# Michael D Lee

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 135 papers | 7,064 citations | 101543 36 h-index | 88630 70 g-index |
| 140 all docs | 140 docs citations | 140 times ranked | 6170 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Statistical Evidence in Experimental Psychology. Perspectives on Psychological Science, 2011, 6, 291-298. | 9.0 | 728 |
| 2 | The fallacy of placing confidence in confidence intervals. Psychonomic Bulletin and Review, 2016, 23, 103-123. | 2.8 | 352 |
| 3 | How cognitive modeling can benefit from hierarchical Bayesian models. Journal of Mathematical Psychology, 2011, 55, 1-7. | 1.8 | 269 |
| 4 | A Survey of Model Evaluation Approaches With a Tutorial on Hierarchical Bayesian Methods. Cognitive Science, 2008, 32, 1248-1284. | 1.7 | 245 |
| 5 | Hierarchical diffusion models for two-choice response times.. Psychological Methods, 2011, 16, 44-62. | 3.5 | 224 |
| 6 | Bayesian Benefits for the Pragmatic Researcher. Current Directions in Psychological Science, 2016, 25, 169-176. | 5.3 | 220 |
| 7 | Unpacking the explorationâ€“exploitation tradeoff: A synthesis of human and animal literatures.. Decision, 2015, 2, 191-215. | 0.5 | 216 |
| 8 | Evidence accumulation in decision making: Unifying the â€œtake the bestâ€•and the â€œrationalâ€•models. Psychonomic Bulletin and Review, 2004, 11, 343-352. | 2.8 | 203 |
| 9 | A Bayesian analysis of human decision-making on bandit problems. Journal of Mathematical Psychology, 2009, 53, 168-179. | 1.8 | 178 |
| 10 | Three case studies in the Bayesian analysis of cognitive models. Psychonomic Bulletin and Review, 2008, 15, 1-15. | 2.8 | 131 |
| 11 | Levels of number knowledge during early childhood. Journal of Experimental Child Psychology, 2009, 103, 325-337. | 1.4 | 124 |
| 12 | Modeling individual differences using Dirichlet processes. Journal of Mathematical Psychology, 2006, 50, 101-122. | 1.8 | 122 |
| 13 | Bayesian statistical inference in psychology: Comment on Trafimow (2003).. Psychological Review, 2005, 112, 662-668. | 3.8 | 105 |
| 14 | The Wisdom of the Crowd in Combinatorial Problems. Cognitive Science, 2012, 36, 452-470. | 1.7 | 104 |
| 15 | Bayesian Versus Frequentist Inference. , 2008, , 181-207. | | 100 |
| 16 | Modeling individual differences in cognition. Psychonomic Bulletin and Review, 2005, 12, 605-621. | 2.8 | 99 |
| 17 | A tutorial on Bayes factor estimation with the product space method. Journal of Mathematical Psychology, 2011, 55, 331-347. | 1.8 | 79 |
| 18 | A Hierarchical Bayesian Model of Human Decision-Making on an Optimal Stopping Problem. Cognitive Science, 2006, 30, 1-26. | 1.7 | 78 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Determining the Dimensionality of Multidimensional Scaling Representations for Cognitive Modeling. Journal of Mathematical Psychology, 2001, 45, 149-166. | 1.8 | 72 |
| 20 | Human Performance on Visually Presented Traveling Salesperson Problems with Varying Numbers of Nodes. Journal of Problem Solving, 2006, 1, . | 0.7 | 67 |
| 21 | Emergent and structured cognition in Bayesian models: comment on Griffiths et al. and McClelland et al.. Trends in Cognitive Sciences, 2010, 14, 345-346. | 7.8 | 64 |
| 22 | Determining informative priors for cognitive models. Psychonomic Bulletin and Review, 2018, 25, 114-127. | 2.8 | 63 |
| 23 | Bayesian analysis of recognition memory: The case of the list-length effect. Journal of Memory and Language, 2008, 59, 361-376. | 2.1 | 62 |
| 24 | Human performance on visually presented Traveling Salesman problems. Psychological Research, 2001, 65, 34-45. | 1.7 | 61 |
