

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

101543

36
h-index

98798

67
g-index

142
all docs

142
docs citations

142
times ranked

7161
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate Bayesian clustering using covariate-informed components with application to boreal vegetation sensitivity. <i>Biometrics</i> , 2022, 78, 1427-1440.	1.4	3
2	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.	1.9	6
3	Recursive Bayesian computation facilitates adaptive optimal design in ecological studies. <i>Ecology</i> , 2022, 103, e03573.	3.2	4
4	Individual heterogeneity influences the effects of translocation on urban dispersal of an invasive reptile. <i>Movement Ecology</i> , 2022, 10, 2.	2.8	2
5	Constructing Flexible, Identifiable and Interpretable Statistical Models for Binary Data. <i>International Statistical Review</i> , 2022, 90, 328-345.	1.9	1
6	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.	4.1	6
7	Greater Than the Sum of its Parts: Computationally Flexible Bayesian Hierarchical Modeling. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2022, 27, 382.	1.4	0
8	Linking male reproductive success to effort within and among nests in a co-breeding stream fish. <i>Ethology</i> , 2022, 128, 489-498.	1.1	1
9	Scale-dependent influence of the sagebrush community on genetic connectivity of the sagebrush obligate Gunnison sage-grouse. <i>Molecular Ecology</i> , 2022, 31, 3267-3285.	3.9	4
10	Bayesian inverse reinforcement learning for collective animal movement. <i>Annals of Applied Statistics</i> , 2022, 16, .	1.1	2
11	Community confounding in joint species distribution models. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
12	Hierarchical computing for hierarchical models in ecology. <i>Methods in Ecology and Evolution</i> , 2021, 12, 245-254.	5.2	7
13	Making Recursive Bayesian Inference Accessible. <i>American Statistician</i> , 2021, 75, 185-194.	1.6	34
14	Improving inferences about private land conservation by accounting for incomplete reporting. <i>Conservation Biology</i> , 2021, 35, 1174-1185.	4.7	4
15	Statistical Challenges in Agent-Based Modeling. <i>American Statistician</i> , 2021, 75, 235-242.	1.6	7
16	Diffusion modeling reveals effects of multiple release sites and human activity on a recolonizing apex predator. <i>Movement Ecology</i> , 2021, 9, 34.	2.8	8
17	Bridging implementation gaps to connect large ecological datasets and complex models. <i>Ecology and Evolution</i> , 2021, 11, 18271-18287.	1.9	1
18	Nonlinear reaction-diffusion process models improve inference for population dynamics. <i>Environmetrics</i> , 2020, 31, e2604.	1.4	11

#	ARTICLE	IF	CITATIONS
19	Compound effects of water clarity, inflow, wind and climate warming on mountain lake thermal regimes. <i>Aquatic Sciences</i> , 2020, 82, 1.	1.5	13
20	Statistical Implementations of Agent-Based Demographic Models. <i>International Statistical Review</i> , 2020, 88, 441-461.	1.9	13
21	Animal movement models with mechanistic selection functions. <i>Spatial Statistics</i> , 2020, 37, 100406.	1.9	8
22	Model-based clustering reveals patterns in central place use of a marine top predator. <i>Ecosphere</i> , 2020, 11, e03123.	2.2	4
23	What processes must we understand to forecast regional-scale population dynamics?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202219.	2.6	16
24	Linking mosquito surveillance to dengue fever through Bayesian mechanistic modeling. <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008868.	3.0	8
25	Extreme site fidelity as an optimal strategy in an unpredictable and homogeneous environment. <i>Functional Ecology</i> , 2019, 33, 1695-1707.	3.6	24
26	Estimating lake-climate responses from sparse data: An application to high elevation lakes. <i>Limnology and Oceanography</i> , 2019, 64, 1371-1385.	3.1	11
27	The rise of an apex predator following deglaciation. <i>Diversity and Distributions</i> , 2019, 25, 895-908.	4.1	14
28	Comparing and improving methods for reconstructing peatland water-table depth from testate amoebae. <i>Holocene</i> , 2019, 29, 1350-1361.	1.7	5
29	Accounting for Phenology in the Analysis of Animal Movement. <i>Biometrics</i> , 2019, 75, 810-820.	1.4	11
30	Spatially structured statistical network models for landscape genetics. <i>Ecological Monographs</i> , 2019, 89, e01355.	5.4	27
31	Running on empty: recharge dynamics from animal movement data. <i>Ecology Letters</i> , 2019, 22, 377-389.	6.4	24
32	Animal movement models for migratory individuals and groups. <i>Methods in Ecology and Evolution</i> , 2018, 9, 1692-1705.	5.2	13
33	Estimating abundance of an open population with an N-mixture model using auxiliary data on animal movements. <i>Ecological Applications</i> , 2018, 28, 816-825.	3.8	14
34	Predicting effects of large-scale reforestation on native and exotic birds. <i>Diversity and Distributions</i> , 2018, 24, 811-819.	4.1	10
35	Monitoring dynamic spatio-temporal ecological processes optimally. <i>Ecology</i> , 2018, 99, 524-535.	3.2	30
36	Process convolution approaches for modeling interacting trajectories. <i>Environmetrics</i> , 2018, 29, e2487.	1.4	16

