

JEROME R. BUSEMEYER

Distinguished Professor
Psychological & Brain Sciences
Cognitive Science
Adjunct Professor of Statistics

June 12, 2022

PERSONAL

Address: Indiana University
Psychological & Brain Sciences
1101 E. 10th Street
Bloomington, IN 47405-1301

Office Phone: 812-855-4882
Fax: 812-855-4691
Email: jbusemey@indiana.edu
Web: <http://mypage.iu.edu/~jbusemey/home.html>

EDUCATION

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

RESEARCH SPECIALIZATION

Quantitative Methods and Mathematical/Dynamic Modeling
Judgment and Decision Making

PROFESSIONAL EXPERIENCE

1997-present Professor, now Distinguished
Department of Psychological and Brain Sciences
Cognitive Science Program
Indiana University, Bloomington, IN

2006-present Adjunct Professor
Department of Statistics
Indiana University, Bloomington, IN

- 2005-2007 Manager, Cognition and Decision Program
Air Force Office of Scientific Research
875 N. Randolph, Arlington VA
- 1994-1997 Professor
Department of Psychological Sciences
Purdue University, West Lafayette, IN
- 1988-1993 Associate Professor
Department of Psychological Sciences
Purdue University, West Lafayette, IN
- 1983-1988 Assistant Professor
Department of Psychological Sciences
Purdue University, West Lafayette, IN
- 1982-1983 Scientific Consultant
Mathematical models of consumer behavior
The Procter & Gamble Co., Cincinnati, OH
- 1981-1983 Assistant Professor
Department of Psychology
Indiana University-Purdue University, Indianapolis, IN

TEACHING EXPERIENCE

Undergraduate

Introductory Statistics
Problem Solving and Decision Making

Graduate

Advanced Statistical Analysis I
Advanced Statistical Analysis II
Choice Models
Experimental Design in Psychology
Multivariate Analysis
Models in Cognitive Science
Nonlinear Models
Quantitative Methods in Psychology
Time Series and Signal Processing

PROFESSIONAL AFFILIATIONS

Cognitive Science Society (Fellow)
The Psychonomic Society (Fellow)
The Society for Judgment and Decision Making
The Society for Mathematical Psychology

EDITORIAL & REVIEW WORK

Editor-in-Chief: *Decision* (2012 to 2019)
Associate Editor: *Psychological Review* (January, 2012 to 2015)
Associate Editor: *Topics in Cognitive Science* (2011 to 2013)
Editor-in-Chief: *Journal of Mathematical Psychology* (January, 2005-2010)

Consulting Editor and Editorial Boards:

Journal of Experimental Psychology: LMC (1986-2002)
Journal of Mathematical Psychology (1990-present)
Computational Brain and Behavior (2018-present)
Psychological Bulletin (1996-1998)
Psychological Methods (2012 to 2014)
Psychological Review (1999-2015)
Psychological Science (2006-2011)
Psychonomic Bulletin & Review (1994, 2002-2006)
Mind and Matter (2019-present)

Federal Review Panels:

NIMH, Perception and Cognition
NRC, Human Behavioral Models
NSF, Learning and Intelligent Systems
NSF, Methodology, Measurement, Statistics

ACADEMIC AWARDS

2021 Fellow American Association Advancement Science
2019 Honorary Doctorate from University of Basel
2017 Distinguished Professor of Indiana University
2017 Fellow of the Cognitive Science Society
2017 Fellow of the American Academy of Arts and Sciences
2015 Howard Crosby Warren Medal awarded by Society of Experimental Psychologists
2012 Provost Professor of Indiana University
2006 Fellow of the Society of Experimental Psychologists
2006 Best paper award, *Journal of Mathematical Psychology*

- 2002 Jack Hilgard Lecture at Stanford University
- 2000 Distinguished Graduate Alumnus Award, University of South Carolina
- 1998 Hans Institute Fellowship for Advanced Study, Germany
- 1996 James McKeen Cattell Award, \$24,000
- 1996 Institute for Advanced Research, Indiana University, \$4,500
- 1993 President of the Society for Mathematical Psychology
- 1980 NIMH PostDoctoral Fellow, NIMH Grant MHI 425 706

