Byun, E. (1996). The use of intervening variables in causal learning. In Shanks, D. R., Holyoak, K. J., & Medin, D. L. (Eds.) *Psychology of Learning and Motivation Vol. 34, Causal Learning*, San Diego: Academic Press. Pp 358-389.

Busemeyer, J. R., McDaniel, M. A., & Byun E. (1997) The abstraction of intervening variables from experience with multiple-input multiple-output causal environments. *Cognitive Psychology*, 32, 1-48.

Delosh, E., Busemeyer, J. R., & McDaniel, M. A. (1997). Extrapolation: The sine qua non of abstraction. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 23, 1-19.

Busemeyer, J. R., Byun, E., Delosh, E. & McDaniel, M. A. (1997). Learning functional relations based on experience with input-output pairs by humans and artificial neural networks. In K. Lamberts & D. R. Shanks (Eds.), *Knowledge, Concepts, and Categories*. Volume in the "Studies in Cognition Series" Psychology Press. Pp. 405-435.

Busemeyer, J. R. & Shiffrin, R. M. (1998) Memory and Human Learning. In Pew, R. W. & Mavor, A. S. (Eds.) *Modeling Human and Organizational Behavior*. National Academy of Sciences Press. (Pp. 129-149).

Busemeyer, J. R. & Connoly, T. (1998) Human Decision Making. In Pew, R. W. & Mavor, A. S. (Eds.) *Modeling Human and Organizational Behavior*. National Academy of Sciences Press. (Pp. 129-149).

Dror, I., Busemeyer, J. R., & Basola, B. (1999) Decision making under time pressure: An independent test of sequential sampling models. *Memory & Cognition*, 27, 713-725.

Barkan, R., Busemeyer, J. R. (1999) Changing plans: Dynamic inconsistency and the effect of experience on the reference point. *Psychonomic Bulletin and Review*, 6, 547-555.

Diederich, A., & Busemeyer, J. R. (1999) Conflict and the stochastic dominance principle of decision-making. *Psychological Science*, 10, 353-359.

Busemeyer, J. R., & Wang, Y. I. (2000) Model comparisons and model selections based on generalization criterion methodology. *Journal of Mathematical Psychology*, 44, 171-189.

Busemeyer, J. R., Weg, E., Barkan, R., Li, X., & Ma, Z. (2000) Dynamic and consequential

consistency of choices between paths of decision trees. *Journal of Experimental Psychology: General*, 129, 530-545.

Roe, R. M., Busemeyer, J. R. & Townsend, J. T. (2001) Multi-alternative decision field theory: A dynamic artificial neural network model of decision-making. *Psychological Review*, 108, 370-392.

Johnson, J. G. & Busemeyer, J. R. (2001) Multiple stage decision making; The effect of planning horizon on dynamic consistency. *Theory and Decision*, 51, 217-246.

Busemeyer, J. R. (2002) Dynamic Decision Making. *International Encyclopedia of the Social and Behavioral Sciences*, Smelser, N. J. & Baltes, P. B. (Eds.) Oxford: Elsevier Press V9l. 6. 3903-3908.

Busemeyer, J. R. (2002) Dynamic Systems. In Nadel, L. (Ed.) *Encyclopedia of Cognitive Science*, Nature. Vol. 1, 1039-1049.

Busemeyer, J. R. & Stout, J. C. (2002) A contribution of Cognitive Decision Models to Clinical Assessment: Decomposing performance on the Bechara Gambling Task. *Psychological Assessment* 14, 253-262.

Busemeyer, J. R. & Diederich, A. (2002) Survey of decision field theory. *Mathematical Social Sciences*, 43, 345-370.

Busemeyer, J. R., Townsend, J. T., & Stout, J. C. (2002) Motivational Underpinnings of Utility in Decision Making: Decision Field Theory Analysis of Deprivation and Satiation. In S. Moore & M. Oaksford, (Eds.) *Emotional Cognition*. Amsterdam: John Benjamins. (Pp. 197-220).

Barkan, R. & Busemeyer, J. R. (2003) Modeling dynamic inconsistency with a changing reference point. *Journal of Behavioral Decision Making*, 16, 235-255.

Diederich, A. & Busemeyer, J. R. (2003) Simple matrix methods for analyzing diffusion models of choice probability, choice response time, and simple response time. *Journal of Mathematical Psychology*, 47, 304-322.

Rieskamp, J., Busemeyer, J. R., Laine, T. (2003) How do people learn to allocate resources? Comparing Two Learning Theories. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 29, 1066-1081.

Johnson, J. G., & Busemeyer, J. R. (2004) Rule Based Decision Field Theory: A dynamic computational model of transitions among decision making strategies. In T. Betsch (Ed.) *The routines of*

decision making. Erlbaum. 3-20.

Busemeyer, J. R. & Johnson, J. G. (2004) Computational models of decision making. D. Koehler & N. Harvey (Eds.) *Handbook of Judgment and Decision Making*, Oxford: UK: Blackwell Publishing Co. Ch. 7, Pp 133-154.

Stout, J. C., Busemeyer, J. R., Lin, A., Grant, S. R., & Bonson, K. R. (2004) Cognitive Modeling Analysis of the Decision-Making Processes Used by Cocaine Abusers. *Psychonomic Bulletin and Review*, 11(4), 742-747.

Stout, J., Rock, S., Campbell, M., Busemeyer, J. R., & Finn, P. (2004) Psychological processes underlying risky decisions in drug abusers. *Psychology of Addictive Behaviors*, 11 (4) 742-747.

Lane T. & Busemeyer, J. (2004). Comparing agent based models of land use. In *Proceedings of 6th International Conference on Cognitive Modeling* (pp. 142-147).

