

Michael D Lee

List of Publications by Year in descending order

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134
papers

7,064
citations

101384

36
h-index

88477

70
g-index

140
all docs

140
docs citations

140
times ranked

6170
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Evidence in Experimental Psychology. <i>Perspectives on Psychological Science</i> , 2011, 6, 291-298.	5.2	728
2	The fallacy of placing confidence in confidence intervals. <i>Psychonomic Bulletin and Review</i> , 2016, 23, 103-123.	1.4	352
3	How cognitive modeling can benefit from hierarchical Bayesian models. <i>Journal of Mathematical Psychology</i> , 2011, 55, 1-7.	1.0	269
4	A Survey of Model Evaluation Approaches With a Tutorial on Hierarchical Bayesian Methods. <i>Cognitive Science</i> , 2008, 32, 1248-1284.	0.8	245
5	Hierarchical diffusion models for two-choice response times.. <i>Psychological Methods</i> , 2011, 16, 44-62.	2.7	224
6	Bayesian Benefits for the Pragmatic Researcher. <i>Current Directions in Psychological Science</i> , 2016, 25, 169-176.	2.8	220
7	Unpacking the explorationâ€œexploitation tradeoff: A synthesis of human and animal literatures.. <i>Decision</i> , 2015, 2, 191-215.	0.4	216
8	Evidence accumulation in decision making: Unifying the â€œtake the bestâ€œ and the â€œrationalâ€œ models. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 343-352.	1.4	203
9	A Bayesian analysis of human decision-making on bandit problems. <i>Journal of Mathematical Psychology</i> , 2009, 53, 168-179.	1.0	178
10	Three case studies in the Bayesian analysis of cognitive models. <i>Psychonomic Bulletin and Review</i> , 2008, 15, 1-15.	1.4	131
11	Levels of number knowledge during early childhood. <i>Journal of Experimental Child Psychology</i> , 2009, 103, 325-337.	0.7	124
12	Modeling individual differences using Dirichlet processes. <i>Journal of Mathematical Psychology</i> , 2006, 50, 101-122.	1.0	122
13	Bayesian statistical inference in psychology: Comment on Trafimow (2003).. <i>Psychological Review</i> , 2005, 112, 662-668.	2.7	105
14	The Wisdom of the Crowd in Combinatorial Problems. <i>Cognitive Science</i> , 2012, 36, 452-470.	0.8	104
15	Bayesian Versus Frequentist Inference. , 2008, , 181-207.		100
16	Modeling individual differences in cognition. <i>Psychonomic Bulletin and Review</i> , 2005, 12, 605-621.	1.4	99
17	A tutorial on Bayes factor estimation with the product space method. <i>Journal of Mathematical Psychology</i> , 2011, 55, 331-347.	1.0	79
18	A Hierarchical Bayesian Model of Human Decision-Making on an Optimal Stopping Problem. <i>Cognitive Science</i> , 2006, 30, 1-26.	0.8	78