FEDERAL RESEARCH GRANTS

- 2020-2022 AFOSR
Applications of quantum probability theory to human-machine communication Networks (PI)
FA9550-15-1-0343 \$1,282,692.00
- 2016-2019 NSF-MMS
“Multi-dimensional Hilbert space model” (PI)
NSF SES-1560554 \$500,000
- 2015-2018 AFOSR
“Quantum theory for strategic decision making” (PI)
FA9550-15-1-0343 \$813,095
- 2014-2019 NIDA
“Varieties of impulsivity in opiate and stimulant users” (Co-PI)
Grant No. R01DA021421 \$30,000 per year
- 2012-2015 AFOSR
“Applications of quantum probability theory to dynamic decision making” (PI)
Grant No. FA 9550-12-1-0397, \$608,000
- 2012-2013 NSF, SES, Method, Measure, & Statistics; Decision, Risk, & Management Science
“Quantum decision theory” (PI)
Grant No. SES-1153726, \$50,697
- 2011-2014 NIDA
“Model generalization and parameter consistency for cognitive models of decision making” (PI)
Grant No. R01-DA030551, \$462,000
- 2011-2013 IARPA (Contracted through Applied Research Associates)
“Mitigating Cognitive Bias Through Interactive Simulations” (Co-PI)
Grant No. S-001316.02, \$158,150

2010-2013 NSF, ECCS, Energy, Power, & Adaptive System
 “Integrating dynamic decision making with neurocontrollers by combining system and cognitive sciences” (PI)
 Grant No. ECCS-1002188, \$136,645
 Together with the collaborative research grant ECCS-1002333, \$355,892 in total

2009-2012 NSF, SES, Method, Measure, & Statistics; Decision, Risk, & Management Science
 “Quantum decision theory” (PI)
 Grant No. SES-0817965, \$211,331
 Together with the collaborative research grant SES-0818277, \$449,765 in total

2008-2013 NIAAA
 “Behavioral Disinhibition and early onset alcoholism” (Co-PI); PI: Peter Finn
 Grant No. R01 AA013650 , \$800,000

2005- 2009 NIDA
 “Cognitive modeling of risky decision in drug abusers” (PI)
 Grant No. R01 DA 014119, \$1,204,000

2004-2008 NIMH
 “Comparing models of function learning” (PI)
 Grant No. R01 MH 068346, \$594,823

2002-2008 NSF, BCS, Major Research Instrumentation
 “Development of a spatial-experimental laboratory for research and policy analysis related to complex systems” (Co-PI); PI: Elinor Ostrom; Co-PIs: James Walker, Robert Huckfeldt, Jerome Busemeyer, & Tom Evans
 Grant No. 0215738, \$847,874

2001-2006 NSF, SES, Biocomplexity
 “Biocomplexity research: Agent-based models of land use decisions and emergent land use patterns” (Co-PI); PI: Elinor Ostrom; Co-PIs: James Walker, Jerome Busemeyer, Tom Evans, & Vicky Meretsky
 Grant No. SES-0083511, \$2,751,732

2001-2005 NIDA
 “Cognitive modeling of risky decision in drug abusers” (Co-PI); PI: Julie Stout
 Grant No. R01 DA 014119, \$800,027

1997-1998 NSF, SES, Decision, Risk, & Management Science
 “Decision Field Theory for decision trees” (PI)
 Grant No. SES-9796197, \$67,297

- 1996-1998 NSF, SES, Decision, Risk, & Management Science
 “Decision Field Theory for decision trees” (PI)
 Grant No. SES-9602102, \$102,626
- 1996-1999 NIMH
 “Decision Field Theory” (PI)
 Grant No. R01 MH055680, \$305,420
- 1991-1993 NIMH
 “Intervening concepts in multivariate environment” (PI)
 Grant No. R01 MH047126, \$209,578
- 1987-1990 NSF, BCS, Human Cognition & Perception
 “Theory of adaptive decision making” (PI)
 Grant No. BCS-8710103, \$67,810

