David R Bickel

List of Publications by Year
in descending order

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74	1,049	567281 15	501196 28
papers	citations	h-index	g-index

77	77	77	953
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interval estimation, point estimation, and null hypothesis significance testing calibrated by an estimated posterior probability of the null hypothesis. Communications in Statistics - Theory and Methods, 2023, 52, 763-787.	1.0	4
2	Maximum entropy derived and generalized under idempotent probability to address Bayes-frequentist uncertainty and model revision uncertainty: An information-theoretic semantics for possibility theory. Fuzzy Sets and Systems, 2023, 453, 192-212.	2.7	2
3	Confidence distributions and empirical Bayes posterior distributions unified as distributions of evidential support. Communications in Statistics - Theory and Methods, 2022, 51, 3142-3163.	1.0	9
4	Propagating clade and model uncertainty to confidence intervals of divergence times and branch lengths. Molecular Phylogenetics and Evolution, 2022, 167, 107357.	2.7	6
5	Coherent checking and updating of Bayesian models without specifying the model space: A decision-theoretic semantics for possibility theory. International Journal of Approximate Reasoning, 2022, 142, 81-93.	3.3	5
6	Correcting false discovery rates for their bias toward false positives. Communications in Statistics Part B: Simulation and Computation, 2021, 50, 3699-3713.	1.2	8
7	Null Hypothesis Significance Testing Defended and Calibrated by Bayesian Model Checking. American Statistician, 2021, 75, 249-255.	1.6	10
8	Null Hypothesis Significance Testing Interpreted and Calibrated by Estimating Probabilities of Sign Errors: A Bayes-Frequentist Continuum. American Statistician, 2021, 75, 104-112.	1.6	7
9	The sufficiency of the evidence, the relevancy of the evidence, and quantifying both with a single number. Statistical Methods and Applications, 2021, 30, 1157.	1.2	1
10	Confidence intervals, significance values, maximum likelihood estimates, etc. sharpened into Occamâ€™s razors. Communications in Statistics - Theory and Methods, 2020, 49, 2703-2712.	1.0	6
11	Departing from Bayesian inference toward minimaxity to the extent that the posterior distribution is unreliable. Statistics and Probability Letters, 2020, 164, 108802.	0.7	4
12	Testing prediction algorithms as null hypotheses: Application to assessing the performance of deep neural networks. Stat, 2020, 9, e270.	0.4	5
13	An Explanatory Rationale for Priors Sharpened Into Occamâ€™s Razors. Bayesian Analysis, 2020, 15, .	3.0	4
14	Incorporating prior knowledge about genetic variants into the analysis of genetic association data: An empirical Bayes approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2019, 17, 1-1.	3.0	5
15	Model fusion and multiple testing in the likelihood paradigm: shrinkage and evidence supporting a point null hypothesis. Statistics, 2019, 53, 1187-1209.	0.6	3
16	Self-consistent confidence sets and tests of composite hypotheses applicable to restricted parameters. Bernoulli, 2019, 25, .	1.3	11
17	Sharpen statistical significance: Evidence thresholds and Bayes factors sharpened into Occam's razor. Stat, 2019, 8, e215.	0.4	10
18	Reporting Bayes factors or probabilities to decision makers of unknown loss functions. Communications in Statistics - Theory and Methods, 2019, 48, 2163-2174.	1.0	5

