

Scott A Sisson

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

3,835
citations

201575

27
h-index

138417

58
g-index

99
all docs

99
docs citations

99
times ranked

4321
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Bayesian Synthetic Likelihood With Whitening Transformations. <i>Journal of Computational and Graphical Statistics</i> , 2022, 31, 50-63.	0.9	7
2	Estimating global species richness using symbolic data meta-analysis. <i>Ecography</i> , 2022, 2022, .	2.1	5
3	Modeling total predation to avoid perverse outcomes from cat control in a data-poor island ecosystem. <i>Conservation Biology</i> , 2022, 36, .	2.4	3
4	Trends in methamphetamine use, markets and harms in Australia, 2003–2019. <i>Drug and Alcohol Review</i> , 2022, 41, 1041-1052.	1.1	17
5	Likelihood-Based Inference for Modelling Packet Transit From Thinned Flow Summaries. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , 2022, 8, 571-583.	1.6	2
6	High-dimensional inference using the extremal skew-t process. <i>Extremes</i> , 2021, 24, 653-685.	0.5	5
7	Estimation and uncertainty quantification for extreme quantile regions. <i>Extremes</i> , 2021, 24, 349-375.	0.5	4
8	Vector Operations for Accelerating Expensive Bayesian Computations – A Tutorial Guide. <i>Bayesian Analysis</i> , 2021, -1, .	1.6	1
9	Trends in cocaine use, markets and harms in Australia, 2003–2019. <i>Drug and Alcohol Review</i> , 2021, 40, 946-956.	1.1	15
10	Logistic Regression Models for Aggregated Data. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 1049-1067.	0.9	6
11	Bayesian Nonparametric Space Partitions: A Survey. , 2021, , .		3
12	Constructing likelihood functions for interval-valued random variables. <i>Scandinavian Journal of Statistics</i> , 2020, 47, 1-35.	0.9	14
13	Composite likelihood methods for histogram-valued random variables. <i>Statistics and Computing</i> , 2020, 30, 1459-1477.	0.8	10
14	Ensemble of ARIMA: combining parametric and bootstrapping technique for traffic flow prediction. <i>Transportmetrica A: Transport Science</i> , 2020, 16, 1552-1573.	1.3	39
15	Predicting seagrass decline due to cumulative stressors. <i>Environmental Modelling and Software</i> , 2020, 130, 104717.	1.9	24
16	Likelihood-free approximate Gibbs sampling. <i>Statistics and Computing</i> , 2020, 30, 1057-1073.	0.8	9
17	Bayesian Nonnegative Matrix Factorization With Dirichlet Process Mixtures. <i>IEEE Transactions on Signal Processing</i> , 2020, 68, 3860-3870.	3.2	9
18	Informing management decisions for ecological networks, using dynamic models calibrated to noisy time-series data. <i>Ecology Letters</i> , 2020, 23, 607-619.	3.0	24

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19	Recurrent Dirichlet Belief Networks for interpretable Dynamic Relational Data Modelling. , 2020, , .		2
20	Evaluating the Extent of North Atlantic Deep Water and the Mean Atlantic $\delta^{13}C$ From Statistical Reconstructions. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1022-1036.	1.3	2
21	Image Denoising Based on Nonlocal Bayesian Singular Value Thresholding and Stein's Unbiased Risk Estimator. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 4899-4911.	6.0	11
22	Ensemble optimisation, multiple constraints and overconfidence: a case study with future Australian precipitation change. <i>Climate Dynamics</i> , 2019, 53, 1581-1596.	1.7	17
23	Tail density estimation for exploratory data analysis using kernel methods. <i>Journal of Nonparametric Statistics</i> , 2019, 31, 144-174.	0.4	4
24	Variational Bayes with synthetic likelihood. <i>Statistics and Computing</i> , 2018, 28, 971-988.	0.8	25
25	The Sensitivity of Daily Temperature Variability and Extremes to Dataset Choice. <i>Journal of Climate</i> , 2018, 31, 1337-1359.	1.2	23
26	Patterns and comparisons of human-induced changes in river flood impacts in cities. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1793-1810.	1.9	1
27	Likelihood-free inference in high dimensions with synthetic likelihood. <i>Computational Statistics and Data Analysis</i> , 2018, 128, 271-291.	0.7	16
28	Recalibration: A post-processing method for approximate Bayesian computation. <i>Computational Statistics and Data Analysis</i> , 2018, 126, 53-66.	0.7	11
29	Overview of ABC. , 2018, , 3-54.		10
30	ABC Samplers. , 2018, , 87-123.		10
31	High-Dimensional ABC. , 2018, , 211-241.		6
32	Inferences on the Acquisition of Multi-Drug Resistance in Mycobacterium Tuberculosis Using Molecular Epidemiological Data. , 2018, , 481-511.		1
33	Nonlinear manifold representation in natural systems: The SOMersault. <i>Environmental Modelling and Software</i> , 2017, 89, 61-76.	1.9	3
34	Bayesian belief network modelling of chlorine disinfection for human pathogenic viruses in municipal wastewater. <i>Water Research</i> , 2017, 109, 144-154.	5.3	22
35	Robust evaluation of performance monitoring options for ozone disinfection in water recycling using Bayesian analysis. <i>Water Research</i> , 2017, 124, 605-617.	5.3	16
36	Virus removal by ultrafiltration: Understanding long-term performance change by application of Bayesian analysis. <i>Water Research</i> , 2017, 122, 269-279.	5.3	16