BOOKS

- Busemeyer, J. R., DuBois, F., Lambert-Mogiliansky, A., Melucci, M. (2012). *Quantum Interaction: 6th International Symposium, QI 2012*. Lecture Notes in Computer Science, Vol. 7620. Springer.
- Busemeyer, J. R., & Bruza, P. D. (2012). *Quantum models of cognition and decision*. Cambridge, UK: Cambridge University Press.
- Busemeyer, J. R., & Diederich, A. (2009). *Cognitive modeling*. Thousand Oaks, CA: SAGE.
- Busemeyer, J. R., Hastie, R., & Medin, D. L. (1995). *Decision making from a cognitive perspective. Psychology of learning and motivation (Vol. 32)*. New York, NY: Academic Press.

JOURNAL PUBLICATIONS

126. Yi, S., Lu, M., & Busemeyer, J. (2022). Application of Quantum Cognition to Judgments for Medical Decisions. *Quantum Reports*, 4(2).
125. Lu, M., Yi, S., & Busemeyer, J. R. (2022). How Chinese Medicine Theory Expands the Dimensions of our Understanding of Consciousness. *Mind and Matter*, 20(1), 159-166.
124. Jessup, R., Dimperio, E., Busemeyer, J. R., Homer, Philips. (in press) Choice is a tricky thing: Integrating sophisticated choice models with learning processes to better account for complex choice behavior. *Decision*

123. Shavit, Y., Roth, Y., Busemeyer, J., & Teodorescu, K. (in press). Intertemporal decisions from experience. *Decision*
122. Pothos, E. M., Busemeyer, J. R. (2022) Quantum Cognition. *Annual Review of Psychology*, 73, 749-778.
121. Zhang, Q., Busemeyer, J. R. (2021) A quantum walk model for idea propagation in social network and group decision making. *Entropy*, 23(5), 622.
120. Kvam, P. D., Busemeyer, J. R., Pleskac, T. D. (2021). Temporal oscillations in preference strength provide evidence for an open system model of constructed preference. *Scientific Reports*.
119. Kvam, P. D., Romeu, R. J., Turner, B. M., Vassileva, J., & Busemeyer, J. R. (2021). Testing the factor structure underlying behavior using joint cognitive models: Impulsivity in delay discounting and Cambridge gambling tasks. *Psychological Methods*.
118. Busemeyer, J. R., Zhang, Q., Balakrishnan, S. N., & Wang, Z. (2020) Application of Quantum-Markov Open System Models to Human Cognition and Decision. *Entropy*, 22, 990; e22090990
117. Kvam, P. D., & Busemeyer, J. R. (2020) A distributional and dynamic theory of pricing *Psychological Review*, 127(6), 1053–1078.
116. Busemeyer, J. R., Kvam, P. D., & Pleskac, T. J. (2020) Comparing Markov Decision Models with Quantum Decision Models. *WIREs Cognitive Science*. e1576
115. Broekaert, J. B., Busemeyer, J. R., and Pothos, E. M. (2020) The Disjunction Effect in two-stage simulated gambles. An experimental study and comparison of a heuristic logistic, Markov and quantum-like model. *Cognitive Psychology*. 117,
114. Romeu, R. J., Haines, N., Ahn, W. Y., Busemeyer, J. R., Vassileva, J. (2019) A computational model of the Cambridge Gambling Task with applications to substance use disorders. *Drug and Alcohol Dependence*, 206, 1, 2020, 107711
113. Busemeyer, J. R., Kvam, P. D., & Pleskac, T. J. (2019) Markov versus quantum dynamic models of belief change during evidence monitoring. *Scientific Reports*, 9, 18025
112. Busemeyer, J. R., Gluth, S., Rieskamp, J., Turner, B. (2019) Cognitive and Neural Bases of Multi-Attribute, Multi-Alternative, Value-based Decisions. *Trends in Cognitive Sciences*, 23 (3), 251-263.
111. Busemeyer, J. R. & Wang, Z. (2018) Hilbert space multidimensional theory. *Psychological Review*, 125 (4), 572-591.
110. Fakhari, P., Khodadadi, A. & Busemeyer, J. R. (2018). The detour problem in a stochastic environment: Tolman Revisited. *Cognitive Psychology*. 101, 29-49.