| 25 | A Bayesian hierarchical mixture approach to individual differences: Case studies in selective attention and representation in category learning. Journal of Mathematical Psychology, 2014, 59, 132-150. | 1.8 | 61 |
| 26 | A power fallacy. Behavior Research Methods, 2015, 47, 913-917. | 4.0 | 61 |
| 27 | Using priors to formalize theory: Optimal attention and the generalized context model. Psychonomic Bulletin and Review, 2012, 19, 1047-1056. | 2.8 | 59 |
| 28 | Psychological models of human and optimal performance in bandit problems. Cognitive Systems Research, 2011, 12, 164-174. | 2.7 | 58 |
| 29 | Robust Modeling in Cognitive Science. Computational Brain & Behavior, 2019, 2, 141-153. | 1.7 | 58 |
| 30 | Dynamic Models of Simple Judgments: I. Properties of a Self-Regulating Accumulator Module. Nonlinear Dynamics, Psychology, and Life Sciences, 1998, 2, 169-194. | 0.2 | 57 |
| 31 | A Model of Knowerâ€Level Behavior in Number Concept Development. Cognitive Science, 2010, 34, 51-67. | 1.7 | 56 |
| 32 | Number-knower levels in young children: Insights from Bayesian modeling. Cognition, 2011, 120, 391-402. | 2.2 | 52 |
| 33 | Common and distinctive features in stimulus similarity: A modified version of the contrast model. Psychonomic Bulletin and Review, 2004, 11, 961-974. | 2.8 | 48 |
| 34 | Extending the ALCOVE model of category learning to featural stimulus domains. Psychonomic Bulletin and Review, 2002, 9, 43-58. | 2.8 | 47 |
| 35 | The roles of the convex hull and the number of potential intersections in performance on visually presented traveling salesperson problems. Memory and Cognition, 2003, 31, 1094-1104. | 1.6 | 44 |
| 36 | Choice of Models for the Analysis and Forecasting of Hospital Beds. Health Care Management Science, 2005, 8, 221-230. | 2.6 | 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. Journal of Behavioral Decision Making, 2011, 24, 456-481. | 1.7 | 42 |
| 38 | The wisdom of the crowd playing The Price Is Right. Memory and Cognition, 2011, 39, 914-923. | 1.6 | 39 |
| 39 | Sampling Assumptions in Inductive Generalization. Cognitive Science, 2012, 36, 187-223. | 1.7 | 38 |
| 40 | A Bayesian analysis of retention functions. Journal of Mathematical Psychology, 2004, 48, 310-321. | 1.8 | 37 |
| 41 | Decision Making and Confidence Given Uncertain Advice. Cognitive Science, 2006, 30, 1081-1095. | 1.7 | 36 |
| 42 | Time-varying boundaries for diffusion models of decision making and response time. Frontiers in Psychology, 2014, 5, 1364. | 2.1 | 35 |
| 43 | Discussion points for Bayesian inference. Nature Human Behaviour, 2020, 4, 561-563. | 12.0 | 31 |
| 44 | Title is missing!. Nonlinear Dynamics, Psychology, and Life Sciences, 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. Perception, 2003, 32, 871-886. | 1.2 | 29 |
| 46 | A Cognitive Model for Aggregating People's Rankings. PLoS ONE, 2014, 9, e96431. | 2.5 | 29 |
| 47 | BayesSDT: Software for Bayesian inference with signal detection theory. Behavior Research Methods, 2008, 40, 450-456. | 4.0 | 28 |
| 48 | Inferring Expertise in Knowledge and Prediction Ranking Tasks. Topics in Cognitive Science, 2012, 4, 151-163. | 1.9 | 27 |
| 49 | p rep misestimates the probability of replication. Psychonomic Bulletin and Review, 2009, 16, 424-429. | 2.8 | 26 |
| 50 | Bayesian outcome-based strategy classification. Behavior Research Methods, 2016, 48, 29-41. | 4.0 | 26 |
| 51 | On the Complexity of Additive Clustering Models. Journal of Mathematical Psychology, 2001, 45, 131-148. | 1.8 | 25 |