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19	Determining the Dimensionality of Multidimensional Scaling Representations for Cognitive Modeling. <i>Journal of Mathematical Psychology</i> , 2001, 45, 149-166.	1.0	72
20	Human Performance on Visually Presented Traveling Salesperson Problems with Varying Numbers of Nodes. <i>Journal of Problem Solving</i> , 2006, 1, .	0.7	67
21	Emergent and structured cognition in Bayesian models: comment on Griffiths et al. and McClelland et al.. <i>Trends in Cognitive Sciences</i> , 2010, 14, 345-346.	4.0	64
22	Determining informative priors for cognitive models. <i>Psychonomic Bulletin and Review</i> , 2018, 25, 114-127.	1.4	63
23	Bayesian analysis of recognition memory: The case of the list-length effect. <i>Journal of Memory and Language</i> , 2008, 59, 361-376.	1.1	62
24	Human performance on visually presented Traveling Salesman problems. <i>Psychological Research</i> , 2001, 65, 34-45.	1.0	61
25	A Bayesian hierarchical mixture approach to individual differences: Case studies in selective attention and representation in category learning. <i>Journal of Mathematical Psychology</i> , 2014, 59, 132-150.	1.0	61
26	A power fallacy. <i>Behavior Research Methods</i> , 2015, 47, 913-917.	2.3	61
27	Using priors to formalize theory: Optimal attention and the generalized context model. <i>Psychonomic Bulletin and Review</i> , 2012, 19, 1047-1056.	1.4	59
28	Psychological models of human and optimal performance in bandit problems. <i>Cognitive Systems Research</i> , 2011, 12, 164-174.	1.9	58
29	Robust Modeling in Cognitive Science. <i>Computational Brain & Behavior</i> , 2019, 2, 141-153.	0.9	58
30	Dynamic Models of Simple Judgments: I. Properties of a Self-Regulating Accumulator Module. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 1998, 2, 169-194.	0.2	57
31	A Model of Knowledge Level Behavior in Number Concept Development. <i>Cognitive Science</i> , 2010, 34, 51-67.	0.8	56
32	Number-knower levels in young children: Insights from Bayesian modeling. <i>Cognition</i> , 2011, 120, 391-402.	1.1	52
33	Common and distinctive features in stimulus similarity: A modified version of the contrast model. <i>Psychonomic Bulletin and Review</i> , 2004, 11, 961-974.	1.4	48
34	Extending the ALCOVE model of category learning to featural stimulus domains. <i>Psychonomic Bulletin and Review</i> , 2002, 9, 43-58.	1.4	47
35	The roles of the convex hull and the number of potential intersections in performance on visually presented traveling salesperson problems. <i>Memory and Cognition</i> , 2003, 31, 1094-1104.	0.9	44
36	Choice of Models for the Analysis and Forecasting of Hospital Beds. <i>Health Care Management Science</i> , 2005, 8, 221-230.	1.5	44

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37	The right tool for the job? Comparing an evidence accumulation and a naive strategy selection model of decision making. <i>Journal of Behavioral Decision Making</i> , 2011, 24, 456-481.	1.0	42
38	The wisdom of the crowd playing The Price Is Right. <i>Memory and Cognition</i> , 2011, 39, 914-923.	0.9	39
39	Sampling Assumptions in Inductive Generalization. <i>Cognitive Science</i> , 2012, 36, 187-223.	0.8	38
40	A Bayesian analysis of retention functions. <i>Journal of Mathematical Psychology</i> , 2004, 48, 310-321.	1.0	37
41	Decision Making and Confidence Given Uncertain Advice. <i>Cognitive Science</i> , 2006, 30, 1081-1095.	0.8	36
42	Time-varying boundaries for diffusion models of decision making and response time. <i>Frontiers in Psychology</i> , 2014, 5, 1364.	1.1	35
43	Discussion points for Bayesian inference. <i>Nature Human Behaviour</i> , 2020, 4, 561-563.	6.2	31
44	Title is missing!. <i>Nonlinear Dynamics, Psychology, and Life Sciences</i> , 2000, 4, 1-31.	0.2	30
45	The Perception of Minimal Structures: Performance on Open and Closed Versions of Visually Presented Euclidean Travelling Salesperson Problems. <i>Perception</i> , 2003, 32, 871-886.	0.5	29
46	A Cognitive Model for Aggregating People's Rankings. <i>PLoS ONE</i> , 2014, 9, e96431.	1.1	29
47	BayesSDT: Software for Bayesian inference with signal detection theory. <i>Behavior Research Methods</i> , 2008, 40, 450-456.	2.3	28
48	Inferring Expertise in Knowledge and Prediction Ranking Tasks. <i>Topics in Cognitive Science</i> , 2012, 4, 151-163.	1.1	27
49	p rep misestimates the probability of replication. <i>Psychonomic Bulletin and Review</i> , 2009, 16, 424-429.	1.4	26
50	Bayesian outcome-based strategy classification. <i>Behavior Research Methods</i> , 2016, 48, 29-41.	2.3	26
51	On the Complexity of Additive Clustering Models. <i>Journal of Mathematical Psychology</i> , 2001, 45, 131-148.	1.0	25
52	Intelligence and individual differences in performance on three types of visually presented optimisation problems. <i>Personality and Individual Differences</i> , 2004, 36, 1059-1071.	1.6	25
53	Exemplars, Prototypes, Similarities, and Rules in Category Representation: An Example of Hierarchical Bayesian Analysis. <i>Cognitive Science</i> , 2008, 32, 1403-1424.	0.8	25
54	Bayesian Inference for Correlations in the Presence of Measurement Error and Estimation Uncertainty. <i>Collabra: Psychology</i> , 2017, 3, .	0.9	25