119. Busemeyer, J. R. and Wang, Z. (2018). Data fusion using Hilbert space multi-dimensional models. *Theoretical Computer Science*, 752, 41-55.
118. Broekaert, J. B., & Busemeyer, J. R. (2017). A Hamiltonian driven quantum-like model for overdistribution in episodic memory recollection. *Frontiers in Physics*, 5, 23.
117. Pothos, E. M., Busemeyer, J. R., Shiffrin, R. M., Yearsley, J. M. (2017). The rational status of quantum cognition. *Journal of Experimental Psychology: General*, 146 (7), 968-987
116. Busemeyer, J. R., Fakhari, P. & Kvam, P. D. (2017) Possible neural implementation of operations used in quantum cognition. *Progress in Biophysics and Molecular Biology*, 130, 53-60.
115. Gonzalez, C., Fakhari, P. & Busemeyer, J. R. (2017) Dynamic Decision Making: Learning Processes and New Research Directions. *Human Factors*, 59(5), 713-721.
114. Khododadi, A., Fakhari, P., & Busemeyer, J. R. (2017) Learning to Allocate Limited Time to Decisions with Different Expected Outcomes. *Cognitive Psychology*, 95, 17-49
113. Lu, M., & Busemeyer, J. R. (2014). Do traditional chinese theories of Yi Jing ('Yin-Yang' and Chinese medicine go beyond western concepts of mind and matter. *Mind and Matter*, 12(1), 37-59.
112. Dai, J., Gunn, R.L., Gerst, K..R., Busemeyer, J Finn, P.R. (2016) A random utility model of delay discounting and its application to people with externalizing psychopathology. *Psychological Assessment*. 28, 1196-1206
111. Yearsley, J. , & Busemeyer, J. R. (2016) Quantum Cognition and Decision Theories: A Tutorial *Journal of Mathematical Psychology*, 74, 99-116.
110. Basieva, I., Pothos, E., Trueblood, J., Khrennikov, A., & Busemeyer, J. (2017). Quantum probability updating from zero priors (by-passing Cromwell's rule). *Journal of mathematical psychology*, 77, 58-69.
109. Ahn, W-Y. & Busemeyer, J. R. (2016). Challenges and promises for translating computational tools into clinical practice. *Current Opinion in Behavioral Sciences*, 11, 1-7.
108. Johnson, J. J. & Busemeyer, J. R. (2016) A computational model of the attention process in risky choice. *Decision*, 3 (4), 254-280.
107. Wang, Z. & Busemeyer, J. R. (2016) Comparing quantum versus Markov random walk models of judgments measured by rating scales. *Philosophical Transactions of the Royal Society, A*. 374, 20150098.
106. Hotaling, J. M. Cohen, A. L., Shiffrin, R. M., & Busemeyer, J. R. (2015) The dilution effect and information integration in perceptual decision making. *PLoS One* 10(9): e0138481. Doi:10.1371/journal.pone.0138481.
105. Kvam, P. D., Pleskac, T. J., Yu, S., & Busemeyer, J. R. (2015) Interference Effects of Choice on Confidence. Quantum characteristics of evidence accumulation. *Proceedings of the National Academy of Science*, 112 (34) 10645-10650.
104. Bruza, P. D., Wang, Z., & Busemeyer, J. R. (2015) Quantum cognition: A new theoretical approach to psychology. *Trends in Cognitive Science*, 19 (7), 383-393.