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19	Bayesian revision of a prior given prior-data conflict, expert opinion, or a similar insight: a large-deviation approach. Statistics, 2018, 52, 552-570.	0.6	7
20	A note on fiducial model averaging as an alternative to checking Bayesian and frequentist models. Communications in Statistics - Theory and Methods, 2018, 47, 3125-3137.	1.0	6
21	Estimating the local false discovery rate via a bootstrap solution to the reference class problem. PLoS ONE, 2018, 13, e0206902.	2.5	2
22	Confidence distributions applied to propagating uncertainty to inference based on estimating the local false discovery rate: A fiducial continuum from confidence sets to empirical Bayes set estimates as the number of comparisons increases. Communications in Statistics - Theory and Methods, 2017, 46, 10788-10799.	1.0	6
23	The performance of a new local false discovery rate method on tests of association between coronary artery disease (CAD) and genome-wide genetic variants. PLoS ONE, 2017, 12, e0185174.	2.5	5
24	Blending Bayesian and frequentist methods according to the precision of prior information with applications to hypothesis testing. Statistical Methods and Applications, 2015, 24, 523-546.	1.2	8
25	Inference after checking multiple Bayesian models for data conflict and applications to mitigating the influence of rejected priors. International Journal of Approximate Reasoning, 2015, 66, 53-72.	3.3	11
26	Smallâ€scale Inference: Empirical Bayes and Confidence Methods for as Few as a Single Comparison. International Statistical Review, 2014, 82, 457-476.	1.9	8
27	A prior-free framework of coherent inference and its derivation of simple shrinkage estimators. Journal of Statistical Planning and Inference, 2014, 145, 204-221.	0.6	16
28	Parametric Estimation of the Local False Discovery Rate for Identifying Genetic Associations. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 98-108.	3.0	10
29	Empirical Bayes estimation of posterior probabilities of enrichment: A comparative study of five estimators of the local false discovery rate. BMC Bioinformatics, 2013, 14, 87.	2.6	17
30	Muscle uncoupling protein 3 overexpression mimics endurance training and reduces circulating biomarkers of incomplete Î²â€oxidation. FASEB Journal, 2013, 27, 4213-4225.	0.5	43
31	Pseudo-Likelihood, Explanatory Power, and Bayes's Theorem [Comment on â€œA Likelihood Paradigm for Clinical Trialsâ€]. Journal of Statistical Theory and Practice, 2013, 7, 178-182.	0.5	4
32	Simple estimators of false discovery rates given as few as one or two p-values without strong parametric assumptions. Statistical Applications in Genetics and Molecular Biology, 2013, 12, 529-43.	0.6	13
33	Minimaxâ€Optimal Strength of Statistical Evidence for a Composite Alternative Hypothesis. International Statistical Review, 2013, 81, 188-206.	1.9	9
34	Empirical Bayes Interval Estimates that are Conditionally Equal to Unadjusted Confidence Intervals or to Default Prior Credibility Intervals. Statistical Applications in Genetics and Molecular Biology, 2012, 11, Article 7.	0.6	10
35	Estimators of the local false discovery rate designed for small numbers of tests. Statistical Applications in Genetics and Molecular Biology, 2012, 11, 4.	0.6	15
36	Controlling the degree of caution in statistical inference with the Bayesian and frequentist approaches as opposite extremes. Electronic Journal of Statistics, 2012, 6, .	0.7	10

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37	Game-theoretic probability combination with applications to resolving conflicts between statistical methods. International Journal of Approximate Reasoning, 2012, 53, 880-891.	3.3	16
38	Coherent Frequentism: A Decision Theory Based on Confidence Sets. Communications in Statistics - Theory and Methods, 2012, 41, 1478-1496.	1.0	15
39	A frequentist framework of inductive reasoning. Sankhya A, 2012, 74, 141-169.	0.8	7
40	Estimating the Null Distribution to Adjust Observed Confidence Levels for Genome-Scale Screening. Biometrics, 2011, 67, 363-370.	1.4	15
41	A predictive approach to measuring the strength of statistical evidence for single and multiple comparisons. Canadian Journal of Statistics, 2011, 39, 610-631.	0.9	13
42	Validation of differential gene expression algorithms: Application comparing fold-change estimation to hypothesis testing. BMC Bioinformatics, 2010, 11, 63.	2.6	15
43	Shrinkage Estimation of Effect Sizes as an Alternative to Hypothesis Testing Followed by Estimation in High-Dimensional Biology: Applications to Differential Gene Expression. Statistical Applications in Genetics and Molecular Biology, 2010, 9, Article23.	0.6	7
44	Long-Chain Fatty Acid Combustion Rate Is Associated with Unique Metabolite Profiles in Skeletal Muscle Mitochondria. PLoS ONE, 2010, 5, e9834.	2.5	24
45	Gene network reconstruction from transcriptional dynamics under kinetic model uncertainty: a case for the second derivative. Bioinformatics, 2009, 25, 772-779.	4.1	5
46	Genome-wide allele-specific expression analysis using Massively Parallel Signature Sequencing (MPSSâ„¢) Reveals cis- and trans-effects on gene expression in maize hybrid meristem tissue. Plant Molecular Biology, 2008, 66, 551-563.	3.9	110
47	Correcting the Estimated Level of Differential Expression for Gene Selection Bias: Application to a Microarray Study. Statistical Applications in Genetics and Molecular Biology, 2008, 7, Article10.	0.6	3
48	Cluster and Classification Techniques for the Biosciences. By AlanÂHÂ Fielding. Cambridge and New York: Cambridge University Press. $120.00 (hardcover); $55.00 (paper). xii + 246 p; ill.; index. ISBN: 0â€521â€85281â€1 (hc); 0â€521â€61800â€2 (pb). 2007.. Quarterly Review of Biology, 2007, 82, 410-410.	0.1	0
49	On a fast, robust estimator of the mode: Comparisons to other robust estimators with applications. Computational Statistics and Data Analysis, 2006, 50, 3500-3530.	1.2	82
50	Probabilities of spurious connections in gene networks: application to expression time series. Bioinformatics, 2005, 21, 1121-1128.	4.1	22
51	Error-Rate and Decision-Theoretic Methods of Multiple Testing: Which Genes Have High Objective Probabilities of Differential Expression?. Statistical Applications in Genetics and Molecular Biology, 2004, 3, 1-20.	0.6	18
52	Degrees of differential gene expression: detecting biologically significant expression differences and estimating their magnitudes. Bioinformatics, 2004, 20, 682-688.	4.1	51
53	Comparison of methods of temperature measurement in swine. Laboratory Animals, 2004, 38, 297-306.	1.0	26
54	Robust and efficient estimation of the mode of continuous data: the mode as a viable measure of central tendency. Journal of Statistical Computation and Simulation, 2003, 73, 899-912.	1.2	35