#	ARTICLE	IF	CITATIONS
37	Iterative near-term ecological forecasting: Needs, opportunities, and challenges. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1424-1432.	7.1	400
38	Large-scale movement behavior in a reintroduced predator population. <i>Ecography</i> , 2018, 41, 126-139.	4.5	13
39	Spatial autoregressive models for statistical inference from ecological data. <i>Ecological Monographs</i> , 2018, 88, 36-59.	5.4	128
40	Time-varying predatory behavior is primary predictor of fine-scale movement of wildland-urban cougars. <i>Movement Ecology</i> , 2018, 6, 22.	2.8	14
41	Accounting for location uncertainty in azimuthal telemetry data improves ecological inference. <i>Movement Ecology</i> , 2018, 6, 14.	2.8	15
42	A guide to Bayesian model checking for ecologists. <i>Ecological Monographs</i> , 2018, 88, 526-542.	5.4	164
43	On the relationship between conditional (CAR) and simultaneous (SAR) autoregressive models. <i>Spatial Statistics</i> , 2018, 25, 68-85.	1.9	40
44	Inferring infection hazard in wildlife populations by linking data across individual and population scales. <i>Ecology Letters</i> , 2017, 20, 275-292.	6.4	50
45	The Bayesian Group Lasso for Confounded Spatial Data. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 42-59.	1.4	27
46	Nonnative Trout Invasions Combined with Climate Change Threaten Persistence of Isolated Cutthroat Trout Populations in the Southern Rocky Mountains. <i>North American Journal of Fisheries Management</i> , 2017, 37, 314-325.	1.0	22
47	Safari Science: assessing the reliability of citizen science data for wildlife surveys. <i>Journal of Applied Ecology</i> , 2017, 54, 2053-2062.	4.0	34
48	Dynamic spatio-temporal models for spatial data. <i>Spatial Statistics</i> , 2017, 20, 206-220.	1.9	28
49	Bias correction of bounded location errors in presence-only data. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1566-1573.	5.2	18
50	Basis Function Models for Animal Movement. <i>Journal of the American Statistical Association</i> , 2017, 112, 578-589.	3.1	23
51	Estimating occupancy and abundance using aerial images with imperfect detection. <i>Methods in Ecology and Evolution</i> , 2017, 8, 1679-1689.	5.2	30
52	When mechanism matters: Bayesian forecasting using models of ecological diffusion. <i>Ecology Letters</i> , 2017, 20, 640-650.	6.4	57
53	The basis function approach for modeling autocorrelation in ecological data. <i>Ecology</i> , 2017, 98, 632-646.	3.2	87
54	Reflected Stochastic Differential Equation Models for Constrained Animal Movement. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 353-372.	1.4	13

#	ARTICLE	IF	CITATIONS
55	A model-based approach to wildland fire reconstruction using sediment charcoal records. <i>Environmetrics</i> , 2017, 28, e2450.	1.4	9
56	Imputation Approaches for Animal Movement Modeling. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2017, 22, 335-352.	1.4	29
57	Leveraging constraints and biotelemetry data to pinpoint repetitively used spatial features. <i>Ecology</i> , 2017, 98, 12-20.	3.2	4
58	Do we need demographic data to forecast plant population dynamics?. <i>Methods in Ecology and Evolution</i> , 2017, 8, 541-551.	5.2	32
59	An integrated data model to estimate spatiotemporal occupancy, abundance, and colonization dynamics. <i>Ecology</i> , 2017, 98, 328-336.	3.2	43
60	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.	1.4	5
61	Hierarchical Spatial Models. , 2017, , 837-846.		3
62	Inferring invasive species abundance using removal data from management actions. <i>Ecological Applications</i> , 2016, 26, 2339-2346.	3.8	36
63	Hierarchical Species Distribution Models. <i>Current Landscape Ecology Reports</i> , 2016, 1, 87-97.	2.2	62
64	Model selection and assessment for multi-species occupancy models. <i>Ecology</i> , 2016, 97, 1759-1770.	3.2	97
65	Forecasting climate change impacts on plant populations over large spatial extents. <i>Ecosphere</i> , 2016, 7, e01525.	2.2	35
66	Dynamic social networks based on movement. <i>Annals of Applied Statistics</i> , 2016, 10, .	1.1	30
67	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.	8.0	27
68	Dynamic occupancy models for explicit colonization processes. <i>Ecology</i> , 2016, 97, 194-204.	3.2	55
69	Models for Ecological Models: Ocean Primary Productivity. <i>Chance</i> , 2016, 29, 23-30.	0.2	0
70	When can the cause of a population decline be determined?. <i>Ecology Letters</i> , 2016, 19, 1353-1362.	6.4	24
71	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.	5.2	53
72	Movement reveals scale dependence in habitat selection of a large ungulate. <i>Ecological Applications</i> , 2016, 26, 2746-2757.	3.8	24