103. Dai, J., Kerestes, R., Upton, D., Busemeyer JR, and Stout, J.C. (2015) An improved cognitive model of the Iowa and Sooshow Gambling tasks with regard to model fitting performance and tests of parameter consistency. *Front. Psychol.* 6:229. doi: 10.3389/fpsyg.2015.00229
102. Ahn W-Y, Vasilev G, Lee S-H, Busemeyer JR, Kruschke JK, Bechara A and Vassileva J (2014) Decision-making in stimulant and opiate addicts in protracted abstinence: evidence from computational modeling with pure users. *Front. Psychol.* 5:849. doi: 10.3389/fpsyg.2014.00849
101. White, L., Pothos, E. M., & Busemeyer, J. R. (2015) Insights from quantum cognitive models for organizational decision making. *Journal of Applied Research in Memory and Cognition.*
100. White, L.C., Pothos, E.M., & Busemeyer, J.R. (2014). Sometimes it does hurt to ask: The constructive role of articulating impressions. *Cognition*, 133(1), 48-64.
99. Busemeyer, J. R., Wang, Z. Pothos, E. M., & Trueblood, J. T. (2015). The conjunction fallacy, confirmation, and quantum theory: Comment on Tentori, Crupi, & Russo (2013). *Journal of Experimental Psychology: General*, 144(1), 236-243. doi:http://dx.doi.org/10.1037/xge0000035
98. Busemeyer, J. R., Wang, Z. Khrennikov, A., & Basieva, I. (2014). Applying quantum principles to psychology. *Physica Scripta*, T163, 014007
97. Khrennikov, A., Basieva, I., Dzhaferov, E., & Busemeyer, J. R. (2014). Quantum models for psychological measurements: An unsolved problem. *PLoS*, 9 (10) e110909
96. Busemeyer, J. R., Wang, Z., & Shiffrin, R. S. (2015). Bayesian model comparison favors quantum over standard decision theory account of dynamic inconsistency. *Decision*, 2, 1-12.
95. Wang, Z., Solloway, T., Shiffrin, R. M., & Busemeyer, J. R. (2014). Context effects produced by question orders reveal quantum nature of human judgments. *Proceedings of the National Academy of Science*, 111(26), 9431-9436. doi: 10.1073/pnas.1407756111
94. Dai, J. & Busemeyer, J. R. (2014). Towards a probabilistic, dynamic, and attribute-wise model of intertemporal Choice. *Journal of Experimental Psychology: General*, 143 (4), 1489-1514.
93. Chan, T. W-Z., Ahn, W-Y., Bates, J. A., Busemeyer, J. R., Guillaume, S., Redgrave, G. W., Danner, U. N., & Courtet, P. (2014). Differential impairments underlying decision making in anorexia nervosa and bulimia nervosa: A cognitive modeling analysis. *International Journal of Eating disorders*. 47 (2), 157-167
92. Pothos, E. M., & Busemeyer, J. R. (2014). In search for a standard of rationality. *Frontiers in Psychology*, 5, Article 49, 1-3.
91. Pothos, E. M., Shiffrin, R. M, & Busemeyer, J. R. (2014). The dynamics of decision making when the probabilities are vaguely specified. *Journal of Mathematical Psychology*, 59, 6-17.
90. Vassileva, J., Ahn, W-Y., Weber, K. M., Busemeyer, J. R., Stout, J. C., Gonzalez, R., & Cohen, M. H. (2013). Computational modeling reveals distinct effects of HIV and history of drug use on decision-making processes in women. *PLoS* (8-8) e68962.
89. Fakhari, P., Rajagopal, K., Balakrishnan, S. N., & Busemeyer, J. R (2013). Quantum inspired reinforcement learning in changing environments. *New Mathematics and Natural Computation: Special Issue on Engineering of the Mind, Cognitive Science and Robotics*, 9 (3), 273-294.

