

Scott A Sisson

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,835
citations

201674

27
h-index

138484

58
g-index

99
all docs

99
docs citations

99
times ranked

4321
citing authors

#	ARTICLE	IF	CITATIONS
1	Sequential Monte Carlo without likelihoods. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1760-1765.	7.1	575
2	Likelihood-Based Inference for Max-Stable Processes. Journal of the American Statistical Association, 2010, 105, 263-277.	3.1	280
3	A fully probabilistic approach to extreme rainfall modeling. Journal of Hydrology, 2003, 273, 35-50.	5.4	241
4	A Comparative Review of Dimension Reduction Methods in Approximate Bayesian Computation. Statistical Science, 2013, 28, .	2.8	232
5	Quantifying the dependence between extreme rainfall and storm surge in the coastal zone. Journal of Hydrology, 2013, 505, 172-187.	5.4	154
6	In defence of model-based inference in phylogeography. Molecular Ecology, 2010, 19, 436-446.	3.9	141
7	Detection of non-stationarity in precipitation extremes using a max-stable process model. Journal of Hydrology, 2011, 406, 119-128.	5.4	139
8	The epidemiological fitness cost of drug resistance in <i>Mycobacterium tuberculosis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14711-14715.	7.1	131
9	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. Water Resources Research, 2014, 50, 2050-2071.	4.2	127
10	Rapid shifts in dispersal behavior on an expanding range edge. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13452-13456.	7.1	121
11	Using Approximate Bayesian Computation to Estimate Tuberculosis Transmission Parameters From Genotype Data. Genetics, 2006, 173, 1511-1520.	2.9	115
12	Transdimensional Markov Chains. Journal of the American Statistical Association, 2005, 100, 1077-1089.	3.1	112
13	Inference for Stereological Extremes. Journal of the American Statistical Association, 2007, 102, 84-92.	3.1	96
14	Development of a formal likelihood function for improved Bayesian inference of ephemeral catchments. Water Resources Research, 2010, 46, .	4.2	83
15	Bayesian calibration and uncertainty analysis of hydrological models: A comparison of adaptive Metropolis and sequential Monte Carlo samplers. Water Resources Research, 2011, 47, .	4.2	49
16	Developing state and transition models of floodplain vegetation dynamics as a tool for conservation decision-making: a case study of the Macquarie Marshes Ramsar wetland. Journal of Applied Ecology, 2015, 52, 654-664.	4.0	46
17	Smaller projected increases in 20-year temperature returns over Australia in skill-selected climate models. Geophysical Research Letters, 2009, 36, .	4.0	41
18	On sequential Monte Carlo, partial rejection control and approximate Bayesian computation. Statistics and Computing, 2012, 22, 1209-1222.	1.5	41

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19	Adaptive optimal scaling of Metropolis-Hastings algorithms using the Robbins-Monro process. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 5098-5111.	1.0	40
20	A case for a reassessment of the risks of extreme hydrological hazards in the Caribbean. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 20, 296-306.	4.0	39
21	Ensemble of ARIMA: combining parametric and bootstrapping technique for traffic flow prediction. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 1552-1573.	2.0	39
22	Efficient hydrological model parameter optimization with Sequential Monte Carlo sampling. <i>Environmental Modelling and Software</i> , 2012, 38, 283-295.	4.5	38
23	Exploring the relationship between Aboriginal population indices and fire in Australia over the last 20,000 years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 432, 49-57.	2.3	38
24	Diagnostic tools for approximate Bayesian computation using the coverage property. <i>Australian and New Zealand Journal of Statistics</i> , 2014, 56, 309-329.	0.9	37
25	Likelihood-free Bayesian inference for α -stable models. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 3743-3756.	1.2	36
26	Systematic differences in future 20 year temperature extremes in AR4 model projections over Australia as a function of model skill. <i>International Journal of Climatology</i> , 2013, 33, 1153-1167.	3.5	36
27	Approximate Bayesian Computation and Bayesian Linear Analysis: Toward High-Dimensional ABC. <i>Journal of Computational and Graphical Statistics</i> , 2014, 23, 65-86.	1.7	31
28	Does Amazonian deforestation cause global effects; can we be sure?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5567-5584.	3.3	29
29	Approximate Bayesian computation via regression density estimation. <i>Stat</i> , 2013, 2, 34-48.	0.4	26
30	Likelihood-Free MCMC. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2011, , 313-336.	0.4	26
31	Increasing dependence on foreign water resources? An assessment of trends in global virtual water flows using a self-organizing time map. <i>Ecological Informatics</i> , 2015, 26, 192-202.	5.2	25
32	Variational Bayes with synthetic likelihood. <i>Statistics and Computing</i> , 2018, 28, 971-988.	1.5	25
33	Extending approximate Bayesian computation methods to high dimensions via a Gaussian copula model. <i>Computational Statistics and Data Analysis</i> , 2017, 106, 77-89.	1.2	24
34	Predicting seagrass decline due to cumulative stressors. <i>Environmental Modelling and Software</i> , 2020, 130, 104717.	4.5	24
35	Informing management decisions for ecological networks, using dynamic models calibrated to noisy time-series data. <i>Ecology Letters</i> , 2020, 23, 607-619.	6.4	24
36	Estimation of distance related probability of animal movements between holdings and implications for disease spread modeling. <i>Preventive Veterinary Medicine</i> , 2009, 91, 85-94.	1.9	23

