

Mevin B Hooten

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3168596/publications.pdf>

Version: 2024-02-01

135
papers

6,087
citations

101496

36
h-index

98753

67
g-index

142
all docs

142
docs citations

142
times ranked

7161
citing authors

#	ARTICLE	IF	CITATIONS
1	A guide to Bayesian model selection for ecologists. <i>Ecological Monographs</i> , 2015, 85, 3-28.	2.4	589
2	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 1424-1432.	3.3	400
3	Practical guidance on characterizing availability in resource selection functions under a use-availability design. <i>Ecology</i> , 2013, 94, 1456-1463.	1.5	278
4	On the use of log-transformation vs. nonlinear regression for analyzing biological power laws. <i>Ecology</i> , 2011, 92, 1887-1894.	1.5	253
5	Animal Movement. , 0, , .		195
6	A guide to Bayesian model checking for ecologists. <i>Ecological Monographs</i> , 2018, 88, 526-542.	2.4	164
7	A general science-based framework for dynamical spatio-temporal models. <i>Test</i> , 2010, 19, 417-451.	0.7	147
8	Forest species diversity reduces disease risk in a generalist plant pathogen invasion. <i>Ecology Letters</i> , 2011, 14, 1108-1116.	3.0	143
9	Spatial occupancy models for large data sets. <i>Ecology</i> , 2013, 94, 801-808.	1.5	135
10	Spatial autoregressive models for statistical inference from ecological data. <i>Ecological Monographs</i> , 2018, 88, 36-59.	2.4	128
11	A hierarchical Bayesian non-linear spatio-temporal model for the spread of invasive species with application to the Eurasian Collared-Dove. <i>Environmental and Ecological Statistics</i> , 2008, 15, 59-70.	1.9	125
12	Restricted spatial regression in practice: geostatistical models, confounding, and robustness under model misspecification. <i>Environmetrics</i> , 2015, 26, 243-254.	0.6	108
13	Climate influences the demography of three dominant sagebrush steppe plants. <i>Ecology</i> , 2011, 92, 75-85.	1.5	98
14	Model selection and assessment for multi-species occupancy models. <i>Ecology</i> , 2016, 97, 1759-1770.	1.5	97
15	The basis function approach for modeling autocorrelation in ecological data. <i>Ecology</i> , 2017, 98, 632-646.	1.5	87
16	Hierarchical Spatiotemporal Matrix Models for Characterizing Invasions. <i>Biometrics</i> , 2007, 63, 558-567.	0.8	78
17	Estimating animal resource selection from telemetry data using point process models. <i>Journal of Animal Ecology</i> , 2013, 82, 1155-1164.	1.3	75
18	When to be discrete: the importance of time formulation in understanding animal movement. <i>Movement Ecology</i> , 2014, 2, 21.	1.3	73