88. Pothos, E. M., Busemeyer, J. R., & Trueblood, J. S. (2013). A quantum geometric model of similarity. *Psychological Review*, 120 (3), 679-696.
87. Pothos, E. M., & Busemeyer, J. R. (2013). Can quantum probability provide a new direction for cognitive modeling? *Behavioral and Brain Sciences*, 36, 255-274. (Target Article).
86. Trueblood, J. S., Brown, S. D., Heathcote, A., & Busemeyer, J. R. (2013). Not just for consumers: Context effects are fundamental to decision-making. *Psychological Science*, 24 (6), 901-908.
85. Ahn, W-Y., Ross, O., Fridberg, E. J., Bishara, A. J., Forsyth, J. K., Breier, A., Busemeyer, J. R., Hetrick, W. P., Bolbecker, A. R., & O'Donnell, B. F. (2011). Temporal discounting of awards in patients with bi-polar disorder and schizophrenia. *Journal of Abnormal Psychology*, 120 (4), 911-921.
84. Hotaling, J. M., & Busemeyer, J. R. (2012). DFT-D: A cognitive-dynamical model of dynamic decision making. *Synthese*. 189(1), 67-80.
83. Pothos, E., Perry, G., Corr, P., Matthew, M. R., & Busemeyer, J. R. (2012). Understanding cooperation in the prisoner dilemma game. *Personality and Individual Differences*, 51, 210-215.
82. Busemeyer, J. R., & Pothos, E. M. (2012). Social projection and a quantum approach for behavior in prisoner's dilemma. *Psychological Inquiry*, 23, 28-34.
81. Lambert-Mogiliansky, A., & Busemeyer, J. R. (2012). Quantum type indeterminacy in dynamic decision-making: Self-control through identity management. *Games*, 3(2), 97-118.
80. Trueblood, J. S., & Busemeyer, J. R. (2012). A quantum probability model of causal reasoning. *Frontiers in Cognitive Science*, 3, Article 138.
79. Pothos, E. M., & Busemeyer, J. R. (2011). Formalizing heuristics in decision-making: A quantum probability perspective. *Frontiers in Cognition*, 2, Article 289.
78. Trueblood, J. S., & Busemeyer, J. R. (2011). A quantum probability account for order effects on inference. *Cognitive Science*, 35, 1518-1552.
77. Busemeyer, J. R., Pothos, E., Franco, R., & Trueblood, J. S. (2011). A quantum theoretical explanation for probability judgment 'errors.' *Psychological Review*, 118, 193-218.
76. Ahn, W.Y., Krawitz, A., Kim, W., Busemeyer, J. R., & Brown, J. W. (2011). A model based f-MRI analysis with hierarchical Bayesian parameter estimation. *Journal of Neuroscience, Psychology, and Economics*, 4(2), 95-110.
75. Proctor, R. W., Nof, S. Y., Yih, Y., Balasubramanian, P., Busemeyer, J. R., Carayon, P., Chiu, C.-Y., Farahmand, F., Gonzalez, C., Gore, J., Landry, S. J., Lehto, M., Rau, P.-L., Rouse, W., Kim-Phuong, Louis, T., Vu, K. L., Woo, S. E., & Salvendy G. (2011). Understanding and improving cross-cultural decision making in design and use of digital media: A research agenda. *International Journal of Human Computer Interaction*, 27(2), 1-40.
74. Hotaling, J. M., Busemeyer, J. R., & Li, J. (2010). Theoretical developments in Decision Field Theory: A Comment on K. Tsetsos, N. Chater, & M. Usher. *Psychological Review*, 117, 1294-1298.
73. Pleskac, T. J., & Busemeyer, J. R. (2010). Two-stage dynamic signal detection: A theory of choice, decision time, and confidence. *Psychological Review*, 117, 864-901. PMID: 20658856
72. Johnson, J. G., & Busemeyer, J. R. (2010). Decision-making under risk and uncertainty. *Wiley*