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37	Modelling pathogen log ₁₀ reduction values achieved by activated sludge treatment using naïve and semi naïve Bayes network models. <i>Water Research</i> , 2015, 85, 304-315.	11.3	23
38	The Sensitivity of Daily Temperature Variability and Extremes to Dataset Choice. <i>Journal of Climate</i> , 2018, 31, 1337-1359.	3.2	23
39	Bayesian belief network modelling of chlorine disinfection for human pathogenic viruses in municipal wastewater. <i>Water Research</i> , 2017, 109, 144-154.	11.3	22
40	Estimating animal movement contacts between holdings of different production types. <i>Preventive Veterinary Medicine</i> , 2010, 95, 23-31.	1.9	21
41	A Model-Based Bayesian Estimation of the Rate of Evolution of VNTR Loci in <i>Mycobacterium tuberculosis</i> . <i>PLoS Computational Biology</i> , 2012, 8, e1002573.	3.2	19
42	Evaluating extreme risks in invasion ecology: learning from banking compliance. <i>Diversity and Distributions</i> , 2008, 14, 581-591.	4.1	18
43	Specifying a hierarchical mixture of experts for hydrologic modeling: Gating function variable selection. <i>Water Resources Research</i> , 2013, 49, 2926-2939.	4.2	18
44	Automating and evaluating reversible jump MCMC proposal distributions. <i>Statistics and Computing</i> , 2009, 19, 409-421.	1.5	17
45	Exact vs. Approximate Computation: Reconciling Different Estimates of <i>Mycobacterium tuberculosis</i> Epidemiological Parameters. <i>Genetics</i> , 2014, 196, 1227-1230.	2.9	17
46	Ensemble optimisation, multiple constraints and overconfidence: a case study with future Australian precipitation change. <i>Climate Dynamics</i> , 2019, 53, 1581-1596.	3.8	17
47	Trends in methamphetamine use, markets and harms in Australia, 2003–2019. <i>Drug and Alcohol Review</i> , 2022, 41, 1041-1052.	2.1	17
48	Modeling Extreme Risks in Ecology. <i>Risk Analysis</i> , 2012, 32, 1956-1966.	2.7	16
49	Robust evaluation of performance monitoring options for ozone disinfection in water recycling using Bayesian analysis. <i>Water Research</i> , 2017, 124, 605-617.	11.3	16
50	Virus removal by ultrafiltration: Understanding long-term performance change by application of Bayesian analysis. <i>Water Research</i> , 2017, 122, 269-279.	11.3	16
51	Likelihood-free inference in high dimensions with synthetic likelihood. <i>Computational Statistics and Data Analysis</i> , 2018, 128, 271-291.	1.2	16
52	Trends in cocaine use, markets and harms in Australia, 2003–2019. <i>Drug and Alcohol Review</i> , 2021, 40, 946-956.	2.1	15
53	Constructing likelihood functions for interval-valued random variables. <i>Scandinavian Journal of Statistics</i> , 2020, 47, 1-35.	1.4	14
54	Bayesian analysis of animal movements related to factors at herd and between herd levels: Implications for disease spread modeling. <i>Preventive Veterinary Medicine</i> , 2011, 98, 230-242.	1.9	12