#	ARTICLE	IF	CITATIONS
19	Circuit Theory and Model-Based Inference for Landscape Connectivity. <i>Journal of the American Statistical Association</i> , 2013, 108, 22-33.	1.8	69
20	Statistical Agent-Based Models for Discrete Spatio-Temporal Systems. <i>Journal of the American Statistical Association</i> , 2010, 105, 236-248.	1.8	65
21	Fragmentation and thermal risks from climate change interact to affect persistence of native trout in the Colorado River basin. <i>Global Change Biology</i> , 2013, 19, 1383-1398.	4.2	65
22	Title is missing!. <i>Landscape Ecology</i> , 2003, 18, 487-502.	1.9	62
23	Hierarchical Species Distribution Models. <i>Current Landscape Ecology Reports</i> , 2016, 1, 87-97.	1.1	62
24	Agent-Based Inference for Animal Movement and Selection. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2010, 15, 523-538.	0.7	60
25	Homogenization of Large-Scale Movement Models in Ecology. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2088-2108.	0.9	60
26	Continuous-time discrete-space models for animal movement. <i>Annals of Applied Statistics</i> , 2015, 9, .	0.5	60
27	When mechanism matters: Bayesian forecasting using models of ecological diffusion. <i>Ecology Letters</i> , 2017, 20, 640-650.	3.0	57
28	Dynamic occupancy models for explicit colonization processes. <i>Ecology</i> , 2016, 97, 194-204.	1.5	55
29	Uncertainty in biological monitoring: a framework for data collection and analysis to account for multiple sources of sampling bias. <i>Methods in Ecology and Evolution</i> , 2016, 7, 900-909.	2.2	53
30	Hierarchical animal movement models for population-level inference. <i>Environmetrics</i> , 2016, 27, 322-333.	0.6	52
31	Reconciling resource utilization and resource selection functions. <i>Journal of Animal Ecology</i> , 2013, 82, 1146-1154.	1.3	50
32	Inferring infection hazard in wildlife populations by linking data across individual and population scales. <i>Ecology Letters</i> , 2017, 20, 275-292.	3.0	50
33	Velocity-Based Movement Modeling for Individual and Population Level Inference. <i>PLoS ONE</i> , 2011, 6, e22795.	1.1	49
34	Animal movement constraints improve resource selection inference in the presence of telemetry error. <i>Ecology</i> , 2015, 96, 2590-2597.	1.5	47
35	State-space modeling to support management of brucellosis in the Yellowstone bison population. <i>Ecological Monographs</i> , 2015, 85, 525-556.	2.4	46
36	An integrated data model to estimate spatiotemporal occupancy, abundance, and colonization dynamics. <i>Ecology</i> , 2017, 98, 328-336.	1.5	43

#	ARTICLE	IF	CITATIONS
37	Assessing First-Order Emulator Inference for Physical Parameters in Nonlinear Mechanistic Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2011, 16, 475-494.	0.7	42
38	Assessing North American influenza dynamics with a statistical SIRS model. <i>Spatial and Spatio-temporal Epidemiology</i> , 2010, 1, 177-185.	0.9	40
39	Using spatiotemporal statistical models to estimate animal abundance and infer ecological dynamics from survey counts. <i>Ecological Monographs</i> , 2015, 85, 235-252.	2.4	40
40	On the relationship between conditional (CAR) and simultaneous (SAR) autoregressive models. <i>Spatial Statistics</i> , 2018, 25, 68-85.	0.9	40
41	Bringing Bayesian Models to Life. , 0, , .		40
42	Combining statistical inference and decisions in ecology. <i>Ecological Applications</i> , 2016, 26, 1930-1942.	1.8	38
43	Reconciling multiple data sources to improve accuracy of large-scale prediction of forest disease incidence. , 2011, 21, 1173-1188.		36
44	Inferring invasive species abundance using removal data from management actions. <i>Ecological Applications</i> , 2016, 26, 2339-2346.	1.8	36
45	Forecasting climate change impacts on plant populations over large spatial extents. <i>Ecosphere</i> , 2016, 7, e01525.	1.0	35
46	A functional model for characterizing long-distance movement behaviour. <i>Methods in Ecology and Evolution</i> , 2016, 7, 264-273.	2.2	35
47	Safari Science: assessing the reliability of citizen science data for wildlife surveys. <i>Journal of Applied Ecology</i> , 2017, 54, 2053-2062.	1.9	34
48	Making Recursive Bayesian Inference Accessible. <i>American Statistician</i> , 2021, 75, 185-194.	0.9	34
49	Evaluating breeding and metamorph occupancy and vernal pool management effects for wood frogs using a hierarchical model. <i>Journal of Applied Ecology</i> , 2013, 50, 1116-1123.	1.9	33
50	Temporal variation and scale in movement-based resource selection functions. <i>Statistical Methodology</i> , 2014, 17, 82-98.	0.5	33
51	Do we need demographic data to forecast plant population dynamics?. <i>Methods in Ecology and Evolution</i> , 2017, 8, 541-551.	2.2	32
52	Optimal population prediction of sandhill crane recruitment based on climate-mediated habitat limitations. <i>Journal of Animal Ecology</i> , 2015, 84, 1299-1310.	1.3	31
53	Dynamic social networks based on movement. <i>Annals of Applied Statistics</i> , 2016, 10, .	0.5	30
54	Estimating occupancy and abundance using aerial images with imperfect detection. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1679-1689.	2.2	30