#	ARTICLE	IF	CITATIONS
73	Reconstruction of late Holocene climate based on tree growth and mechanistic hierarchical models. <i>Environmetrics</i> , 2016, 27, 42-54.	1.4	11
74	Hierarchical animal movement models for population-level inference. <i>Environmetrics</i> , 2016, 27, 322-333.	1.4	52
75	A functional model for characterizing long-distance movement behaviour. <i>Methods in Ecology and Evolution</i> , 2016, 7, 264-273.	5.2	35
76	Combining statistical inference and decisions in ecology. <i>Ecological Applications</i> , 2016, 26, 1930-1942.	3.8	38
77	Continuous-time discrete-space models for animal movement. <i>Annals of Applied Statistics</i> , 2015, 9, .	1.1	60
78	Hierarchical Spatial Models. , 2015, , 1-10.		0
79	Optimal population prediction of sandhill crane recruitment based on climate-mediated habitat limitations. <i>Journal of Animal Ecology</i> , 2015, 84, 1299-1310.	2.8	31
80	Accounting for imperfect detection in Hill numbers for biodiversity studies. <i>Methods in Ecology and Evolution</i> , 2015, 6, 99-108.	5.2	28
81	Multi-Fraction Bayesian Sediment Transport Model. <i>Journal of Marine Science and Engineering</i> , 2015, 3, 1066-1092.	2.6	5
82	Forecasting the Effects of Fertility Control on Overabundant Ungulates: White-Tailed Deer in the National Capital Region. <i>PLoS ONE</i> , 2015, 10, e0143122.	2.5	24
83	State-space modeling to support management of brucellosis in the Yellowstone bison population. <i>Ecological Monographs</i> , 2015, 85, 525-556.	5.4	46
84	On the existence of maximum likelihood estimates for presence-only data. <i>Methods in Ecology and Evolution</i> , 2015, 6, 648-655.	5.2	25
85	Restricted spatial regression in practice: geostatistical models, confounding, and robustness under model misspecification. <i>Environmetrics</i> , 2015, 26, 243-254.	1.4	108
86	Animal movement constraints improve resource selection inference in the presence of telemetry error. <i>Ecology</i> , 2015, 96, 2590-2597.	3.2	47
87	A guide to Bayesian model selection for ecologists. <i>Ecological Monographs</i> , 2015, 85, 3-28.	5.4	589
88	Using spatiotemporal statistical models to estimate animal abundance and infer ecological dynamics from survey counts. <i>Ecological Monographs</i> , 2015, 85, 235-252.	5.4	40
89	When to be discrete: the importance of time formulation in understanding animal movement. <i>Movement Ecology</i> , 2014, 2, 21.	2.8	73
90	Homogenization, sex, and differential motility predict spread of chronic wasting disease in mule deer in southern Utah. <i>Journal of Mathematical Biology</i> , 2014, 69, 369-399.	1.9	23

#	ARTICLE	IF	CITATIONS
91	Temporal variation and scale in movement-based resource selection functions. <i>Statistical Methodology</i> , 2014, 17, 82-98.	0.5	33
92	A Bayesian hierarchical model for forecasting intermountain snow dynamics. <i>Environmetrics</i> , 2014, 25, 324-340.	1.4	0
93	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.	1.9	26
94	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.	1.4	1
95	Computationally Efficient Statistical Differential Equation Modeling Using Homogenization. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2013, 18, 405-428.	1.4	23
96	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.	4.0	33
97	Estimating animal resource selection from telemetry data using point process models. <i>Journal of Animal Ecology</i> , 2013, 82, 1155-1164.	2.8	75
98	Spatial occupancy models for large data sets. <i>Ecology</i> , 2013, 94, 801-808.	3.2	135
99	Reconciling resource utilization and resource selection functions. <i>Journal of Animal Ecology</i> , 2013, 82, 1146-1154.	2.8	50
100	Circuit Theory and Model-Based Inference for Landscape Connectivity. <i>Journal of the American Statistical Association</i> , 2013, 108, 22-33.	3.1	69
101	Practical guidance on characterizing availability in resource selection functions under a use-availability design. <i>Ecology</i> , 2013, 94, 1456-1463.	3.2	278
102	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.	9.5	65
103	At-Sea Behavior Varies with Lunar Phase in a Nocturnal Pelagic Seabird, the Swallow-Tailed Gull. <i>PLoS ONE</i> , 2013, 8, e56889.	2.5	24
104	Comments on: Inference for Size Demography From Point Process Data Using Integral Projection Models. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2012, 17, 690-692.	1.4	0
105	The influence of external subsidies on diet, growth and Hg concentrations of freshwater sport fish: implications for management and fish consumption advisories. <i>Ecotoxicology</i> , 2012, 21, 1878-1888.	2.4	18
106	An Accessible Method for Implementing Hierarchical Models with Spatio-Temporal Abundance Data. <i>PLoS ONE</i> , 2012, 7, e49395.	2.5	23
107	Optimal spatio-temporal monitoring designs for characterizing population trends. , 2012, , 443-459.		9
108	Reconciling multiple data sources to improve accuracy of large-scale prediction of forest disease incidence. , 2011, 21, 1173-1188.		36