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55	Reversible Jump MCMC. Chapman & Hall/CRC Interdisciplinary Statistics Series, 2011, , 67-92.	0.4	11
56	Recalibration: A post-processing method for approximate Bayesian computation. Computational Statistics and Data Analysis, 2018, 126, 53-66.	1.2	11
57	Image Denoising Based on Nonlocal Bayesian Singular Value Thresholding and Stein's Unbiased Risk Estimator. IEEE Transactions on Image Processing, 2019, 28, 4899-4911.	9.8	11
58	A distance-based diagnostic for trans-dimensional Markov chains. Statistics and Computing, 2007, 17, 357-367.	1.5	10
59	Composite likelihood methods for histogram-valued random variables. Statistics and Computing, 2020, 30, 1459-1477.	1.5	10
60	Overview of ABC. , 2018, , 3-54.		10
61	ABC Samplers. , 2018, , 87-123.		10
62	A spectral and Bayesian approach for analysis of fluctuations and synchrony in ecological datasets. Methods in Ecology and Evolution, 2012, 3, 1019-1027.	5.2	9
63	Likelihood-free approximate Gibbs sampling. Statistics and Computing, 2020, 30, 1057-1073.	1.5	9
64	Bayesian Nonnegative Matrix Factorization With Dirichlet Process Mixtures. IEEE Transactions on Signal Processing, 2020, 68, 3860-3870.	5.3	9
65	Bayesian Symbol Detection in Wireless Relay Networks via Likelihood-Free Inference. IEEE Transactions on Signal Processing, 2010, 58, 5206-5218.	5.3	8
66	Functional regression approximate Bayesian computation for Gaussian process density estimation. Computational Statistics and Data Analysis, 2016, 103, 229-241.	1.2	8
67	Models for Extremal Dependence Derived from Skew-Symmetric Families. Scandinavian Journal of Statistics, 2017, 44, 21-45.	1.4	8
68	Bayesian Inference, Monte Carlo Sampling and Operational Risk.. SSRN Electronic Journal, 2006, , .	0.4	7
69	Bayesian threshold selection for extremal models using measures of surprise. Computational Statistics and Data Analysis, 2015, 85, 84-99.	1.2	7
70	Efficient Bayesian Synthetic Likelihood With Whitening Transformations. Journal of Computational and Graphical Statistics, 2022, 31, 50-63.	1.7	7
71	Simultaneous adjustment of bias and coverage probabilities for confidence intervals. Computational Statistics and Data Analysis, 2014, 70, 35-44.	1.2	6
72	Logistic Regression Models for Aggregated Data. Journal of Computational and Graphical Statistics, 2021, 30, 1049-1067.	1.7	6

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73	High-Dimensional ABC. , 2018, , 211-241.		6
74	Towards automating model selection for a mark-recapture-recovery analysis. Journal of the Royal Statistical Society Series C: Applied Statistics, 2009, 58, 247-266.	1.0	5
75	On Bayesian Curve Fitting via Auxiliary Variables. Journal of Computational and Graphical Statistics, 2010, 19, 626-644.	1.7	5
76	High-dimensional inference using the extremal skew-t process. Extremes, 2021, 24, 653-685.	1.0	5
77	Estimating global species richness using symbolic data meta-analysis. Ecography, 2022, 2022, .	4.5	5
78	Modelling Dependence Uncertainty in the Extremes of Markov Chains. Extremes, 2003, 6, 283-300.	1.0	4
79	Bayesian Point Estimation of Quantitative Trait Loci. Biometrics, 2004, 60, 60-68.	1.4	4
80	High affinity extremes in combinatorial libraries and repertoires. Journal of Theoretical Biology, 2009, 261, 260-265.	1.7	4
81	Tail density estimation for exploratory data analysis using kernel methods. Journal of Nonparametric Statistics, 2019, 31, 144-174.	0.9	4
82	Estimation and uncertainty quantification for extreme quantile regions. Extremes, 2021, 24, 349-375.	1.0	4
83	A dimension range representation (DRR) measure for self-organizing maps. Pattern Recognition, 2016, 53, 276-286.	8.1	3
84	Nonlinear manifold representation in natural systems: The SOMersault. Environmental Modelling and Software, 2017, 89, 61-76.	4.5	3
85	Bayesian Nonparametric Space Partitions: A Survey. , 2021, , .		3
86	Modeling total predation to avoid perverse outcomes from cat control in a data-poor island ecosystem. Conservation Biology, 2022, 36, .	4.7	3
87	Evaluating the Extent of North Atlantic Deep Water and the Mean Atlantic $\delta^{13}C$ From Statistical Reconstructions. Paleoceanography and Paleoclimatology, 2019, 34, 1022-1036.	2.9	2
88	Recurrent Dirichlet Belief Networks for interpretable Dynamic Relational Data Modelling. , 2020, , .		2
89	Likelihood-Based Inference for Modelling Packet Transit From Thinned Flow Summaries. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 571-583.	2.8	2
90	Principles of Data Mining. Information Retrieval, 2003, 6, 275-277.	2.0	1

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91	A Note on Bayesian Analyses of Capture-Recapture Data with Perfect Recaptures. Communications in Statistics - Theory and Methods, 2006, 35, 53-62.	1.0	1
92	Patterns and comparisons of human-induced changes in river flood impacts in cities. Hydrology and Earth System Sciences, 2018, 22, 1793-1810.	4.9	1
93	Vector Operations for Accelerating Expensive Bayesian Computations - A Tutorial Guide. Bayesian Analysis, 2021, -1, .	3.0	1
94	Inferences on the Acquisition of Multi-Drug Resistance in Mycobacterium Tuberculosis Using Molecular Epidemiological Data. , 2018, , 481-511.		1
95	Smoothing graphons for modelling exchangeable relational data. Machine Learning, 0, , 1.	5.4	0
96	Dynamic quantile function models. Quantitative Finance, 0, , 1-27.	1.7	0