McDaniel, M. A. & Busemeyer, J. R. (2005) The conceptual basis of function learning and extrapolation: Comparison of rule and associative based models. *Psychonomic Bulletin and Review*, 12 (1), 24-42.

Busemeyer, J. R., Townsend, J. T., Diederich, A., & Barkan, R. (2005) Contrast effects or Loss Aversion? Comment on M. Usher and J. L. McClelland's (2004) 'Loss aversion and inhibition in dynamical models of multi-alternative choice' *Psychological Review*, 112(1), 253-255.

Woods, S., Busemeyer, J. R., & Kolling, A. (2005) Older Adults as Adaptive Decision-makers: Evidence from the Gambling Task. *Psychology and Aging*. 20 (2), 220-225.

Yechiam, E., Stout, J. C., Busemeyer, J. R., Rock, S. L., & Finn, P. R. (2005). Individual differences in the response to forgone payoffs: An examination of high functioning drug abusers. *Journal of Behavioral Decision Making*. 18(2), 97-110.

Yehiam, E., & Busemeyer, J. R. (2005) Comparison of basic assumptions embedded in learning models for experienced based decision making. *Psychonomic Bulletin and Review*, 12 (3), 387-402.

Barkan, R., Bashat, G. B., & Busemeyer, J. R. (2005) Framing reference points: The effect of integration and segregation on dynamic consistency. *Journal of Behavioral Decision Making*, 18 (3), 213-226.

Yehiam, E., & Busemeyer, J. R., Stout, J. C., & Bechara, A. (2005) Using cognitive models to map relations between neuropsychological disorders and human decision making deficits.

Psychological Science, 16 (12), 973-978.

Johnson, J. G. & Busemeyer, J. R. (2005) A dynamic, stochastic, computational model of preference reversal phenomena. *Psychological Review*, 112 (4), 841-861.

Yechiam, E. & Busemeyer, J. R. (2006) The effect of foregone payoffs on underweighting small probability payoffs. *Journal of Behavioral Decision Making*, 19, 1-16.

Lane, S., Yechiam, E., & Busemeyer, J. R. (2006) Application of a computational decision model to examine acute drug effects on human risk taking. *Experimental and Clinical Psychopharmacology*, 14, 2, 254-264.

Busemeyer, J. R., Wang, Z., & Townsend, J. T. (2006) Quantum dynamics of human decision making. *Journal of Mathematical Psychology*, 50(3), 220-241.

Diederich, A. & Busemeyer, J. R. (2006) Modeling the effects of payoffs on response bias in a perceptual discrimination task: Threshold bound, drift rate change, or two stage processing hypothesis. *Perception and Psychophysics*, 97 (1), 51-72.

Rieskamp, J., Busemeyer, J. R., & Mellers, B. A. (2006) Extending the bounds of rationality: Evidence and theories of preferential choice. *Journal of Economic Literature*, 44, 631-661.

Yechiam, E., Goodnight, J., Bates, J. E., Busemeyer, J. R., Dodge, K. A., Pettit, G. S., Newman, J. P. (2006) A formal cognitive model of the Go/No Go discrimination task: Evaluation and implications. *Psychological Assessment*, 18, 239-249.

Busemeyer, J. R., Jessup, R. K., Johnson, J. G., & Townsend, J. T. (2006) Building bridges between neural models and complex decision making behavior. *Neural Networks*, 19, 1047-1058.

Busemeyer, J. R., Johnson, J. G., & Jessup, R. K. (2006) Preferences Constructed from Dynamic Micro-Processing Mechanisms. In S. Lichtenstein & P. Slovic (Eds.) *The construction of preferences*. NY: Cambridge University Press. (pp. 220-234).

Wang, Z., Busemeyer, J. R., & Lang, A. (2006) Grazing or staying tuned: A stochastic dynamic model of channel changing behavior. *Proceedings of the Cognitive Science Society*.

Busemeyer, J. R., Matthews, M., & Wang, Z. (2006) A Quantum Information Processing Explanation of Disjunction Effects. In R. Sun & N. Myake (Eds.) *The 29th Annual Conference of the Cognitive Science Society and the 5th International Conference of Cognitive Science* (Pp. 131-135)

Mahwah, NJ. Erlbaum.

Busemeyer, J. R., Barkan, R., Mehta, S.; & Chattervedi, A. (2007) Context models and models of preferential choice: Implications for Consumer Behavior. *Marketing Theory*, 7 (1), 39-58.

Yechiam, E., Veinott, E. S., Busemeyer, J. R., & Stout, J. C. (2007) Cognitive models for evaluating basic decision processes in clinical populations. In R.W J. Neufeld (Ed.) *Advances in Clinical Cognitive Science: Formal modeling of processes and symptoms*. (Ch. 3, Pp. 81-112). Washington, D.C.: American Psychological Association.

Busemeyer, J. R., Dimperio, E., & Jessup, R. K. (2007) Integrating emotional processes into decision making models. In W. Gray (Ed.) *Integrated models of cognitive systems*. (pp. 213-229). New York: Oxford University Press.

Busemeyer, J. R., & Wang, Z. (2007) Quantum information processing explanation for interactions between inferences and decisions. In P. D. Bruza, W. Lawless, K. van Rijsbergen, & D. A. Sofge (Eds.) *Quantum interaction, AAAI Spring Symposium, Technical Report, SS-07-08*, AAAI Press, Menlo Park, CA. (pp. 91-97).

Pleskac, T. & Busemeyer, J. R. (2007) A Dynamic and Stochastic Theory of Choice, Response Time, and Confidence. *Proceedings of the Cognitive Science Society*.

Yechiam, E. & Busemeyer, J. R. (2008) Evaluating generalizability and parameter consistency in learning models. *Games and Economic Behavior*, 63, 370-394.