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37	Models for Extremal Dependence Derived from Skew-symmetric Families. <i>Scandinavian Journal of Statistics</i> , 2017, 44, 21-45.	0.9	8
38	Extending approximate Bayesian computation methods to high dimensions via a Gaussian copula model. <i>Computational Statistics and Data Analysis</i> , 2017, 106, 77-89.	0.7	24
39	Does Amazonian deforestation cause global effects; can we be sure?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 5567-5584.	1.2	29
40	Functional regression approximate Bayesian computation for Gaussian process density estimation. <i>Computational Statistics and Data Analysis</i> , 2016, 103, 229-241.	0.7	8
41	Adaptive optimal scaling of Metropolis-Hastings algorithms using the Robbins-Monro process. <i>Communications in Statistics - Theory and Methods</i> , 2016, 45, 5098-5111.	0.6	40
42	A dimension range representation (DRR) measure for self-organizing maps. <i>Pattern Recognition</i> , 2016, 53, 276-286.	5.1	3
43	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. <i>Journal of Applied Ecology</i> , 2015, 52, 654-664.	1.9	46
44	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.	1.0	38
45	Modelling pathogen log10 reduction values achieved by activated sludge treatment using naïve and semi naïve Bayes network models. <i>Water Research</i> , 2015, 85, 304-315.	5.3	23
46	Bayesian threshold selection for extremal models using measures of surprise. <i>Computational Statistics and Data Analysis</i> , 2015, 85, 84-99.	0.7	7
47	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.	2.3	25
48	Approximate Bayesian Computation and Bayesian Linear Analysis: Toward High-Dimensional ABC. <i>Journal of Computational and Graphical Statistics</i> , 2014, 23, 65-86.	0.9	31
49	Diagnostic tools for approximate Bayesian computation using the coverage property. <i>Australian and New Zealand Journal of Statistics</i> , 2014, 56, 309-329.	0.4	37
50	Modeling dependence between extreme rainfall and storm surge to estimate coastal flooding risk. <i>Water Resources Research</i> , 2014, 50, 2050-2071.	1.7	127
51	Simultaneous adjustment of bias and coverage probabilities for confidence intervals. <i>Computational Statistics and Data Analysis</i> , 2014, 70, 35-44.	0.7	6
52	Exact vs. Approximate Computation: Reconciling Different Estimates of Mycobacterium tuberculosis Epidemiological Parameters. <i>Genetics</i> , 2014, 196, 1227-1230.	1.2	17
53	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.	1.5	36
54	Quantifying the dependence between extreme rainfall and storm surge in the coastal zone. <i>Journal of Hydrology</i> , 2013, 505, 172-187.	2.3	154