#	ARTICLE	IF	CITATIONS
55	Monitoring dynamic spatio-temporal ecological processes optimally. <i>Ecology</i> , 2018, 99, 524-535.	1.5	30
56	Imputation Approaches for Animal Movement Modeling. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 335-352.	0.7	29
57	Optimal spatio-temporal hybrid sampling designs for ecological monitoring. <i>Journal of Vegetation Science</i> , 2009, 20, 639-649.	1.1	28
58	Accounting for imperfect detection in Hill numbers for biodiversity studies. <i>Methods in Ecology and Evolution</i> , 2015, 6, 99-108.	2.2	28
59	Dynamic spatio-temporal models for spatial data. <i>Spatial Statistics</i> , 2017, 20, 206-220.	0.9	28
60	Assessing potential health risks to fish and humans using mercury concentrations in inland fish from across western Canada and the United States. <i>Science of the Total Environment</i> , 2016, 571, 342-354.	3.9	27
61	The Bayesian Group Lasso for Confounded Spatial Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 42-59.	0.7	27
62	Spatially structured statistical network models for landscape genetics. <i>Ecological Monographs</i> , 2019, 89, e01355.	2.4	27
63	An integrated modeling approach to estimating Gunnison sage-grouse population dynamics: combining index and demographic data. <i>Ecology and Evolution</i> , 2014, 4, 4247-4257.	0.8	26
64	On the existence of maximum likelihood estimates for presence-only data. <i>Methods in Ecology and Evolution</i> , 2015, 6, 648-655.	2.2	25
65	Prey-mediated avoidance of an intraguild predator by its intraguild prey. <i>Oecologia</i> , 2010, 164, 921-929.	0.9	24
66	Atâ€œSea Behavior Varies with Lunar Phase in a Nocturnal Pelagic Seabird, the Swallow-Tailed Gull. <i>PLoS ONE</i> , 2013, 8, e56889.	1.1	24
67	Forecasting the Effects of Fertility Control on Overabundant Ungulates: White-Tailed Deer in the National Capital Region. <i>PLoS ONE</i> , 2015, 10, e0143122.	1.1	24
68	When can the cause of a population decline be determined?. <i>Ecology Letters</i> , 2016, 19, 1353-1362.	3.0	24
69	Movement reveals scale dependence in habitat selection of a large ungulate. <i>Ecological Applications</i> , 2016, 26, 2746-2757.	1.8	24
70	Extreme site fidelity as an optimal strategy in an unpredictable and homogeneous environment. <i>Functional Ecology</i> , 2019, 33, 1695-1707.	1.7	24
71	Running on empty: recharge dynamics from animal movement data. <i>Ecology Letters</i> , 2019, 22, 377-389.	3.0	24
72	Accounting for Individuals, Uncertainty, and Multiscale Clustering in Core Area Estimation. <i>Journal of Wildlife Management</i> , 2010, 74, 1343-1352.	0.7	23