Busemeyer, J. R. & Johnson, J. G. (2008) Micro-process models of decision making. In R. Sun (Editor) *Cambridge Handbook of Computational Psychology*. NY: Cambridge University Press. (Pp. 302-321).

Yechiam, E., Kanz, J. E., Stout, J. C., Busemeyer, J. R., Paulsen, J. S., Bechara, A. (2008) Neuro-cognitive deficits related to poor decision-making in people behind bars: A peek inside their brains. *Psychonomic Bulletin and Review*, 15, 44-51.

Kelley, H. E., & Busemeyer, J. R. (2008) A comparison of models for learning how to dynamically integrate multiple cues in order to forecast continuous criteria. *Journal of Mathematical Psychology*. 52 (4), 218-240.

McDaniel, M. A., Griego, J., Dimperio, E., & Busemeyer, J. R. (2009) Predicting Extrapolation Performance: A Comparison of Competing Associative Function Learning Models. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 35 (1), 173-195.

Ahn, W. Y., Busemeyer, J. R., Wagenmakers, E. J., & Stout, J. C. (2008) Comparison of decision learning models using the generalization criterion method. *Cognitive Science*, 32, 1376-1402.

Jessup, R. K., Bishara, A. , & Busemeyer, J. R. (2008) Feedback Produces Divergence from Prospect Theory in Descriptive Choice. *Psychological Science*, 19 (10), 1015-1022.

Busemeyer, J. R., Santuy, E., Lambert-Mogiliansky, A. (2008) Comparison of Markov and quantum models of decision making. In P. Bruza, W. Lawless, K. van Rijsbergen, D. A. Sofge, B. Coeke, S. Clark (Eds.) *Quantum interaction: Proceedings of the Second Quantum Interaction Symposium*. London: College Publications. (68-74).

Bishara, A., Kruschke, J. K., Stout, J. C., Bechara, A., McCabe, D. P., & Busemeyer, J. R. (in press) Sequential learning models for the Wisconsin Card Sort Task: Assessing processes in substance dependent individuals. *Journal of Mathematical Psychology*.

Busemeyer, J. R., Jessup, R. K., & Dimperio, E. (2008) The dynamic interactions between situations and decisions. In P. Robbins & M. Aydede (Eds.) *Cambridge Handbook of Situated Cognition*. (Pp. 307-321). Cambridge University Press.

Busemeyer, J. R. & Pleskac, T. (2009) Theoretical tools for understanding and aiding dynamic decision making. *Journal of Mathematical Psychology*, 53, 126-138.

Bishara, A. J., Pleskac, T. J., Fridberg, D. J., Yechiam, E., Lucas, J., Busemeyer, J. R., Finn, P. R., & Stout, J. C. (in press). Similar processes despite divergent behavior in two commonly used measures of risky decision-making. *Journal of Behavioral Decision Making*.

Jessup, R. K., Veinott, E. S., Todd, P. M., and Busemeyer, J. R. (2009) Leaving the store empty-handed: Testing explanations for the Too-Much-Choice-Effect using decision field theory. *Psychology and Marketing*, 26 (3), 299-320.

Pothos, E. M. & Busemeyer, J. R. (2009) A quantum probability model explanation for violations of 'rational' decision theory. *Proceedings of the Royal Society, B*, 276 (1665), 2171-2178.

Busemeyer, J. R., Wang, Z., & Lampert-Mogiliansky, A. (in press) Comparison of Markov and quantum models of decision making. *Journal of Mathematical Psychology*.

Busemeyer, J. R. & Trueblood, J. (2009) Comparison of quantum and Bayesian models of inference. In P. Bruza, D. Sofge, W. Lawless, K. van Rijsbergen, & M. Klusch (Eds) *Quantum Interaction*. Springer. (Pp. 29-43).

MANUSCRIPTS UNDER REVIEW

Johnson, J.G. & Busemeyer, J. R. (2007) A computational model of the attention processes used to generate decision weights in risky decision making. Submitted to *Cognition*.

Fridberg, D. J., Queller, S., Ahn, W. Y., Bishara, B. J., Yechiam, E., Busemeyer, J. R., Porrino, L., and Stout, J. C. (2008) Cognitive Mechanisms Underlying Risky Decision-Making in Chronic Cannabis Users. Under revision for *Journal of Mathematical Psychology*.

Pleskac, T. J. & Busemeyer, J. R. (submitted). Two Stage Dynamic Signal Detection Theory: A Dynamic and Stochastic Theory of Confidence, Choice, and Response Time. Under review at *Psychological Review*.

BOOK REVIEWS

Review of "Judgment and Decision Making". Edited by H. Arkes and K. Hammond *Contemporary Psychology, 1988, 33, 533-534*.

Review of "Decision Analysis and Behavioral Research" by D. von Winterfeldt and W. Edwards *Journal of Mathematical Psychology, 1990, 34, 116-122*.

Review of "Judgment, Decision, and Choice: A cognitive behavioral synthesis" by H. Rachlin (with R. Proctor, J. Capaldi, D. Santogrossi). *Journal of Mathematical Psychology, 1992, 36, 310-317*.

Review of "Multidimensional models of perception and cognition." By F. Gregory Ashby *Contemporary Psychology, 1995, 40, 972*.

Review of "Mathematical models for neural networks and design" by Richard Golden *Journal of Mathematical Psychology, 42, 107-109*.

PROFESSIONAL PAPERS

Black, R. W., Busemeyer, J. R., & Busemeyer, M. K. S. (1976). Incentive value of reinforcement schedules. Paper presented at the Seventeenth Annual Meeting of the Psychonomic Society, St. Louis, MO.