71. Jessup, R. K., Busemeyer, J. R., & Brown, J. W. (2010). Error effects in anterior cingulate cortex reverse when error likelihood is high. *Journal of Neuroscience*, 30, 3467-3472.
70. Fridberg, D. J., Queller, S., Ahn, W. Y., Bishara, B. J., Yechiam, E., Busemeyer, J. R., Porrino, L., & Stout, J. C. (2010). Cognitive mechanisms underlying risky decision-making in chronic cannabis users. *Journal of Mathematical Psychology*, 54, 28-38.
69. Bishara, A., Kruschke, J. K., Stout, J. C., Bechara, A., McCabe, D. P., & Busemeyer, J. R. (2010). Sequential learning models for the Wisconsin Card Sort Task: Assessing processes in substance dependent individuals. *Journal of Mathematical Psychology*, 54, 5-13.
68. Busemeyer, J. R., Wang, Z., & Lambert-Mogiliansky, A. (2009). Empirical comparison of Markov and quantum models of decision making. *Journal of Mathematical Psychology*, 53, 423-433.
67. 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.
66. Jessup, R. K., Veinott, E. S., Todd, P. M., & 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, 299-320.
65. Bishara, A. J., Pleskac, T. J., Fridberg, D. J., Yechiam, E., Lucas, J., Busemeyer, J. R., Finn, P. R., & Stout, J. C. (2009). Similar processes despite divergent behavior in two commonly used measures of risky decision-making. *Journal of Behavioral Decision Making*, 22, 435-454.
64. Busemeyer, J. R., & Pleskac, T. (2009). Theoretical tools for understanding and aiding dynamic decision making. *Journal of Mathematical Psychology*, 53, 126-138.
63. 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, 173-195.
62. Jessup, R. K., Bishara, A., & Busemeyer, J. R. (2008). Feedback produces divergence from prospect theory in descriptive choice. *Psychological Science*, 19, 1015-1022.
61. 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.
60. 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, 218-240.
59. Yechiam, E., Kanz, J. E., Stout, J. C., Busemeyer, J. R., Paulsen, J. S., & Bechara, A. (2008). Neurocognitive deficits related to poor decision-making in people behind bars: A peek inside their brains. *Psychonomic Bulletin and Review*, 15, 44-51.
58. Yechiam, E. & Busemeyer, J. R. (2008). Evaluating generalizability and parameter consistency in learning models. *Games and Economic Behavior*, 63, 370-394.
57. Busemeyer, J. R., Barkan, R., Mehta, S., & Chattervedi, A. (2007). Context models and models of preferential choice: Implications for consumer behavior. *Marketing Theory*, 7, 39-58.

56. 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.
55. 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.
54. 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.
53. 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*, 51-72.
51. 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*, 254-264.
50. Yechiam, E. & Busemeyer, J. R. (2006). The effect of foregone payoffs on underweighting small probability payoffs. *Journal of Behavioral Decision Making*, *19*, 1-16.
49. Johnson, J. G. & Busemeyer, J. R. (2005). A dynamic, stochastic, computational model of preference reversal phenomena. *Psychological Review*, *112*, 841-861.
48. 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*, 973-978.
47. 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.
46. Yehiam, E., & Busemeyer, J. R. (2005). Comparison of basic assumptions embedded in learning models for experienced based decision making. *Psychonomic Bulletin and Review*, *12*, 387-402.
45. 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.
44. Woods, S., Busemeyer, J. R., & Kolling, A. (2005). Older adults as adaptive decision-makers: Evidence from the gambling task. *Psychology and Aging*, *20*, 220-225.
43. 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*, 253-255.
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40. Busemeyer, J. R. & Pothos, Z. (to appear). Quantum Models of Cognition. R. Sun (Ed) *The Cambridge Handbook on Computational Cognitive Sciences*. Cambridge University Press
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PROCEEDING PUBLICATIONS

19. Zhang, Q., Balakrishnan, S. N., & Busemeyer, J. (2018). Fault Detection and Adaptive Parameter Estimation with Quantum Inspired Techniques and Multiple-Model Filters. In 2018 AIAA *Guidance, Navigation, and Control Conference* (p. 1124).
18. Kvam, P. D., Pleskac, T. J., Busemeyer, J. R., & Yu. S. (2014). Interference in choice and confidence: Using the quantum random walk to model distributions of confidence. In Atmanspacher, H., Haven, E., Kitto, K., & Rene, D. (Eds.) *Quantum Interaction, 7th International Symposium*. (Pp. 225-230). Springer Lecture Notes in Computer Science. Berlin: Springer.
17. Kvam, P. D., Busemeyer, J. R., & Lambert-Mogiliansky, A. (2014). An empirical test of type indeterminacy in the prisoner's-dilemma. In Atmanspacher, H., Haven, E., Kitto, K., & Rene, D. (Eds.) *Quantum interaction, 7th International Symposium*. Springer Lecture Notes in Computer Science. (Pp. 213-224). Berlin: Springer.

