Giles Hooker

List of Publications by Year
in descending order

60 papers	2,850 citations	430874 18 h-index	254184 43 g-index
60 all docs	60 docs citations	60 times ranked	3572 citing authors

#	Article	IF	Citations
1	Functional Data Analysis with R and MATLAB. , 2009, , .		483
2	Equilibrium Free Energies from Nonequilibrium Measurements Using Maximum-Likelihood Methods. Physical Review Letters, 2003, 91, 140601.	7.8	419
3	Data-intensive Science: A New Paradigm for Biodiversity Studies. BioScience, 2009, 59, 613-620.	4.9	279
4	Accurate intelligible models with pairwise interactions. , 2013, , .		204
5	A practical guide to selecting models for exploration, inference, and prediction in ecology. Ecology, 2021, 102, e03336.	3.2	170
6	An expanded modern coexistence theory for empirical applications. Ecology Letters, 2019, 22, 3-18.	6.4	147
7	Generalized Functional ANOVA Diagnostics for High-Dimensional Functions of Dependent Variables. Journal of Computational and Graphical Statistics, 2007, 16, 709-732.	1.7	125
8	Functional Generalized Additive Models. Journal of Computational and Graphical Statistics, 2014, 23, 249-269.	1.7	106
9	A newly discovered role of evolution in previously published consumer–resource dynamics. Ecology Letters, 2014, 17, 915-923.	6.4	91
10	Unrestricted permutation forces extrapolation: variable importance requires at least one more model, or there is no free variable importance. Statistics and Computing, 2021, 31, 1.	1.5	80
11	Assessing photodamage in live-cell STED microscopy. Nature Methods, 2018, 15, 755-756.	19.0	79
12	Distill-and-Compare. , 2018, , .		69
13	Linking demography with drivers: climate and competition. Methods in Ecology and Evolution, 2016, 7, 171-183.	5.2	60
14	Parameterizing state–space models for infectious disease dynamics by generalized profiling: measles in Ontario. Journal of the Royal Society Interface, 2011, 8, 961-974.	3.4	50
15	Dynamic Data Analysis. Springer Series in Statistics, 2017, , .	0.9	38
16	Induction of CXCR3- and CCR5-associated chemokines during acute hepatitis C virus infection. Journal of Hepatology, 2011, 55, 545-553.	3.7	34
17	Paradoxical Results in Multidimensional Item Response Theory. Psychometrika, 2009, 74, 419-442.	2.1	31
18	Functional principal component analysis of spatially correlated data. Statistics and Computing, 2017, 27, 1639-1654.	1.5	28

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19	Truncated Linear Models for Functional Data. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2016, 78, 637-653.	2.2	26
20	PCA of waveforms and functional PCA: A primer for biomechanics. Journal of Biomechanics, 2021, 116, 110106.	2.1	25
21	Eco-Evolutionary Dynamics in a Three-Species Food Web with Intraguild Predation. Advances in Ecological Research, 2014, 50, 41-73.	2.7	22
22	Sizeâ€byâ€environment interactions: a neglected dimension of species' responses to environmental variation. Ecology Letters, 2018, 21, 1757-1770.	6.4	21
23	Bayesian model robustness via disparities. Test, 2014, 23, 556-584.	1.1	19
24	Forcing Function Diagnostics for Nonlinear Dynamics. Biometrics, 2009, 65, 928-936.	1.4	18
25	Formal Hypothesis Tests for Additive Structure in Random Forests. Journal of Computational and Graphical Statistics, 2017, 26, 589-597.	1.7	18
26	Technical Comment on Pande <i>et al</i>. (2020): Why invasion analysis is important for understanding coexistence. Ecology Letters, 2020, 23, 1721-1724.	6.4	17
27	Weak interspecific interactions in a sagebrush steppe? Conflicting evidence from observations and experiments. Ecology, 2018, 99, 1621-1632.	3.2	16
28	Functional factor analysis for periodic remote sensing data. Annals of Applied Statistics, 2012, 6, .	1.1	14
29	Restricted likelihood ratio tests for linearity in scalar-on-function regression. Statistics and Computing, 2015, 25, 997-1008.	1.5	14
30	Boosting Random Forests to Reduce Bias; One-Step Boosted Forest and Its Variance Estimate. Journal of Computational and Graphical Statistics, 2021, 30, 493-502.	1.7	14
31	On Separable Tests, Correlated Priors, and Paradoxical Results inÂMultidimensional Item Response Theory. Psychometrika, 2010, 75, 694-707.	2.1	13
32	Paradoxical Results and Item Bundles. Psychometrika, 2010, 75, 249-271.	2.1	12
33	Palmitoylated Proteins in <i>Plasmodium falciparum</i>â€Infected Erythrocytes: Investigation with Click Chemistry and Metabolic Labeling. BioEssays, 2020, 42, e1900145.	2.5	12
34	Time and Chance: Using Age Partitioning to Understand How Luck Drives Variation in Reproductive Success. American Naturalist, 2021, 197, E110-E128.	2.1	12
35	Prevalence and Magnitude of Paradoxical Results in Multidimensional Item Response Theory. Journal of Educational and Behavioral Statistics, 2010, 35, 744-761.	1.7	11
36	Goodness of fit in nonlinear dynamics: Misspecified rates or misspecified states?. Annals of Applied Statistics, 2015, 9, .	1.1	9