Taylor, M. W., & Busemeyer, J. R. (1979). Competing models of choice for urban public services. Paper presented at the South-West Political Science Association Convention.

Busemeyer, J. R. (1979). The combined effects of event patterns and payoffs on choice behavior in a sequential decision making task. Paper presented at the Twentieth Annual Meeting of the Psychonomic Society, Phoenix, Arizona.

Busemeyer, J. R. (1982). Random walk model of risky decision making under deadline pressure. Paper presented at the Fifteenth Annual Mathematical Psychology Meeting, Princeton, N. J.

Busemeyer, J. R., & Williams, L. (1982, Spring). The use of analysis of covariance structure methods to analyze linear operator learning models. Paper presented at the Psychometric Society Meeting, Montreal, Canada.

Busemeyer, J. R. (1982, November). A serial averaging model of prototype learning. Paper presented at the Third Annual Meeting of the Judgment and Decision Making Society, Minneapolis, Minnesota.

Busemeyer, J. R. (1984). Psychological Models of deferred decision making. Paper presented at the Seventeenth Annual Mathematical Psychology Meeting, Chicago, Illinois.

Busemeyer, J. R., & Townsend, J. T. (1985). Toward an adaptive theory of decision making. Paper presented at the Eighteenth Annual Mathematical Psychology Meeting, San Diego, California.

Busemeyer, J. R. (1985). Adaptive approach to resource allocation. Paper presented at the Twenty Sixth Annual Meeting of the Psychonomic Society, Boston, Mass.

Busemeyer, J. R. (1986). Restle and Tversky choice models are empirically distinguishable, Professional Papers (Cont'd)but it takes time. Paper presented at the Nineteenth Annual Meeting of the Mathematical Psychology Society, Cambridge, Mass.

Townsend, J. T. & Busemeyer, J. R. (1986). Approach-Avoidance: Return to dynamic decision behavior. Paper presented at the Tulane Annual Symposium on Cognition.

Busemeyer, J. R. (1987). A new method for investigating prototype learning. Twentieth Annual Meeting of the Mathematical Psychology Society, Berkeley, CA.

Townsend, J. T., & Busemeyer, J. R. (1987). Some initial inferences from an approach-avoidance model to risky decision making. Twentieth Annual Meeting of the Mathematical Psychology Society, Berkeley, CA.

Busemeyer, J. R. (1987). A new method for investigating prototype learning. Paper presented at the Twenty Eighth Annual Meetings of the Psychonomic Society. Seattle, Washington.

Busemeyer, J. R., You, G. M., & Townsend, J. T. (1988). A stochastic version of the approach-avoidance model. Paper presented at the Twenty First Annual Meeting of the Mathematical Psychology Society, Evanston, IL.

Busemeyer, J. R., & Myung, I. J. (1988). An adaptive approach to human decision making. Invited symposium presentation at the XXIV International Congress of Psychology, Sydney, Australia.

Busemeyer, J. R., & Myung, I. J. (1988). An adaptive approach to human decision making. Twenty Ninth Annual Meeting of the Psychonomic Society, Chicago, Illinois.

Busemeyer, J. R. (1989). Quantitative tests of the approach-avoidance model of decision making. Paper presented at the Twenty Second Annual Mathematical Psychology Meeting, Irvine, California.

Myung, I. J., & Busemeyer, J. R. (1989). A state-space model for prototype learning. Paper presented at the Eleventh Annual Conference of the Cognitive Science Society, Ann Arbor, Michigan.

Busemeyer, J. R., & Townsend, J. T. (1989). Decision Field Theory: A dynamic-cognitive approach to decision making. Paper presented at the 30th Annual Meeting of the Psychonomic Society, Atlanta, GA.

Busemeyer, J. R. (1990). Linking together different measures of preference. Paper presented at the Fifth International Conference on Probability, Decision, and Risk, Duke University, N.C.

Busemeyer, J. R. (1990). Linking together different measures of preference. Paper presented at the 23rd Annual Meeting of the Mathematical Psychology Society, Toronto, Canada.

Busemeyer, J. R. (1991). A decision field theory explanation of paradoxical findings from research on risky decision making. Invited paper presented at the 24th Annual Meeting of the Mathematical Psychology Society, Bloomington, Indiana.

Busemeyer, J. R. (1991). An adaptive network model of hypothesis testing. Paper presented at the 24th Annual Meeting of the Mathematical Psychology Society, Bloomington, Indiana.

Diederich, A., & Busemeyer, J. R. (1991). Intersensory facilitation with multiple stimuli. Paper presented at the 31st Annual Meeting of the Psychonomic Society, San Francisco, CA.

Busemeyer, J. R. (1992). Explanations of inconsistencies between certainty equivalence and probability equivalence measures of utility derived from decision field theory. Invited talk presented at the Midwestern Psychological Association meeting, Chicago, Illinois.

Busemeyer, J. R., & Knoth, N. (1992). Learning algorithms for general recognition theory. Paper presented at the 25th Annual Meeting of the Mathematical Psychology Society, Stanford, CA.

Busemeyer, J. R., Delosh, E., Choi, S., & McDaniel, M. (1992). Extrapolation: The sine qua non of abstraction. Paper presented at the 32nd Annual Meeting of the Psychonomic Society.

Busemeyer, J. R., & Weg, Eythan (1993). Decision field theory for decision trees. Paper presented at the TIMS/OQSA Meeting, Chicago, IL.

Busemeyer, J. R. (1993). Decision field theory for decision trees. Paper presented at the 26th Annual Meeting of the Society for Mathematical Psychology, Norman, OK.

Busemeyer, J. R., Martinez, M. R., & Bersabé, R. M. (1993). Judgments of indifference or equality: A theoretical analysis based on decision field theory. European Meeting of the Psychometric Society, Barcelona, Spain.