#	ARTICLE	IF	CITATIONS
73	An Accessible Method for Implementing Hierarchical Models with Spatio-Temporal Abundance Data. PLoS ONE, 2012, 7, e49395.	1.1	23
74	Computationally Efficient Statistical Differential Equation Modeling Using Homogenization. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 405-428.	0.7	23
75	Homogenization, sex, and differential motility predict spread of chronic wasting disease in mule deer in southern Utah. Journal of Mathematical Biology, 2014, 69, 369-399.	0.8	23
76	Basis Function Models for Animal Movement. Journal of the American Statistical Association, 2017, 112, 578-589.	1.8	23
77	Nonnative Trout Invasions Combined with Climate Change Threaten Persistence of Isolated Cutthroat Trout Populations in the Southern Rocky Mountains. North American Journal of Fisheries Management, 2017, 37, 314-325.	0.5	22
78	Mapping pre-European settlement vegetation at fine resolutions using a hierarchical Bayesian model and GIS. Plant Ecology, 2007, 191, 85-94.	0.7	21
79	Shifts in the spatio-temporal growth dynamics of shortleaf pine. Environmental and Ecological Statistics, 2007, 14, 207-227.	1.9	20
80	Hierarchical spatial models for predicting pygmy rabbit distribution and relative abundance. Journal of Applied Ecology, 2010, 47, 401-409.	1.9	20
81	The influence of external subsidies on diet, growth and Hg concentrations of freshwater sport fish: implications for management and fish consumption advisories. Ecotoxicology, 2012, 21, 1878-1888.	1.1	18
82	Bias correction of bounded location errors in presence-only data. Methods in Ecology and Evolution, 2017, 8, 1566-1573.	2.2	18
83	Process convolution approaches for modeling interacting trajectories. Environmetrics, 2018, 29, e2487.	0.6	16
84	What processes must we understand to forecast regional-scale population dynamics?. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20202219.	1.2	16
85	Models for Bounded Systems with Continuous Dynamics. Biometrics, 2009, 65, 850-856.	0.8	15
86	Accounting for location uncertainty in azimuthal telemetry data improves ecological inference. Movement Ecology, 2018, 6, 14.	1.3	15
87	Estimating abundance of an open population with an N-mixture model using auxiliary data on animal movements. Ecological Applications, 2018, 28, 816-825.	1.8	14
88	Time-varying predatory behavior is primary predictor of fine-scale movement of wildland-urban cougars. Movement Ecology, 2018, 6, 22.	1.3	14
89	The rise of an apex predator following deglaciation. Diversity and Distributions, 2019, 25, 895-908.	1.9	14
90	Accounting for Individuals, Uncertainty, and Multiscale Clustering in Core Area Estimation. Journal of Wildlife Management, 2010, 74, 1343-1352.	0.7	13

#	ARTICLE	IF	CITATIONS
91	Reflected Stochastic Differential Equation Models for Constrained Animal Movement. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 353-372.	0.7	13
92	Animal movement models for migratory individuals and groups. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1692-1705.	2.2	13
93	Large-scale movement behavior in a reintroduced predator population. <i>Ecography</i> , 2018, 41, 126-139.	2.1	13
94	Compound effects of water clarity, inflow, wind and climate warming on mountain lake thermal regimes. <i>Aquatic Sciences</i> , 2020, 82, 1.	0.6	13
95	Statistical Implementations of Agent-Based Demographic Models. <i>International Statistical Review</i> , 2020, 88, 441-461.	1.1	13
96	Reconstruction of late Holocene climate based on tree growth and mechanistic hierarchical models. <i>Environmetrics</i> , 2016, 27, 42-54.	0.6	11
97	Estimating lake "climate responses from sparse data: An application to high elevation lakes. <i>Limnology and Oceanography</i> , 2019, 64, 1371-1385.	1.6	11
98	Accounting for Phenology in the Analysis of Animal Movement. <i>Biometrics</i> , 2019, 75, 810-820.	0.8	11
99	Nonlinear reaction-diffusion process models improve inference for population dynamics. <i>Environmetrics</i> , 2020, 31, e2604.	0.6	11
100	Predicting effects of large-scale reforestation on native and exotic birds. <i>Diversity and Distributions</i> , 2018, 24, 811-819.	1.9	10
101	Optimal spatio-temporal monitoring designs for characterizing population trends. , 2012, , 443-459.		9
102	A model-based approach to wildland fire reconstruction using sediment charcoal records. <i>Environmetrics</i> , 2017, 28, e2450.	0.6	9
103	Summer spatial patterning of chukars in relation to free water in western Utah. <i>Landscape Ecology</i> , 2010, 25, 135-145.	1.9	8
104	Animal movement models with mechanistic selection functions. <i>Spatial Statistics</i> , 2020, 37, 100406.	0.9	8
105	Diffusion modeling reveals effects of multiple release sites and human activity on a recolonizing apex predator. <i>Movement Ecology</i> , 2021, 9, 34.	1.3	8
106	Linking mosquito surveillance to dengue fever through Bayesian mechanistic modeling. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008868.	1.3	8
107	Hierarchical computing for hierarchical models in ecology. <i>Methods in Ecology and Evolution</i> , 2021, 12, 245-254.	2.2	7
108	Statistical Challenges in Agent-Based Modeling. <i>American Statistician</i> , 2021, 75, 235-242.	0.9	7

