

Giles Hooker

List of Publications by Year in descending order

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Version: 2024-02-01

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	A critical comparison of integral projection and matrix projection models for demographic analysis: Comment. <i>Ecology</i> , 2022, 103, e3605.	3.2	2
2	Selecting the derivative of a functional covariate in scalar-on-function regression. <i>Statistics and Computing</i> , 2022, 32, 1.	1.5	3
3	PCA of waveforms and functional PCA: A primer for biomechanics. <i>Journal of Biomechanics</i> , 2021, 116, 110106.	2.1	25
4	Boosting Random Forests to Reduce Bias; One-Step Boosted Forest and Its Variance Estimate. <i>Journal of Computational and Graphical Statistics</i> , 2021, 30, 493-502.	1.7	14
5	Time and Chance: Using Age Partitioning to Understand How Luck Drives Variation in Reproductive Success. <i>American Naturalist</i> , 2021, 197, E110-E128.	2.1	12
6	Generalized Single Index Models and Jensen Effects on Reproduction and Survival. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2021, 26, 492-512.	1.4	0
7	A practical guide to selecting models for exploration, inference, and prediction in ecology. <i>Ecology</i> , 2021, 102, e03336.	3.2	170
8	Unrestricted permutation forces extrapolation: variable importance requires at least one more model, or there is no free variable importance. <i>Statistics and Computing</i> , 2021, 31, 1.	1.5	80
9	Timing observations of diffusions. <i>Statistics and Computing</i> , 2020, 30, 405-417.	1.5	0
10	Local quadratic estimation of the curvature in a functional single index model. <i>Scandinavian Journal of Statistics</i> , 2020, 47, 1307-1338.	1.4	1
11	Technical Comment on Pande <i>et al</i> . (2020): Why invasion analysis is important for understanding coexistence. <i>Ecology Letters</i> , 2020, 23, 1721-1724.	6.4	17
12	Palmitoylated Proteins in <i>Plasmodium falciparum</i> -Infected Erythrocytes: Investigation with Click Chemistry and Metabolic Labeling. <i>BioEssays</i> , 2020, 42, e1900145.	2.5	12
13	The Jensen effect and functional single index models: Estimating the ecological implications of nonlinear reaction norms. <i>Annals of Applied Statistics</i> , 2020, 14, .	1.1	1
14	Sparse inverse covariance estimation for high-throughput microRNA sequencing data in the Poisson log-normal graphical model. <i>Journal of Statistical Computation and Simulation</i> , 2019, 89, 3105-3117.	1.2	3
15	An expanded modern coexistence theory for empirical applications. <i>Ecology Letters</i> , 2019, 22, 3-18.	6.4	147
16	Experimental Design for Partially Observed Markov Decision Processes. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2018, 6, 549-567.	2.0	4
17	Weak interspecific interactions in a sagebrush steppe? Conflicting evidence from observations and experiments. <i>Ecology</i> , 2018, 99, 1621-1632.	3.2	16
18	Bootstrap bias corrections for ensemble methods. <i>Statistics and Computing</i> , 2018, 28, 77-86.	1.5	8

#	ARTICLE	IF	CITATIONS
19	Asymptotic Properties for Methods Combining the Minimum Hellinger Distance Estimate and the Bayesian Nonparametric Density Estimate. <i>Entropy</i> , 2018, 20, 955.	2.2	1
20	Distill-and-Compare. , 2018, , .		69
21	Assessing photodamage in live-cell STED microscopy. <i>Nature Methods</i> , 2018, 15, 755-756.	19.0	79
22	Sizeâ€œbyâ€œenvironment interactions: a neglected dimension of species' responses to environmental variation. <i>Ecology Letters</i> , 2018, 21, 1757-1770.	6.4	21
23	Combining Functional Data Registration and Factor Analysis. <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 296-305.	1.7	2
24	Functional principal component analysis of spatially correlated data. <i>Statistics and Computing</i> , 2017, 27, 1639-1654.	1.5	28
25	Dynamic Data Analysis. <i>Springer Series in Statistics</i> , 2017, , .	0.9	38
26	Formal Hypothesis Tests for Additive Structure in Random Forests. <i>Journal of Computational and Graphical Statistics</i> , 2017, 26, 589-597.	1.7	18
27	Truncated Linear Models for Functional Data. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2016, 78, 637-653.	2.2	26
28	Comments on: A random forest guided tour. <i>Test</i> , 2016, 25, 254-260.	1.1	2
29	Maximal autocorrelation functions in functional data analysis. <i>Statistics and Computing</i> , 2016, 26, 945-950.	1.5	1
30	Consistency, efficiency and robustness of conditional disparity methods. <i>Bernoulli</i> , 2016, 22, .	1.3	2
31	Linking demography with drivers: climate and competition. <i>Methods in Ecology and Evolution</i> , 2016, 7, 171-183.	5.2	60
32	Goodness of fit in nonlinear dynamics: Misspecified rates or misspecified states?. <i>Annals of Applied Statistics</i> , 2015, 9, .	1.1	9
33	Control Theory and Experimental Design in Diffusion Processes. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2015, 3, 234-264.	2.0	5
34	Restricted likelihood ratio tests for linearity in scalar-on-function regression. <i>Statistics and Computing</i> , 2015, 25, 997-1008.	1.5	14
35	Functional convolution models. <i>Statistical Modelling</i> , 2014, 14, 315-335.	1.1	7
36	Eco-Evolutionary Dynamics in a Three-Species Food Web with Intraguild Predation. <i>Advances in Ecological Research</i> , 2014, 50, 41-73.	2.7	22