| 52 | Intelligence and individual differences in performance on three types of visually presented optimisation problems. Personality and Individual Differences, 2004, 36, 1059-1071. | 2.9 | 25 |
| 53 | Exemplars, Prototypes, Similarities, and Rules in Category Representation: An Example of Hierarchical Bayesian Analysis. Cognitive Science, 2008, 32, 1403-1424. | 1.7 | 25 |
| 54 | Bayesian Inference for Correlations in the Presence of Measurement Error and Estimation Uncertainty. Collabra: Psychology, 2017, 3, . | 1.8 | 25 |

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| 55 | Avoiding the dangers of averaging across subjects when using multidimensional scaling. Journal of Mathematical Psychology, 2003, 47, 32-46. | 1.8 | 24 |
| 56 | A model-averaging approach to replication: The case of prep.. Psychological Methods, 2010, 15, 172-181. | 3.5 | 24 |
| 57 | A Bayesian Latent Group Analysis for Detecting Poor Effort in the Assessment of Malingering. Archives of Clinical Neuropsychology, 2012, 27, 453-465. | 0.5 | 24 |
| 58 | Visualizations of binary data: A comparative evaluation. International Journal of Human Computer Studies, 2003, 59, 569-602. | 5.6 | 23 |
| 59 | A general latent assignment approach for modeling psychological contaminants. Journal of Mathematical Psychology, 2010, 54, 352-362. | 1.8 | 23 |
| 60 | Modeling the adaptation of search termination in human decision making.. Decision, 2014, 1, 223-251. | 0.5 | 22 |
| 61 | Are Individual Differences in Performance on Perceptual and Cognitive Optimization Problems Determined by General Intelligence?. Journal of Problem Solving, 2006, 1, . | 0.7 | 22 |
| 62 | The aesthetic appeal of minimal structures: Judging the attractiveness of solutions to traveling salesperson problems. Perception & Psychophysics, 2006, 68, 32-42. | 2.3 | 19 |
| 63 | Sequential sampling models of human text classification. Cognitive Science, 2003, 27, 159-193. | 1.7 | 18 |
| 64 | Attention to internal face features in unfamiliar face matching. British Journal of Psychology, 2008, 99, 379-394. | 2.3 | 18 |
| 65 | Finding the features that represent stimuli. Acta Psychologica, 2010, 133, 283-295. | 1.5 | 18 |
| 66 | The importance of the convex hull for human performance on the traveling salesman problem: A comment on MacGregor and Ormerod (1996). Perception & Psychophysics, 2000, 62, 226-228. | 2.3 | 17 |
| 67 | Domain experts influence decision quality: Towards a robust method for their identification. Journal of Petroleum Science and Engineering, 2007, 57, 181-194. | 4.2 | 17 |
| 68 | A Hierarchical Bayesian Modeling Approach to Searching and Stopping in Multiâ€Attribute Judgment. Cognitive Science, 2014, 38, 1384-1405. | 1.7 | 17 |
| 69 | Applying one reason decision-making: the prioritisation of literature searches. Australian Journal of Psychology, 2002, 54, 137-143. | 2.8 | 16 |
| 70 | Modeling Human Performance in Restless Bandits with Particle Filters. Journal of Problem Solving, 2009, 2, . | 0.7 | 16 |
| 71 | Generating Additive Clustering Models with Minimal Stochastic Complexity. Journal of Classification, 2002, 19, 69-85. | 2.2 | 15 |
| 72 | Bayesian techniques for analyzing group differences in the Iowa Gambling Task: A case study of intuitive and deliberate decision-makers. Psychonomic Bulletin and Review, 2018, 25, 951-970. | 2.8 | 15 |

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| 73 | Bayesian inference using WBDev: A tutorial for social scientists. Behavior Research Methods, 2010, 42, 884-897. | 4.0 | 14 |
| 74 | Understanding memory impairment with memory models and hierarchical Bayesian analysis. Journal of Mathematical Psychology, 2011, 55, 47-56. | 1.8 | 14 |