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55	Avoiding the dangers of averaging across subjects when using multidimensional scaling. <i>Journal of Mathematical Psychology</i> , 2003, 47, 32-46.	1.0	24
56	A model-averaging approach to replication: The case of prep.. <i>Psychological Methods</i> , 2010, 15, 172-181.	2.7	24
57	A Bayesian Latent Group Analysis for Detecting Poor Effort in the Assessment of Malingering. <i>Archives of Clinical Neuropsychology</i> , 2012, 27, 453-465.	0.3	24
58	Visualizations of binary data: A comparative evaluation. <i>International Journal of Human Computer Studies</i> , 2003, 59, 569-602.	3.7	23
59	A general latent assignment approach for modeling psychological contaminants. <i>Journal of Mathematical Psychology</i> , 2010, 54, 352-362.	1.0	23
60	Modeling the adaptation of search termination in human decision making.. <i>Decision</i> , 2014, 1, 223-251.	0.4	22
61	Are Individual Differences in Performance on Perceptual and Cognitive Optimization Problems Determined by General Intelligence?. <i>Journal of Problem Solving</i> , 2006, 1, .	0.7	22
62	The aesthetic appeal of minimal structures: Judging the attractiveness of solutions to traveling salesperson problems. <i>Perception & Psychophysics</i> , 2006, 68, 32-42.	2.3	19
63	Sequential sampling models of human text classification. <i>Cognitive Science</i> , 2003, 27, 159-193.	0.8	18
64	Attention to internal face features in unfamiliar face matching. <i>British Journal of Psychology</i> , 2008, 99, 379-394.	1.2	18
65	Finding the features that represent stimuli. <i>Acta Psychologica</i> , 2010, 133, 283-295.	0.7	18
66	The importance of the convex hull for human performance on the traveling salesman problem: A comment on MacGregor and Ormerod (1996). <i>Perception & Psychophysics</i> , 2000, 62, 226-228.	2.3	17
67	Domain experts influence decision quality: Towards a robust method for their identification. <i>Journal of Petroleum Science and Engineering</i> , 2007, 57, 181-194.	2.1	17
68	A Hierarchical Bayesian Modeling Approach to Searching and Stopping in Multi-Attribute Judgment. <i>Cognitive Science</i> , 2014, 38, 1384-1405.	0.8	17
69	Applying one reason decision-making: the prioritisation of literature searches. <i>Australian Journal of Psychology</i> , 2002, 54, 137-143.	1.4	16
70	Modeling Human Performance in Restless Bandits with Particle Filters. <i>Journal of Problem Solving</i> , 2009, 2, .	0.7	16
71	Generating Additive Clustering Models with Minimal Stochastic Complexity. <i>Journal of Classification</i> , 2002, 19, 69-85.	1.2	15
72	Bayesian techniques for analyzing group differences in the Iowa Gambling Task: A case study of intuitive and deliberate decision-makers. <i>Psychonomic Bulletin and Review</i> , 2018, 25, 951-970.	1.4	15