#	ARTICLE	IF	CITATIONS
109	Rapid proliferation of the parasitic copepod, <i>Salmincola californiensis</i> (Dana), on kokanee salmon, <i>Oncorhynchus nerka</i> (Walbaum), in a large Colorado reservoir. <i>Journal of Fish Diseases</i> , 2022, 45, 89-98.	0.9	6
110	Searching for refuge: A framework for identifying site factors conferring resistance to climate-driven vegetation change. <i>Diversity and Distributions</i> , 2022, 28, 793-809.	1.9	6
111	Multi-Fraction Bayesian Sediment Transport Model. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1066-1092.	1.2	5
112	Guest Editor's Introduction to the Special Issue on "Animal Movement Modeling". <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 224-231.	0.7	5
113	Comparing and improving methods for reconstructing peatland water-table depth from testate amoebae. <i>Holocene</i> , 2019, 29, 1350-1361.	0.9	5
114	Leveraging constraints and biotelemetry data to pinpoint repetitively used spatial features. <i>Ecology</i> , 2017, 98, 12-20.	1.5	4
115	Model-based clustering reveals patterns in central place use of a marine top predator. <i>Ecosphere</i> , 2020, 11, e03123.	1.0	4
116	Improving inferences about private land conservation by accounting for incomplete reporting. <i>Conservation Biology</i> , 2021, 35, 1174-1185.	2.4	4
117	Recursive Bayesian computation facilitates adaptive optimal design in ecological studies. <i>Ecology</i> , 2022, 103, e03573.	1.5	4
118	Scale-dependent influence of the sagebrush community on genetic connectivity of the sagebrush obligate Gunnison sagegrouse. <i>Molecular Ecology</i> , 2022, 31, 3267-3285.	2.0	4
119	Community confounding in joint species distribution models. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
120	Multivariate Bayesian clustering using covariate-informed components with application to boreal vegetation sensitivity. <i>Biometrics</i> , 2022, 78, 1427-1440.	0.8	3
121	Hierarchical Spatial Models. , 2017, , 837-846.		3
122	Rejoinder on: A general science-based framework for dynamical spatio-temporal models. <i>Test</i> , 2010, 19, 466-468.	0.7	2
123	Individual heterogeneity influences the effects of translocation on urban dispersal of an invasive reptile. <i>Movement Ecology</i> , 2022, 10, 2.	1.3	2
124	Bayesian inverse reinforcement learning for collective animal movement. <i>Annals of Applied Statistics</i> , 2022, 16, .	0.5	2
125	A Bayesian model for predicting local El Niño events using tree ring widths and cellulose $\delta^{18}O$. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	1
126	Guest Editor's Introduction to the Special Issue on "Modern Dimension Reduction Methods for Big Data Problems in Ecology". <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 271-273.	0.7	1

#	ARTICLE	IF	CITATIONS
127	Improving Wildlife Population Inference Using Aerial Imagery and Entity Resolution. Journal of Agricultural, Biological, and Environmental Statistics, 0, , 1.	0.7	1
128	Constructing Flexible, Identifiable and Interpretable Statistical Models for Binary Data. International Statistical Review, 2022, 90, 328-345.	1.1	1
129	Bridging implementation gaps to connect large ecological datasets and complex models. Ecology and Evolution, 2021, 11, 18271-18287.	0.8	1
130	Linking male reproductive success to effort within and among nests in a co-breeding stream fish. Ethology, 2022, 128, 489-498.	0.5	1
131	Comments on: Inference for Size Demography From Point Process Data Using Integral Projection Models. Journal of Agricultural, Biological, and Environmental Statistics, 2012, 17, 690-692.	0.7	0
132	A Bayesian hierarchical model for forecasting intermountain snow dynamics. Environmetrics, 2014, 25, 324-340.	0.6	0
133	Hierarchical Spatial Models. , 2015, , 1-10.		0
134	Models for Ecological Models: Ocean Primary Productivity. Chance, 2016, 29, 23-30.	0.1	0
135	Greater Than the Sum of its Parts: Computationally Flexible Bayesian Hierarchical Modeling. Journal of Agricultural, Biological, and Environmental Statistics, 2022, 27, 382.	0.7	0