| 75 | An Excel sheet for inferring childrenâ€™s number-knower levels from give-N data. Behavior Research Methods, 2012, 44, 57-66. | 4.0 | 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. | 1.3 | 14 |
| 77 | A Bayesian approach to modeling group and individual differences in multidimensional scaling. Journal of Mathematical Psychology, 2016, 70, 35-44. | 1.8 | 14 |
| 78 | Pupil Dilation during Reward Anticipation Is Correlated to Depressive Symptom Load in Patients with Major Depressive Disorder. Brain Sciences, 2020, 10, 906. | 2.3 | 14 |
| 79 | A Simple Method for Generating Additive Clustering Models with Limited Complexity. Machine Learning, 2002, 49, 39-58. | 5.4 | 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. | 1.8 | 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. | 5.6 | 13 |
| 82 | Global similarity accounts of embedded-category designs: Tests of the Global Matching models. Journal of Memory and Language, 2010, 63, 131-148. | 2.1 | 13 |
| 83 | Optimal experimental design for a class of bandit problems. Journal of Mathematical Psychology, 2010, 54, 499-508. | 1.8 | 13 |
| 84 | Bayesian methods applied to the generalized matching law. Journal of the Experimental Analysis of Behavior, 2019, 111, 252-273. | 1.1 | 12 |
| 85 | Understanding the complexity of simple decisions: Modeling multiple behaviors and switching strategies.. Decision, 2019, 6, 335-368. | 0.5 | 12 |
| 86 | : An agony in five Fits. Journal of Mathematical Psychology, 2009, 53, 195-202. | 1.8 | 11 |
| 87 | The effect of goals and environments on human performance in optimal stopping problems.. Decision, 2018, 5, 339-361. | 0.5 | 11 |
| 88 | An Extraction and Regularization Approach to Additive Clustering. Journal of Classification, 1999, 16, 255-281. | 2.2 | 10 |
| 89 | Detecting Strategies in Developmental Psychology. Computational Brain & Behavior, 2019, 2, 128-140. | 1.7 | 10 |
| 90 | An application of multinomial processing tree models and Bayesian methods to understanding memory impairment. Journal of Mathematical Psychology, 2020, 95, 102328. | 1.8 | 10 |

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| 91 | Thurstonian cognitive models for aggregating top-n lists.. Decision, 2017, 4, 87-101. | 0.5 | 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. | 6.1 | 7 |
| 95 | Modeling when people quit: Bayesian censored geometric models with hierarchical and latent-mixture extensions. Behavior Research Methods, 2018, 50, 406-415. | 4.0 | 7 |
| 96 | Modeling Strategy Switches in Multi-attribute Decision Making. Computational Brain & Behavior, 2021, 4, 148-163. | 1.7 | 7 |
| 97 | The Connectionist Construction of Psychological Spaces. Connection Science, 1997, 9, 323-352. | 3.0 | 6 |
| 98 | Neural Feature Abstraction from Judgments of Similarity. Neural Computation, 1998, 10, 1815-1830. | 2.2 | 6 |
| 99 | In praise of Ecumenical Bayes. Behavioral and Brain Sciences, 2011, 34, 206-207. | 0.7 | 6 |
| 100 | An assessment of email and spontaneous dialog visualizations. International Journal of Human Computer Studies, 2012, 70, 432-449. | 5.6 | 6 |
| 101 | New methods, measures, and models for analyzing memory impairment using triadic comparisons. Behavior Research Methods, 2016, 48, 1492-1507. | 4.0 | 6 |
| 102 | A Modelâ€Based Approach to the Wisdom of the Crowd in Category Learning. Cognitive Science, 2018, 42, 861-883. | 1.7 | 6 |
| 103 | A simple and flexible Bayesian method for inferring step changes in cognition. Behavior Research Methods, 2019, 51, 948-960. | 4.0 | 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. | 4.0 | 5 |