Busemeyer, J. R. (1994). Abstraction of intervening concepts. Invited talk presented at the Midwestern Psychological Association Meeting. Chicago, IL.

Busemeyer, J. R., Wang, Y. M. (1995) Evaluation of methods for model comparison. Paper presented at the 28th Annual Meeting of The Society for Mathematical Psychology, Los Angeles, CA.

Busemeyer, J. R. (1996) Learning functional relations based on experience with input output pairs by humans and artificial neural networks. Paper presented at the 29th Annual Meeting of The Society for Mathematical Psychology, Chapel Hill, NC.

Busemeyer, J. R. (1996) Learning functional relations based on experience with input output pairs by humans and artificial neural networks. Paper presented at the 37th Annual Meeting of the Psychonomic Society, Chicago, Ill.

Busemeyer, Jerome R., Weg, Eythan. & Zhengping Ma. (1997) Empirical Tests of Dynamic Consistency. Paper presented at the 30th Annual Meeting of the Society for Mathematical Psychology, Bloomington, Indiana.

Busemeyer, J. R. (1997) The Generalization test method for model comparison. Invited paper

for the Methods for Model Comparison Conference, Bloomington Indiana.

Busemeyer, J. R. (1997) Empirical tests of dynamic consistency. Paper presented at the Judgment and Decision Making Society Meeting, Philadelphia, Pennsylvania.

Busemeyer, J. R. (1998) Principles for choosing among diffusion models of response time. Annual Interdisciplinary Conference, Jackson Hole, Wyoming.

Roe, R. & Busemeyer, J. R. (1998) Extension of Decision field theory to multiple choice tasks. Paper presented at the 1998 Meeting of the Psychometric Society, Champaign IL.

Roe, R. & Busemeyer, J. R. (1998) Extension of Decision field theory to multiple choice tasks. Paper presented at the 1998 Meeting of the Society for Mathematical Psychology, Nashville, Tenn.

Busemeyer, J. R. & McDaniel, M. A. (1999) Conceptual basis of function learning. Paper presented at the 1999 meeting of the Society for Mathematical Psychology

Busemeyer, J. R. & McDaniel, M. A. (1999) Conceptual basis of function learning. Paper presented at the 1999 Meeting of the Psychonomic Society.

Barkan, R., Busemeyer, J. R. (1999) Changing plans: Dynamic inconsistency and the effect of experience on the reference point. Paper presented at the 2000 Meeting of the Psychonomic Society, New Orleans.

Busemeyer, J. R. (2000) Survey of decision field theory. Paper presented at the Random Utility Conference, Duke University, Durham, NC.

Busemeyer, J. R. (2000) Multialternative decision field theory. ZIF conference on Choice, Bielefeld, Germany.

Stout, J. R., Busemeyer, J. R. & Finn, P. (2001) Cognitive modeling of the Iowa Gambling task with brain damaged patients. Cognitive Neuroscience Meeting, NY.

Busemeyer, J. R. (2001) Extreme Event Decision Making. Workshop for National Science Foundation, Washington, DC.

Busemeyer, J. R. (2001) Diffusion models for three alternative choice. Society for Mathematical Psychology, Brown University, Providence Rhode Island.

Busemeyer, J. R. (2001) Decision Field Theory for multi-alternative choice. International Meeting of the Cognitive Science Society, Beijing, China. Invited Paper.

Busemeyer, J. R. (2001) Dynamic inconsistency and planning horizon. Psychonomic Society Meeting, Orlando FL.

Busemeyer, J. R. (2001) Dynamics of decision making. Invited presentation at the Symposium on Dynamic Approaches to Psychology, Psychonomic Society, Orlando FL.

Busemeyer, J. R. (2001) Cognitive models for the Bechara gambling task. Judgment and Decision making meeting, Orlando FL.

Busemeyer, J. R., Stout, J. C., Grant, S. & Lin, A. (2002) Cognitive modeling analyses of performance on the Bechara simulated gambling task by drug and alcohol abusing as compared to normal control participants. Cognitive Neuroscience Society Ninth Annual Meeting, San Francisco.

Lin, A. & Busemeyer, J. R. (2002) Generalization test method for comparing models of learning in the Bechara Gambling task. Society for Mathematical Psychology Meeting, Miami, Ohio.

Busemeyer, J. R. (2003) A decision field theory account of preference reversals. Society for Mathematical Psychology Meeting, Ogden, Utah.

Busemeyer, J. R. (2003) A comparison of computational models of preferential choice. Subjective Probability and Utility Decision Making Meeting, Zurich, Switzerland.

Busemeyer, J. R. (2003) A decision field theory account of preference reversals. Psychonomic Society Meeting, Vancouver, Canada.

Busemeyer, J. R. & Johnson, J. J. (2004) A decision field theory account of preference reversals. Foundations of Utility and Risk XI, Paris, France.

Busemeyer, J. R. (2004) Quantum dynamic model of decision making. Society for Mathematical Psychology Meeting, Ann Arbor, Michigan.

Busemeyer, J. R., Stout, J. C., & Yehiam, E. (2004) Cognitive modeling of the Bechara gambling task. Third Annual Workshop on Cognitive neuroscience of category learning. NY, NY

Busemeyer, J. R. (2004) Diffusion models of decision making. Society for Mathematical Biology, University of Michigan.

Busemeyer, J. R. (2004) Quantum dynamic model of decision making. Society for Mathematical Psychology Meeting, University of Michigan.

Busemeyer, J. R. (2004) Application of Cognitive models to psychologically disordered populations. Third Annual Cognitive Neuroscience of Category Learning Conference, New York City.