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73	Bayesian inference using WBDDev: A tutorial for social scientists. Behavior Research Methods, 2010, 42, 884-897.	2.3	14
74	Understanding memory impairment with memory models and hierarchical Bayesian analysis. Journal of Mathematical Psychology, 2011, 55, 47-56.	1.0	14
75	An Excel sheet for inferring children's number-knower levels from give-N data. Behavior Research Methods, 2012, 44, 57-66.	2.3	14
76	Relating Memory to Functional Performance in Normal Aging to Dementia Using Hierarchical Bayesian Cognitive Processing Models. Alzheimer Disease and Associated Disorders, 2013, 27, 16-22.	0.6	14
77	A Bayesian approach to modeling group and individual differences in multidimensional scaling. Journal of Mathematical Psychology, 2016, 70, 35-44.	1.0	14
78	Pupil Dilation during Reward Anticipation Is Correlated to Depressive Symptom Load in Patients with Major Depressive Disorder. Brain Sciences, 2020, 10, 906.	1.1	14
79	A Simple Method for Generating Additive Clustering Models with Limited Complexity. Machine Learning, 2002, 49, 39-58.	3.4	13
80	Model selection for the rate problem: A comparison of significance testing, Bayesian, and minimum description length statistical inference. Journal of Mathematical Psychology, 2006, 50, 193-202.	1.0	13
81	An empirical evaluation of four data visualization techniques for displaying short news text similarities. International Journal of Human Computer Studies, 2007, 65, 931-944.	3.7	13
82	Global similarity accounts of embedded-category designs: Tests of the Global Matching models. Journal of Memory and Language, 2010, 63, 131-148.	1.1	13
83	Optimal experimental design for a class of bandit problems. Journal of Mathematical Psychology, 2010, 54, 499-508.	1.0	13
84	Bayesian methods applied to the generalized matching law. Journal of the Experimental Analysis of Behavior, 2019, 111, 252-273.	0.8	12
85	Understanding the complexity of simple decisions: Modeling multiple behaviors and switching strategies.. Decision, 2019, 6, 335-368.	0.4	12
86	: An agony in five Fits. Journal of Mathematical Psychology, 2009, 53, 195-202.	1.0	11
87	The effect of goals and environments on human performance in optimal stopping problems.. Decision, 2018, 5, 339-361.	0.4	11
88	An Extraction and Regularization Approach to Additive Clustering. Journal of Classification, 1999, 16, 255-281.	1.2	10
89	Detecting Strategies in Developmental Psychology. Computational Brain & Behavior, 2019, 2, 128-140.	0.9	10
90	An application of multinomial processing tree models and Bayesian methods to understanding memory impairment. Journal of Mathematical Psychology, 2020, 95, 102328.	1.0	10

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91	Thurstonian cognitive models for aggregating top-n lists.. Decision, 2017, 4, 87-101.	0.4	9
92	An Oil and Gas Decision-Making Taxonomy. , 2006, , .		8
93	Individual Differences in Optimization Problem Solving: Reconciling Conflicting Results. Journal of Problem Solving, 2008, 2, .	0.7	8
94	The Bayesian evaluation of categorization models: Comment on Wills and Pothos (2012).. Psychological Bulletin, 2012, 138, 1253-1258.	5.5	7
95	Modeling when people quit: Bayesian censored geometric models with hierarchical and latent-mixture extensions. Behavior Research Methods, 2018, 50, 406-415.	2.3	7
96	Modeling Strategy Switches in Multi-attribute Decision Making. Computational Brain & Behavior, 2021, 4, 148-163.	0.9	7
97	The Connectionist Construction of Psychological Spaces. Connection Science, 1997, 9, 323-352.	1.8	6
98	Neural Feature Abstraction from Judgments of Similarity. Neural Computation, 1998, 10, 1815-1830.	1.3	6
99	In praise of Ecumenical Bayes. Behavioral and Brain Sciences, 2011, 34, 206-207.	0.4	6
100	An assessment of email and spontaneous dialog visualizations. International Journal of Human Computer Studies, 2012, 70, 432-449.	3.7	6
101	New methods, measures, and models for analyzing memory impairment using triadic comparisons. Behavior Research Methods, 2016, 48, 1492-1507.	2.3	6
102	A Model-Based Approach to the Wisdom of the Crowd in Category Learning. Cognitive Science, 2018, 42, 861-883.	0.8	6
103	A simple and flexible Bayesian method for inferring step changes in cognition. Behavior Research Methods, 2019, 51, 948-960.	2.3	6
104	Never cross the path of a traveling salesman: The neural network generation of Halstead-Reitan trail making tests. Behavior Research Methods, 1998, 30, 423-431.	1.3	5
105	Testing take-the-best in new and changing environments. Behavior Research Methods, 2017, 49, 1420-1431.	2.3	5
106	Modeling Optimal Stopping in Changing Environments: a Case Study in Mate Selection. Computational Brain & Behavior, 2021, 4, 1-17.	0.9	5
107	A model-based analysis of the impairment of semantic memory. Psychonomic Bulletin and Review, 2021, 28, 1484-1494.	1.4	5
108	The Principle of Predictive Irrelevance or Why Intervals Should Not be Used for Model Comparison Featuring a Point Null Hypothesis. , 2020, , 111-129.		5