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37	Bootstrap bias corrections for ensemble methods. Statistics and Computing, 2018, 28, 77-86.	1.5	8
38	Cardiomyocyte calcium cycling in a naturally occurring German shepherd dog model of inherited ventricular arrhythmia and sudden cardiac death. Journal of Veterinary Cardiology, 2013, 15, 5-14.	0.9	7
39	Functional convolution models. Statistical Modelling, 2014, 14, 315-335.	1.1	7
40	Parameter estimation in differential equation models with constrained states. Journal of Chemometrics, 2012, 26, 322-332.	1.3	5
41	Control Theory and Experimental Design in Diffusion Processes. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 234-264.	2.0	5
42	Experimental Design for Partially Observed Markov Decision Processes. SIAM-ASA Journal on Uncertainty Quantification, 2018, 6, 549-567.	2.0	4
43	Prediction-based regularization using data augmented regression. Statistics and Computing, 2012, 22, 237-249.	1.5	3
44	Bayesian covariance estimation and inference in latent Gaussian process models. Statistical Methodology, 2014, 18, 79-100.	0.5	3
45	Sparse inverse covariance estimation for high-throughput microRNA sequencing data in the Poisson log-normal graphical model. Journal of Statistical Computation and Simulation, 2019, 89, 3105-3117.	1.2	3
46	Selecting the derivative of a functional covariate in scalar-on-function regression. Statistics and Computing, 2022, 32, 1.	1.5	3
47	Comments on: Dynamic relations for sparsely sampled Gaussian processes. Test, 2010, 19, 50-53.	1.1	2
48	Learned-loss boosting. Computational Statistics and Data Analysis, 2012, 56, 3935-3944.	1.2	2
49	Comments on: A random forest guided tour. Test, 2016, 25, 254-260.	1.1	2
50	Consistency, efficiency and robustness of conditional disparity methods. Bernoulli, 2016, 22, .	1.3	2
51	Combining Functional Data Registration and Factor Analysis. Journal of Computational and Graphical Statistics, 2017, 26, 296-305.	1.7	2
52	A critical comparison of integral projection and matrix projection models for demographic analysis: Comment. Ecology, 2022, 103, e3605.	3.2	2
53	Maximal autocorrelation functions in functional data analysis. Statistics and Computing, 2016, 26, 945-950.	1.5	1
54	Asymptotic Properties for Methods Combining the Minimum Hellinger Distance Estimate and the Bayesian Nonparametric Density Estimate. Entropy, 2018, 20, 955.	2.2	1

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55	Local quadratic estimation of the curvature in a functional single index model. Scandinavian Journal of Statistics, 2020, 47, 1307-1338.	1.4	1
56	The Jensen effect and functional single index models: Estimating the ecological implications of nonlinear reaction norms. Annals of Applied Statistics, 2020, 14, .	1.1	1
57	Timing observations of diffusions. Statistics and Computing, 2020, 30, 405-417.	1.5	0
58	Generalized Single Index Models and Jensen Effects on Reproduction and Survival. Journal of Agricultural, Biological, and Environmental Statistics, 2021, 26, 492-512.	1.4	0
59	An expectation maximization algorithm for high-dimensional model selection for the Ising model with misclassified states*. Journal of Applied Statistics, 0, , 1-20.	1.3	0
60	Dr Gibbons and Colleagues Reply. Journal of Clinical Psychiatry, 2014, 75, 85-86.	2.2	0