Busemeyer, J. R. & Johnson, J. J. (2005) A computational model for decision weights. Society for Mathematical Psychology, Memphis, TN.

Busemeyer, J. R. & Johnson, J. J. A computational model for decision weights. Subjective Probability Utility and Decision Making, Stockholm, Sweden.

Busemeyer, J. R., Yechiam, E., & Stout, J. C. (2005) Using cognitive models to map relations between neuropsychological disorders and human decision making deficits. American Consumer Research Meeting, San Antonio, Texas.

Busemeyer, J. R. & Johnson, J.G. (2006) Trading ‘as if’ for ‘as is’ models of decision making: Review of Decision field theory. Cognitive Science meeting , Vancouver, CA.

Busemeyer, J. R. (2006) Quantum information processing explanation of the disjunction effect. Cognitive Science Meeting, Vancouver, CA.

Busemeyer, J. R. (2006) Dynamic choice behavior. Foundations of Utility and Risk, Paris, France.

Busemeyer, J. R. (2006) Quantum information processing applications to Psychology. Society for Mathematical Psychology, Vancouver, CA.

Busemeyer, J. R. (2007) Quantum interactions between inference and decision making. AAAI Spring Symposium, Stanford University.

Busemeyer, J. R. (2007) Quantum model of disjunction effects. Meeting of the Society for Mathematical Psychology, Irvine CA.

Busemeyer, J. R. & Pleskac, T. (2007) Diffusion model of confidence ratings. Cognitive Science Society Meeting, Nashville TN.

Busemeyer, J.R. & Wang, Z. (2007) Tutorial on quantum cognition. Full day tutorial presented at the Cognitive Science Meeting, Nashville, TN.

Busemeyer, J. R. (2007) Quantum information processing model of the disjunction effect. Psychonomic Society Meeting, Long Beach CA.

Busemeyer, J. R. & Wang, Z. (2007) Motivational and emotional processes underlying choice behavior. Psychonomic Society Meeting, Symposium on Motivation.

Busemeyer, J. R. Santuy, E., & Mogiliansky-Lampert, A. (2008) Comparison of Quantum and Markov Models. 2nd Annual Quantum Interactions Meeting, Oxford, England.

Busemeyer, J. R. (2008) Comparison of Quantum and Markov models of decision making. Annual Meeting of the Society of Experimental Psychologists, Indiana University, Bloomington In.

Busemeyer, J. R. (2008) Tutorial on quantum probability. Full day tutorial presented at the Cognitive Science Meeting, Washington DC.

Busemeyer, J. R., Jessup, R. K., & Dimperio, E. (2008) Combining learning and decision making. Paper presented at the Annual Meeting of the Society for Mathematical Psychology, Washington DC.

Jessup, R. K. & Busemeyer, J. R. (2008) Neural correlates of learning processes in decisions based on experience: A Model based fMRI approach. Paper presented at the Psychonomic Society Meeting, Chicago, Ill.

Jessup, R. K., & Busemeyer, J. R. (2008) Neural correlates of differences between decisions based on description versus experience. Paper presented at the Annual Meeting of the Society for Judgment and Decision Making.

Pleskac, T. & Busemeyer, J. R. (2008) Diffusion model of choice, response time, and confidence. Paper presented at the Society for Judgment and Decision Making, Chicago, Ill.

INVITED COLLOQUIA

Busemeyer, J. R. LISREL workshop for the Illinois Chapter of the American Statistical Association, Champaign, Illinois, Spring 1985.

Busemeyer, J. R. Psychological Models of Deferred Decision Making. Departmental Colloquium presentation at the University of Illinois, Champaign, Illinois, Spring 1986.

Busemeyer, J. R. Restle and Tversky choice models are empirically distinguishable, but it takes time. Colloquium presented to the Quantitative Division of the Psychology Department at the University of Illinois, Champaign, IL, Spring 1986.

Busemeyer, J. R. A new method for investigating prototype learning. Colloquium presented to the Quantitative and Experimental Divisions of the Psychology Department at Ohio State University, Columbus, OH, Spring 1987.

Busemeyer, J. R. An approach-avoidance model of risky decision making. Colloquium presented to the Experimental Division of the Psychology Department at Indiana University, Bloomington, IN, Summer 1987.

Busemeyer, J. R. Cue completion effects: Implications for adaptive network models. Colloquium presented at Northwestern University, Fall 1989.

Busemeyer, J. R. Decision field theory. Colloquium presented at University of Chicago, Fall 1989.

Busemeyer, J. R. Decision field theory. Colloquium presented at Pennsylvania State University, Fall 1989.

Busemeyer, J. R. Fundamental derivations for decision field theory. Invited workshop presentation at University of California at Irvine, Summer 1990.

Busemeyer, J. R. Cue competition effects. Invited colloquium presented at University of Michigan, Fall 1991.

Busemeyer, J. R. Decision field theory. Invited colloquium presented at University of North Carolina at Chapel Hill, February 1993.

Busemeyer, J. R. Decision field theory. Invited colloquium presented at Boston University, September, 1993.

Busemeyer, J. R. Decision field theory. Invited paper presented at the Conference on Choice, Duke University, 1993.

Busemeyer, J. R., McDaniel, M., & Byun, E. Intervening variable concepts. Invited paper presented at the Conference on the Frame Problem, Ecole Polytechnique CREA, Paris France, November, 1993.

Busemeyer, J. R. Extrapolation: The sine qua non of abstraction. University of New Mexico, Albuquerque, N.M., 1994.

Busemeyer, J. R. Extrapolation. Ohio State University, Columbus, OH, 1995.

Busemeyer, J. R. An adaptive network model of function learning. De Paul University, Chicago Illinois, 1995.