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109	Towards a dynamic connectionist model of memory. Behavioral and Brain Sciences, 1997, 20, 40-41.	0.4	4
110	Decisions and Uncertainty Management: Expertise Matters. , 2004, , .		4
111	Hierarchical Bayesian cognitive processing models to analyze clinical trial data. Alzheimer's and Dementia, 2013, 9, 422-428.	0.4	4
112	Correcting the SIMPLE model of free recall.. Psychological Review, 2013, 120, 293-296.	2.7	4
113	Postscript: Bayesian Statistical Inference in Psychology: Comment on Trafimow (2003).. Psychological Review, 2005, 112, 668-668.	2.7	3
114	Introduction to the special issue on formal modeling of semantic concepts. Acta Psychologica, 2010, 133, 213-215.	0.7	3
115	Quantum models of cognition as Orwellian newspeak. Behavioral and Brain Sciences, 2013, 36, 295-296.	0.4	3
116	Bayesian Inference for Multidimensional Scaling Representations with Psychologically Interpretable Metrics. Computational Brain & Behavior, 2020, 3, 322-340.	0.9	3
117	Model-Based Wisdom of the Crowd for Sequential Decision-Making Tasks. Cognitive Science, 2021, 45, e13011.	0.8	3
118	A Bayesian method for measuring risk propensity in the Balloon Analogue Risk Task. Behavior Research Methods, 2021, , 1.	2.3	3
119	Adaptive design optimization for a Mnemonic Similarity Task. Journal of Mathematical Psychology, 2022, 108, 102665.	1.0	3
120	Robust Diversity in Cognitive Science. Computational Brain & Behavior, 2019, 2, 271-276.	0.9	2
121	Neural Network and Tree Search Algorithms for the Generation of Path-Following (Trail-Making) Tests. Journal of Intelligent Systems, 1997, 7, .	1.2	1
122	The random effects prep continues to mispredict the probability of replication. Psychonomic Bulletin and Review, 2010, 17, 270-272.	1.4	1
123	A Model-Based Examination of Scale Effects in Student Evaluations of Teaching. AERA Open, 2021, 7, 233285842110400.	1.3	1
124	Fast Text Classification Using Sequential Sampling Processes. Lecture Notes in Computer Science, 2001, , 309-320.	1.0	1
125	Always look on the bright side of logic? Testing explanations of intuitive sensitivity to logic in perceptual tasks.. Journal of Experimental Psychology: Learning Memory and Cognition, 2022, 48, 1598-1617.	0.7	1
126	Framing effects and preference reversals in crowd-sourced ranked opinions.. Decision, 2022, 9, 153-171.	0.4	1

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127	Extending Bayesian concept learning to deal with representational complexity and adaptation. Behavioral and Brain Sciences, 2001, 24, 685-686.	0.4	0
128	R. Decker and W. Gaul, Eds., Classification and Information Processing at the Turn of the Millennium, Berlin: Springer-Verlag, 2000, 492 pp.. Journal of Classification, 2002, 19, 183-186.	1.2	0
129	Mathematical Psychology. , 2015, , 800-807.		0
130	A Model for Understanding Recognition Validity. Computational Brain & Behavior, 2019, 2, 49-63.	0.9	0
131	Violence in the Second Intifada: A Demonstration of Bayesian Generative Cognitive Modeling. Advances in Econometrics, 2019, , 65-90.	0.2	0
132	Using the weighted Kendall Distance to analyze rank data in psychology. The Quantitative Methods for Psychology, 2021, 17, 154-165.	0.6	0
133	Applying One Reason Decision-Making: The Prioritisation of Literature Searches. , 2011, , 736-745.		0
134	A Multinomial Processing Tree Model of the 2-back Working Memory Task. Computational Brain & Behavior, 0, , .	0.9	0