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37	Bayesian model robustness via disparities. <i>Test</i> , 2014, 23, 556-584.	1.1	19
38	A newly discovered role of evolution in previously published consumer–resource dynamics. <i>Ecology Letters</i> , 2014, 17, 915-923.	6.4	91
39	Bayesian covariance estimation and inference in latent Gaussian process models. <i>Statistical Methodology</i> , 2014, 18, 79-100.	0.5	3
40	Functional Generalized Additive Models. <i>Journal of Computational and Graphical Statistics</i> , 2014, 23, 249-269.	1.7	106
41	Dr Gibbons and Colleagues Reply. <i>Journal of Clinical Psychiatry</i> , 2014, 75, 85-86.	2.2	0
42	Accurate intelligible models with pairwise interactions. , 2013, , .		204
43	Cardiomyocyte calcium cycling in a naturally occurring German shepherd dog model of inherited ventricular arrhythmia and sudden cardiac death. <i>Journal of Veterinary Cardiology</i> , 2013, 15, 5-14.	0.9	7
44	Functional factor analysis for periodic remote sensing data. <i>Annals of Applied Statistics</i> , 2012, 6, .	1.1	14
45	Parameter estimation in differential equation models with constrained states. <i>Journal of Chemometrics</i> , 2012, 26, 322-332.	1.3	5
46	Learned-loss boosting. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 3935-3944.	1.2	2
47	Prediction-based regularization using data augmented regression. <i>Statistics and Computing</i> , 2012, 22, 237-249.	1.5	3
48	Induction of CXCR3- and CCR5-associated chemokines during acute hepatitis C virus infection. <i>Journal of Hepatology</i> , 2011, 55, 545-553.	3.7	34
49	Parameterizing state–space models for infectious disease dynamics by generalized profiling: measles in Ontario. <i>Journal of the Royal Society Interface</i> , 2011, 8, 961-974.	3.4	50
50	Paradoxical Results and Item Bundles. <i>Psychometrika</i> , 2010, 75, 249-271.	2.1	12
51	On Separable Tests, Correlated Priors, and Paradoxical Results in Multidimensional Item Response Theory. <i>Psychometrika</i> , 2010, 75, 694-707.	2.1	13
52	Comments on: Dynamic relations for sparsely sampled Gaussian processes. <i>Test</i> , 2010, 19, 50-53.	1.1	2
53	Prevalence and Magnitude of Paradoxical Results in Multidimensional Item Response Theory. <i>Journal of Educational and Behavioral Statistics</i> , 2010, 35, 744-761.	1.7	11
54	Paradoxical Results in Multidimensional Item Response Theory. <i>Psychometrika</i> , 2009, 74, 419-442.	2.1	31

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55	Forcing Function Diagnostics for Nonlinear Dynamics. <i>Biometrics</i> , 2009, 65, 928-936.	1.4	18
56	Data-intensive Science: A New Paradigm for Biodiversity Studies. <i>BioScience</i> , 2009, 59, 613-620.	4.9	279
57	Functional Data Analysis with R and MATLAB. , 2009, , .		483
58	Generalized Functional ANOVA Diagnostics for High-Dimensional Functions of Dependent Variables. <i>Journal of Computational and Graphical Statistics</i> , 2007, 16, 709-732.	1.7	125
59	Equilibrium Free Energies from Nonequilibrium Measurements Using Maximum-Likelihood Methods. <i>Physical Review Letters</i> , 2003, 91, 140601.	7.8	419
60	An expectation maximization algorithm for high-dimensional model selection for the Ising model with misclassified states*. <i>Journal of Applied Statistics</i> , 0, , 1-20.	1.3	0