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55	Robust cluster analysis of microarray gene expression data with the number of clusters determined biologically. Bioinformatics, 2003, 19, 818-824.	4.1	66
56	Smoothing Before Estimating Uncertainty, Scaling and Intermittency: Application to Short Heart Rate Signals. Fractals, 2003, 11, 245-252.	3.7	0
57	Generalized entropy and multifractality of time-series: relationship between order and intermittency. Chaos, Solitons and Fractals, 2002, 13, 491-497.	5.1	13
58	Robust estimators of the mode and skewness of continuous data. Computational Statistics and Data Analysis, 2002, 39, 153-163.	1.2	65
59	Asymptotic distribution of time-series intermittency estimates: applications to economic and clinical data. Computational Statistics and Data Analysis, 2001, 37, 419-431.	1.2	5
60	Implications of Fluctuations in Substitution Rates: Impact on the Uncertainty of Branch Lengths and on Relative-Rate Tests. Journal of Molecular Evolution, 2000, 50, 381-390.	1.8	14
61	REST QUANTIFIED BY A FRACTAL DIMENSION OF MOVEMENT EVENTS: A BIOMEDICAL APPLICATION OF INTERMITTENCY ESTIMATION. Fractals, 2000, 08, 1-6.	3.7	3
62	Fractional-difference stochastic model of evolutionary substitutions in DNA sequences. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 256, 188-196.	2.1	6
63	Simple estimation of intermittency in multifractal stochastic processes: biomedical applications. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 262, 251-256.	2.1	14
64	Heart rate variability of preterm neonates quantified by energy entropy. Australian Journal of Cancer Nursing, 1999, 1, 103-111.	1.6	1
65	Estimating the intermittency of point processes with applications to human activity and viral DNA. Physica A: Statistical Mechanics and Its Applications, 1999, 265, 634-648.	2.6	16
66	Electronic ion energy loss calculations on the basis of the binary encounter approximation. Journal of Nuclear Materials, 1999, 264, 133-140.	2.7	1
67	Molecular Evolution Modeled as a Fractal Renewal Point Process in Agreement with the Dispersion of Substitutions in Mammalian Genes. Journal of Molecular Evolution, 1998, 47, 551-556.	1.8	12
68	Molecular evolution modeled as a fractal statistical process. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 544-552.	2.6	10
69	Detection of anomalous diffusion using confidence intervals of the scaling exponent with application to preterm neonatal heart rate variability. Physical Review E, 1998, 58, 6440-6448.	2.1	9
70	Multiplicative and Fractal Process in DNA Evolution. Fractals, 1998, 06, 211-217.	3.7	10
71	Molecular evolution modeled as a fractal Poisson process in agreement with mammalian sequence comparisons. Molecular Biology and Evolution, 1998, 15, 967-977.	8.9	18
72	Moderating probability distributions for unrepresented uncertainty: Application to sentiment analysis via deep learning. Communications in Statistics - Theory and Methods, 0, , 1-15.	1.0	3

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73	Model averages sharpened into Occamâ€™s razors: Deep learning enhanced by RÃ©nyi entropy. Communications in Statistics - Theory and Methods, 0, , 1-13.	1.0	0
74	Genomics Data Analysis. , 0, , .		11