Busemeyer, J. R. Learning functional relations from experience with input-output pairs by humans and artificial neural networks. William Lowe Bryan Lecture, Cognitive Science Program, Indiana University, 1996.

Busemeyer, J. R. Learning functional relations. Miami University of Ohio. 1996.

Roe, R. M. & Busemeyer, J. R. Multi-alternative decision field theory. Ohio State University. 1999.

Busemeyer, J. R. Survey of Decision field theory. University of California, Berkeley, 2000.

Busemeyer, J. R. Survey of Decision Field Theory. University of S. Carolina, 2000.

Busemeyer, J. R. Survey of Decision Field Theory. University of Illinois, Champaign. 2000.

Busemeyer, J.R. (2000) Multialternative decision field theory. Zhejiang University, Hangzhou, PRC.

Busemeyer, J. R. & Stout, J. (2000) Cognitive models of decision-making deficits in the Bechara Gambling Task. Columbia University.

Busemeyer, J. R. (2001) Multialternative decision field theory. Small Group Conference on Experienced based decision making. Universitat Heidelberg, Germany

Busemeyer, J. R. & Stout, J. (2001) Cognitive models of decision-making deficits in the Bechara Gambling Task. Ohio University.

Busemeyer, J. R. (2002) What are the bounds of rationality? Max Planck Institute, Berlin, Germany.

Busemeyer, J. R. (2002) Computational models of decision making. First of the Jack Hilgard Lecture Series. Stanford University, Palo Alto, California.

Busemeyer, J. R. (2002) A survey of 40 years of research on preferential choice. University of California, Irvine, California.

Busemeyer, J. R. (2002) Cognitive models of decision-making deficits in the Bechara Gambling Task. University of Maryland, College Park, Maryland.

Busemeyer, J. R. (2003) A decision field theory explanation for preference reversals. Conference on individual decision making, University of California at Irvine.

Busemeyer, J. R., (2003) Context effects on preferential choice. Zhejiang University, HongZhou, China.

Busemeyer, J. R. (2003) What can computational models of preference contribute to marketing research and product development? China Europe International Business School, Shanghai, China.

Busemeyer, J. R. (2004) A decision field theory explanation for preference reversals. University of Pennsylvania, Wharton School of Business.

Busemeyer, J. R. (2004) Comparing models of decision making based on learning from experience. University of California at Irvine.

Busemeyer, J. R. (2004) How to we decide that we are undecided. Conference on Intuition in decision making, Heidelberg Germany.

Busemeyer, J. R. (2004) Decomposition of decision making performance on the Iowa

Gambling Task by individuals with brain disorders and drug abuse disorders. University of New Mexico.

Busemeyer, J. R. (2004) Decomposition of decision making performance on the Iowa Gambling Task by individuals with brain disorders and drug abuse disorders. University of Texas, Arlington.

Busemeyer, J. R. (2004) Decomposition of decision making performance on the Iowa Gambling Task by individuals with brain disorders and drug abuse disorders. University of Texas, Austin.

Busemeyer, J. R. (2004) Quantum Dynamics of decision making. Decision Sciences Department, Carnegie Mellon University.

Busemeyer, J. R. (2004) Quantum dynamics of decision making. Quantitative Area, Psychology Department, Ohio State University.

Busemeyer, J. R. (2004) Cognitive modeling of decision making deficits in psychologically disordered and brain damaged populations. Third Annual Workshop on Cognitive Neuroscience of Category Learning. October, 2004, NY, NY.

Busemeyer, J. R. (2005) A computational model for decision weights. Small invitational conference on Individual decision making at University of California at Irvine.

Busemeyer, J. R. (2005) A computational model for decision weights. Decision Research Department, School of Business, University of Chicago.

Busemeyer, J. R. (2005) A computational model for decision weights. Air Force Office of Scientific Research, Arlington, VA.

Busemeyer, J. R. (2005) Can diffusion models build a bridge between neuroscience and behavior? Center for Neuroscience, University of California at Davis.

Busemeyer, J. R. (2005) A computational model for decision weights. University of Maryland.

Busemeyer, J. R. (2006) Multi-alternative diffusion models. Freiburg University conference on diffusion models, Freiburg Germany.

Busemeyer, J. R. (2006) Building bridges between neuroscience and decision making. Vanderbilt University.

Busemeyer, J. R. (2006) Building bridges between neuroscience and decision making. NSF workshop on Neuroeconomics, Stanford University.

Busemeyer, J. R. (2006) Survey of decision field theory. Stanford Institute for Theoretical Economics.

Busemeyer, J. R. (2006) Building bridges between neuroscience and decision making. Princeton University, Department of Economics, Seminar on Behavioral Economics.

Busemeyer, J. R. (2006) Building bridges between neuroscience and decision making. University of South Florida, Department of Psychology, colloquium.

Busemeyer, J. R. (2007) Quantum probability principles for social and behavioral sciences. B.J. Winer Conference on Mathematical Psychology, Purdue University.

Busemeyer (2007) Basic assumptions underlying probabilistic preference. Conference on decision making, University of California at Irvine.

Busemeyer, J. R. (2007) Quantum model of the disjunction effect. Workshop on Quantum Decision Making, Vaxjo University, Vaxjo Sweden.

Busemeyer, J. R. (2007) Challenges to Bayesian models of cognition. Invited talk presented at the NSF Summer workshop on Probabilistic Models of Cognition, University of California at Los Angeles.

Busemeyer, J. R. (2007) Incorporating learning models into decision field choice processes. AFOSR Workshop on diffusion models, Ohio State University.

Busemeyer, J. R. (2007) Incorporating learning models into decision field choice processes. University of Arizona, Department of Psychology colloquium.