| 106 | Modeling Optimal Stopping in Changing Environments: a Case Study in Mate Selection. Computational Brain & Behavior, 2021, 4, 1-17. | 1.7 | 5 |
| 107 | A model-based analysis of the impairment of semantic memory. Psychonomic Bulletin and Review, 2021, 28, 1484-1494. | 2.8 | 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. | 0.7 | 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. | 0.8 | 4 |
| 112 | Correcting the SIMPLE model of free recall.. Psychological Review, 2013, 120, 293-296. | 3.8 | 4 |
| 113 | Postscript: Bayesian Statistical Inference in Psychology: Comment on Trafimow (2003).. Psychological Review, 2005, 112, 668-668. | 3.8 | 3 |
| 114 | Introduction to the special issue on formal modeling of semantic concepts. Acta Psychologica, 2010, 133, 213-215. | 1.5 | 3 |
| 115 | Quantum models of cognition as Orwellian newspeak. Behavioral and Brain Sciences, 2013, 36, 295-296. | 0.7 | 3 |
| 116 | Bayesian Inference for Multidimensional Scaling Representations with Psychologically Interpretable Metrics. Computational Brain & Behavior, 2020, 3, 322-340. | 1.7 | 3 |
| 117 | Modelâ€Based Wisdom of the Crowd for Sequential Decisionâ€Making Tasks. Cognitive Science, 2021, 45, e13011. | 1.7 | 3 |
| 118 | A Bayesian method for measuring risk propensity in the Balloon Analogue Risk Task. Behavior Research Methods, 2021, , 1. | 4.0 | 3 |
| 119 | Adaptive design optimization for a Mnemonic Similarity Task. Journal of Mathematical Psychology, 2022, 108, 102665. | 1.8 | 3 |
| 120 | Robust Diversity in Cognitive Science. Computational Brain & Behavior, 2019, 2, 271-276. | 1.7 | 2 |
| 121 | Neural Network and Tree Search Algorithms for the Generation of Path-Following (Trail-Making) Tests. Journal of Intelligent Systems, 1997, 7, . | 1.6 | 1 |
| 122 | The random effects prep continues to mispredict the probability of replication. Psychonomic Bulletin and Review, 2010, 17, 270-272. | 2.8 | 1 |
| 123 | A Model-Based Examination of Scale Effects in Student Evaluations of Teaching. AERA Open, 2021, 7, 233285842110400. | 2.1 | 1 |
| 124 | Fast Text Classification Using Sequential Sampling Processes. Lecture Notes in Computer Science, 2001, , 309-320. | 1.3 | 1 |
| 125 | Sequential sampling models of human text classification. Cognitive Science, 2003, 27, 159-193. | 1.7 | 1 |
| 126 | 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. | 0.9 | 1 |

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| 127 | Framing effects and preference reversals in crowd-sourced ranked opinions.. Decision, 2022, 9, 153-171. | 0.5 | 1 |
| 128 | Extending Bayesian concept learning to deal with representational complexity and adaptation. Behavioral and Brain Sciences, 2001, 24, 685-686. | 0.7 | 0 |
| 129 | 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. | 2.2 | 0 |
| 130 | Mathematical Psychology. , 2015, , 800-807. | | 0 |
| 131 | A Model for Understanding Recognition Validity. Computational Brain & Behavior, 2019, 2, 49-63. | 1.7 | 0 |
| 132 | Violence in the Second Intifada: A Demonstration of Bayesian Generative Cognitive Modeling. Advances in Econometrics, 2019, , 65-90. | 0.3 | 0 |
| 133 | Using the weighted Kendall Distance to analyze rank data in psychology. The Quantitative Methods for Psychology, 2021, 17, 154-165. | 0.9 | 0 |
| 134 | Applying One Reason Decision-Making: The Prioritisation of Literature Searches. , 2011, , 736-745. | | 0 |
| 135 | A Multinomial Processing Tree Model of the 2-back Working Memory Task. Computational Brain & Behavior, 0, , . | 1.7 | 0 |