#	ARTICLE	IF	CITATIONS
109	On the use of log-transformation vs. nonlinear regression for analyzing biological power laws. <i>Ecology</i> , 2011, 92, 1887-1894.	3.2	253
110	Forest species diversity reduces disease risk in a generalist plant pathogen invasion. <i>Ecology Letters</i> , 2011, 14, 1108-1116.	6.4	143
111	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.	1.4	42
112	Homogenization of Large-Scale Movement Models in Ecology. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2088-2108.	1.9	60
113	Climate influences the demography of three dominant sagebrush steppe plants. <i>Ecology</i> , 2011, 92, 75-85.	3.2	98
114	Velocity-Based Movement Modeling for Individual and Population Level Inference. <i>PLoS ONE</i> , 2011, 6, e22795.	2.5	49
115	Prey-mediated avoidance of an intraguild predator by its intraguild prey. <i>Oecologia</i> , 2010, 164, 921-929.	2.0	24
116	Agent-Based Inference for Animal Movement and Selection. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2010, 15, 523-538.	1.4	60
117	A general science-based framework for dynamical spatio-temporal models. <i>Test</i> , 2010, 19, 417-451.	1.1	147
118	Rejoinder on: A general science-based framework for dynamical spatio-temporal models. <i>Test</i> , 2010, 19, 466-468.	1.1	2
119	Summer spatial patterning of chukars in relation to free water in western Utah. <i>Landscape Ecology</i> , 2010, 25, 135-145.	4.2	8
120	Assessing North American influenza dynamics with a statistical SIRS model. <i>Spatial and Spatio-temporal Epidemiology</i> , 2010, 1, 177-185.	1.7	40
121	Accounting for Individuals, Uncertainty, and Multiscale Clustering in Core Area Estimation. <i>Journal of Wildlife Management</i> , 2010, 74, 1343-1352.	1.8	23
122	Hierarchical spatial models for predicting pygmy rabbit distribution and relative abundance. <i>Journal of Applied Ecology</i> , 2010, 47, 401-409.	4.0	20
123	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
124	Statistical Agent-Based Models for Discrete Spatio-Temporal Systems. <i>Journal of the American Statistical Association</i> , 2010, 105, 236-248.	3.1	65
125	Accounting for Individuals, Uncertainty, and Multiscale Clustering in Core Area Estimation. <i>Journal of Wildlife Management</i> , 2010, 74, 1343-1352.	1.8	13
126	Models for Bounded Systems with Continuous Dynamics. <i>Biometrics</i> , 2009, 65, 850-856.	1.4	15

#	ARTICLE	IF	CITATIONS
127	Optimal spatio-temporal hybrid sampling designs for ecological monitoring. <i>Journal of Vegetation Science</i> , 2009, 20, 639-649.	2.2	28
128	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.	3.5	125
129	Hierarchical Spatiotemporal Matrix Models for Characterizing Invasions. <i>Biometrics</i> , 2007, 63, 558-567.	1.4	78
130	Mapping pre-European settlement vegetation at fine resolutions using a hierarchical Bayesian model and GIS. <i>Plant Ecology</i> , 2007, 191, 85-94.	1.6	21
131	Shifts in the spatio-temporal growth dynamics of shortleaf pine. <i>Environmental and Ecological Statistics</i> , 2007, 14, 207-227.	3.5	20
132	Title is missing!. <i>Landscape Ecology</i> , 2003, 18, 487-502.	4.2	62
133	Bringing Bayesian Models to Life. , 0, , .		40
134	Animal Movement. , 0, , .		195
135	Improving Wildlife Population Inference Using Aerial Imagery and Entity Resolution. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 0, , 1.	1.4	1