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55	Rapid shifts in dispersal behavior on an expanding range edge. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13452-13456.	3.3	121
56	Approximate Bayesian computation via regression density estimation. <i>Stat</i> , 2013, 2, 34-48.	0.3	26
57	A Comparative Review of Dimension Reduction Methods in Approximate Bayesian Computation. <i>Statistical Science</i> , 2013, 28, .	1.6	232
58	Specifying a hierarchical mixture of experts for hydrologic modeling: Gating function variable selection. <i>Water Resources Research</i> , 2013, 49, 2926-2939.	1.7	18
59	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.	1.5	19
60	A spectral and Bayesian approach for analysis of fluctuations and synchrony in ecological datasets. <i>Methods in Ecology and Evolution</i> , 2012, 3, 1019-1027.	2.2	9
61	On sequential Monte Carlo, partial rejection control and approximate Bayesian computation. <i>Statistics and Computing</i> , 2012, 22, 1209-1222.	0.8	41
62	Efficient hydrological model parameter optimization with Sequential Monte Carlo sampling. <i>Environmental Modelling and Software</i> , 2012, 38, 283-295.	1.9	38
63	Likelihood-free Bayesian inference for α -stable models. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 3743-3756.	0.7	36
64	Modeling Extreme Risks in Ecology. <i>Risk Analysis</i> , 2012, 32, 1956-1966.	1.5	16
65	Bayesian calibration and uncertainty analysis of hydrological models: A comparison of adaptive Metropolis and sequential Monte Carlo samplers. <i>Water Resources Research</i> , 2011, 47, .	1.7	49
66	Reversible Jump MCMC. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2011, , 67-92.	0.4	11
67	Detection of non-stationarity in precipitation extremes using a max-stable process model. <i>Journal of Hydrology</i> , 2011, 406, 119-128.	2.3	139
68	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.	0.7	12
69	Likelihood-Free MCMC. <i>Chapman & Hall/CRC Interdisciplinary Statistics Series</i> , 2011, , 313-336.	0.4	26
70	Estimating animal movement contacts between holdings of different production types. <i>Preventive Veterinary Medicine</i> , 2010, 95, 23-31.	0.7	21
71	In defence of model-based inference in phylogeography. <i>Molecular Ecology</i> , 2010, 19, 436-446.	2.0	141
72	On Bayesian Curve Fitting via Auxiliary Variables. <i>Journal of Computational and Graphical Statistics</i> , 2010, 19, 626-644.	0.9	5

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73	Likelihood-Based Inference for Max-Stable Processes. Journal of the American Statistical Association, 2010, 105, 263-277.	1.8	280
74	Bayesian Symbol Detection in Wireless Relay Networks via Likelihood-Free Inference. IEEE Transactions on Signal Processing, 2010, 58, 5206-5218.	3.2	8
75	Development of a formal likelihood function for improved Bayesian inference of ephemeral catchments. Water Resources Research, 2010, 46, .	1.7	83
76	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.	3.3	131
77	Estimation of distance related probability of animal movements between holdings and implications for disease spread modeling. Preventive Veterinary Medicine, 2009, 91, 85-94.	0.7	23
78	High affinity extremes in combinatorial libraries and repertoires. Journal of Theoretical Biology, 2009, 261, 260-265.	0.8	4
79	Automating and evaluating reversible jump MCMC proposal distributions. Statistics and Computing, 2009, 19, 409-421.	0.8	17
80	Towards automating model selection for a mark-recapture-recovery analysis. Journal of the Royal Statistical Society Series C: Applied Statistics, 2009, 58, 247-266.	0.5	5
81	Smaller projected increases in 20-year temperature returns over Australia in selected climate models. Geophysical Research Letters, 2009, 36, .	1.5	41
82	Evaluating extreme risks in invasion ecology: learning from banking compliance. Diversity and Distributions, 2008, 14, 581-591.	1.9	18
83	Sequential Monte Carlo without likelihoods. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1760-1765.	3.3	575
84	Inference for Stereological Extremes. Journal of the American Statistical Association, 2007, 102, 84-92.	1.8	96
85	A distance-based diagnostic for trans-dimensional Markov chains. Statistics and Computing, 2007, 17, 357-367.	0.8	10
86	Bayesian Inference, Monte Carlo Sampling and Operational Risk.. SSRN Electronic Journal, 2006, , .	0.4	7
87	A case for a reassessment of the risks of extreme hydrological hazards in the Caribbean. Stochastic Environmental Research and Risk Assessment, 2006, 20, 296-306.	1.9	39
88	Using Approximate Bayesian Computation to Estimate Tuberculosis Transmission Parameters From Genotype Data. Genetics, 2006, 173, 1511-1520.	1.2	115
89	A Note on Bayesian Analyses of Capture-Recapture Data with Perfect Recaptures. Communications in Statistics - Theory and Methods, 2006, 35, 53-62.	0.6	1
90	Transdimensional Markov Chains. Journal of the American Statistical Association, 2005, 100, 1077-1089.	1.8	112

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91	Bayesian Point Estimation of Quantitative Trait Loci. <i>Biometrics</i> , 2004, 60, 60-68.	0.8	4
92	Principles of Data Mining. <i>Information Retrieval</i> , 2003, 6, 275-277.	1.6	1
93	Modelling Dependence Uncertainty in the Extremes of Markov Chains. <i>Extremes</i> , 2003, 6, 283-300.	0.5	4
94	A fully probabilistic approach to extreme rainfall modeling. <i>Journal of Hydrology</i> , 2003, 273, 35-50.	2.3	241
95	Smoothing graphons for modelling exchangeable relational data. <i>Machine Learning</i> , 0, , 1.	3.4	0
96	Dynamic quantile function models. <i>Quantitative Finance</i> , 0, , 1-27.	0.9	0