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BOOK REVIEWS

5. Review of “Mathematical models for neural networks and design” by R. Golden, *Journal of Mathematical Psychology*, 1998, 42, 107-109.
4. Review of “Multidimensional models of perception and cognition” by F. G. Ashby, *Contemporary Psychology*, 1995, 40, 972.
3. 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.
2. Review of “Decision analysis and behavioral research” by D. von Winterfeldt and W. Edwards, *Journal of Mathematical Psychology*, 1990, 34, 116-122.
1. Review of “Judgment and decision making” by H. Arkes and K. Hammond, *Contemporary Psychology*, 1988, 33, 533-534.

KEYNOTE & PLENARY TALKS

- Busemeyer, J. R. (2021) Quantum cognition and decision. Winter School of Mathematical Psychology, Tehran, Iran (via zoom).
- Busemeyer, J. R. (2018) Interface between engineers and social-scientists: Low-hanging fruits, language barriers, and synergy. Second IFAC Conference on Cyber-Physical and Human Systems, Miami Florida
- Busemeyer, J. R. (2016) Quantum cognition. 13th Biennial IQSA (International Quantum Structure Association) University Leicester (United Kingdom), 11-15 July, 2016. (NOTE: I was scheduled for this plenary but I had to cancel because of my motor cycle accident. Emmanuel Pothos took my place.)
- Busemeyer, J. R. (2016) Three lessons learned from using Decision Field Theory to model imprecision and noise. Foundations of Utility and Risk Conference, University of Warwick, UK, June 27-30. (NOTE: I was scheduled for this plenary but I had to do this by Skype because of my motor cycle accident.)
- Busemeyer, J. R. (2015) Hilbert space multi-dimensional model. Conference on quantum probability and the Mathematical Modelling of Decision Making. Plenary talk at Fields Institute, Toronto, CA.

- Busemeyer, J. R. (2014). Order effects in sequential judgments and decisions. Plenary speaker at the Reproducibility Conference at Collegium Helveticum Zurich
- Busemeyer, J. R. (2014) Review of decision field theory. Plenary speaker at Learning, bounded rationality and decisions, January 23-29, 2014 in Israel
- Busemeyer, J. R. (2013). Quantum models of cognition and decision. Plenary at Marcus Wallenberg Symposium on Quantum Theory: Advances and Problems, Vaxjo Sweden.
- Busemeyer, J. R. (2013). Quantum models of cognition and decision. Keynote at the joint meeting of the International Conference on Cognitive Modeling and the 22nd Behavioral Representation in Modeling and Simulation Conference, Ottawa, CA.
- Busemeyer, J. R. (2012). Decision field theory. Keynote talk at the 15th Foundations of Utility, Risk, and Uncertainty (FUR XV) meeting, Atlanta, Georgia.
- Busemeyer, J. R. (2011). Decision field theory model of decision weights. Plenary speaker at the workshop on “Recent advances on the role of beliefs in decision theory,” Université Paris-Dauphine jointly with Paris School of Economics, Paris, France.
- Busemeyer, J. R. (2010). Survey of Decision Field Theory. Invited summer lecturer at the IMPRS, Max Planck Institute for Economics, Jena, Germany
- Busemeyer, J. R. (2009). Quantum probability applied to the Social Sciences. Plenary speaker at the Computer, Humanities, Engineering Sciences Conference, Saskatchewan University, Canada.
- Busemeyer, J. R. (2009). Quantum Probability. Invited half day tutorial presented at the Third Quantum Interaction Meeting, Saarbrücken, Germany.
- 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. (2002). Computational models of decision making. First of the Jack Hilgard Lecture Series. Stanford University, Palo Alto, California