Busemeyer, J. R. (2008) Overview of Decision Field Theory. Princeton University, Decision Neuroscience Group Colloquium.

Busemeyer, J. R. (2008) Applications of Quantum Probability to Decision Making. AFOSR Conference on Decision Making, University of Arizona.

Busemeyer, J. R. (2008) Applications of Quantum Probability to Cognition. University of Illinois, Quantitative Psychology Colloquium.

Busemeyer, J. R. (2008) Dynamic models of decision making. Keynote Speaker at Dynamic Systems Conference, Miami University, Ohio.

Busemeyer, J. R. (2008) Quantum memory models. Festrift on Memory Models for Doug Nelson, University of South Florida.

Busemeyer, J. R. (2008) Applications of Quantum Probability Theory to Cognitive Science. Polytechnic University, Brooklyn NY Department Colloquium.

Busemeyer, J. R. (2008) Overview of Decision Field Theory. ONR Workshop on Social and Cultural modeling, Washington, DC.

Busemeyer, J. R. (2008) Overview of decision field theory with applications to engineering. Ohio State University, Department of Industrial Engineering Colloquium.

Busemeyer, J. R. (2008) Overview of decision field theory. Johns Hopkins University, Bodian Seminar in Neuroscience at Krieger Mind Brain Institute.

Busemeyer, J. R. (2008) Quantum probability. Keynote Speaker for the 2nd Annual International Congress on Complexity and Sport Science, Maderia Island, Portugal.

Busemeyer, J. R. (2008) Applications of Quantum Probability to Cognitive Sciences. Michigan State University, Distinguished Speaker in Cognitive Science Lecture Series.

MA THESES DIRECTED

In Jae Myung	Quantitative Psychology
Guey Mei You	Quantitative Psychology
Ed Delosh	Cognitive Psychology
Bo Jiang	Quantitative Psychology
Xuyang Li	Cognitive Psychology

DISSERTATIONS DIRECTED

Greg Elvers	Cognitive Psychology (Co-chair with Bob Sorkin)
In Jae Myung	Quantitative Psychology, Full Professor of Psychology at Ohio State University.
Helena Kadlec	Quantitative Psychology (Co-chair with Jim Townsend), currently Associate Professor of Psychology at University of Victoria.
Adele Diederich	Quantitative Psychology, currently Full professor at the International University in Bremen, Germany.
Ed Delosh	Cognitive Psychology, currently Associate Professor of Psychology at Colorado State University.
Sangsup Choi	Cognitive Psychology, currently postdoctoral researcher in the Department of Industrial Engineering at Korea Advanced Institute of Science and Technology.
Eunhee Byun	Cognitive Psychology, Currently visiting Professor at Chung-Nam University in Korea.
Joseph Johnson	Indiana University, Cognitive Science, Currently Assistant Professor at

Miami University of Ohio.
Tei Laine Indiana University, Cognitive Science
Ryan Jessup Indiana University, Cognitive Science, Currently Post Doc at Trinity College
Dublin, Ireland
Eric Dimperio Indiana University, Cognitive Science (in progress)
Merv Matthew Indiana University, Psychology (in progress)
Jennifer Trueblood Indiana University Cognitive Science (in progress)

POST DOCTORAL STUDENTS

Robert Roe (1997-2000) Asst. Prof. Psych. Ohio University.
Rachel Barkan (1997-1999) Associate Prof Business Ben Gurion University.
Hugh Kelley (1998-2000) Prof. Economics at Kobenhavn University, Copenhagen, Denmark.
Joerg Rieskamp (2001-2002) Research scientist at the Max Plank Institute for Human
Development at Berlin
Anli Lin (2001-2002) Statistician at Harcourt Publishing Co., San Antonio Texas.
Eldad Yehiam (2003-2005) Assistant Professor at the Technion University
Elizabeth Veinott (2004-2006) Research Scientist at Klein Associates
Anthony Bechara (2005-present) Assistant Professor , College of Charleston, S.C.
Tim Pleskac (2006 – 2007) Assistant Professor at University of Michigan
Woojae Kim (2007-present)

CURRENT RESEARCH INERESTS

For the past 15 years I have worked in the general area of judgment and decision making with a special interest in the cognitive processes involved in decisions. In pursuit of these interests, I developed (in collaboration with Jim Townsend at Indiana University) a dynamic-stochastic theory of decision making called decision field theory. Currently I have obtained funding from NIMH and NSF for research to investigate the application and extension of decision field theory to decision trees -- decisions entailing the planning of sequences of actions and events over time. Decision field theory predicts that the assumptions of rational theory (i.e., dynamic programming) should be violated by human decision-makers under a specified range of conditions. This research program includes experimental tests of behavioral properties that discriminate between decision field theory and dynamic programming theory in terms of their usefulness for representing human preferences among actions in decision trees.

For the past 10 years I have also worked on concept learning, including contingency learning, function learning, and intervening cause learning. I am currently developing a general theory (in collaboration with Mark McDaniel at University of New Mexico) that integrates these three learning problems within a single theoretical framework. The theory is based on connectionist or adaptive neural network learning principles. We recently completed an NIMH grant on this topic, and I have submitted a new proposal to NIMH this fall of 1999.

Finally, I have worked on methodological issues of measurement and statistic occasionally over the past 15 years. Currently, I am working on a project that evaluates different methods for comparing complex mathematical models of input-output systems. This includes log likelihood ratio tests, the Akaike and Schwartz criteria, cross-validation test, and a new method that I am developing called the generalization test. I plan to write a grant proposal to the Methodology Section of NSF to fund this work.

REFERENCES

Professor Mark A. McDaniel
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Professor Rich Shiffrin
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Indiana University
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Professor Roger Ratcliff
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