M Jay Ver Hoef

List of Publications by Year
in descending order

112 papers	6,621 citations	81900 39 h-index	71685 76 g-index
137 all docs	137 docs citations	137 times ranked	7220 citing authors

#	Article	IF	Citations
1	Application of a Bayesian hierarchical model to estimate trends in Atlantic harbor seal (<scp>Phoca vitulina vitulina</scp>) abundance in Maine, U.S.A., 1993â€“2018. Marine Mammal Science, 2022, 38, 500-516.	1.8	5
2	Bayesian spatio-temporal models for stream networks. Computational Statistics and Data Analysis, 2022, 170, 107446.	1.2	11
3	A comparison of designâ€based and modelâ€based approaches for finite population spatial sampling and inference. Methods in Ecology and Evolution, 2022, 13, 2018-2029.	5.2	6
4	Adjusting a finite population block kriging estimator for imperfect detection. Environmetrics, 2021, 32, .	1.4	4
5	A linear mixed model formulation for spatio-temporal random processes with computational advances for the product, sum, and productâ€“sum covariance functions. Spatial Statistics, 2021, 43, 100510.	1.9	4
6	Species density models from opportunistic citizen science data. Methods in Ecology and Evolution, 2021, 12, 1911-1925.	5.2	7
7	Collaboration with Nlaka'pamux communities to examine metal deposition on soapberry in interior British Columbia. Ecosphere, 2021, 12, .	2.2	1
8	Robustness of closeâ€kin markâ€“recapture estimators to dispersal limitation and spatially varying sampling probabilities. Ecology and Evolution, 2020, 10, 5558-5569.	1.9	25
9	SSNdesignâ€”An R package for pseudo-Bayesian optimal and adaptive sampling designs on stream networks. PLoS ONE, 2020, 15, e0238422.	2.5	5
10	Calibrating and adjusting counts of harbor seals in a tidewater glacier fjord to estimate abundance and trends 1992 to 2017. Ecosphere, 2020, 11, e03111.	2.2	7
11	Comparing spatial regression to random forests for large environmental data sets. PLoS ONE, 2020, 15, e0229509.	2.5	34
12	Decline towards extinction of Mexico's vaquita porpoise (Phocoena sinus). Royal Society Open Science, 2019, 6, 190598.	2.4	82
13	Spatially structured statistical network models for landscape genetics. Ecological Monographs, 2019, 89, e01355.	5.4	27
14	Kriging models for linear networks and nonâ€Euclidean distances: Cautions and solutions. Methods in Ecology and Evolution, 2018, 9, 1600-1613.	5.2	17
15	A Bayesian Analysis of Abundance, Trend, and Population Viability for Harbor Seals in Iliamna Lake, Alaska. Risk Analysis, 2018, 38, 1988-2009.	2.7	7
16	Spatial autoregressive models for statistical inference from ecological data. Ecological Monographs, 2018, 88, 36-59.	5.4	128
17	On the relationship between conditional (CAR) and simultaneous (SAR) autoregressive models. Spatial Statistics, 2018, 25, 68-85.	1.9	40
18	Habitat selection and seasonal movements of young bearded seals (Erignathus barbatus) in the Bering Sea. PLoS ONE, 2018, 13, e0192743.	2.5	25

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19	Seasonal sea ice dynamics drive movement and migration of juvenile bearded seals Erignathus barbatus. Marine Ecology - Progress Series, 2018, 600, 223-237.	1.9	19
20	Passive acoustic monitoring of the decline of Mexico's critically endangered vaquita. Conservation Biology, 2017, 31, 183-191.	4.7	87
21	Extinction is Imminent for Mexico's Endemic Porpoise Unless Fishery Bycatch is Eliminated. Conservation Letters, 2017, 10, 588-595.	5.7	79
22	Scalable population estimates using spatial-stream-network (SSN) models, fish density surveys, and national geospatial database frameworks for streams. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 147-156.	1.4	31
23	The NorWeST Summer Stream Temperature Model and Scenarios for the Western U.S.: A Crowdâ€Sourced Database and New Geospatial Tools Foster a User Community and Predict Broad Climate Warming of Rivers and Streams. Water Resources Research, 2017, 53, 9181-9205.	4.2	187
24	The Torgegram for Fluvial Variography: Characterizing Spatial Dependence on Stream Networks. Journal of Computational and Graphical Statistics, 2017, 26, 253-264.	1.7	23
25	Last call: Passive acoustic monitoring shows continued rapid decline of critically endangered vaquita. Journal of the Acoustical Society of America, 2017, 142, EL512-EL517.	1.1	28
26	Trends in spatial patterns of heavy metal deposition on national park service lands along the Red Dog Mine haul road, Alaska, 2001â€“2006. PLoS ONE, 2017, 12, e0177936.	2.5	12
27	Slow climate velocities of mountain streams portend their role as refugia for cold-water biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4374-4379.	7.1	182
28	Natural and human effects on harbor seal abundance and spatial distribution in an Alaskan glacial fjord. Marine Mammal Science, 2015, 31, 66-89.	1.8	17
29	Validation and comparison of geostatistical and spline models for spatial stream networks. Environmetrics, 2015, 26, 327-338.	1.4	18
30	Evaluation of the spatial linear model, random forest and gradient nearest-neighbour methods for imputing potential productivity and biomass of the Pacific Northwest forests. Forestry, 2015, 88, 131-142.	2.3	17
31	Iterating on a single model is a viable alternative to multimodel inference. Journal of Wildlife Management, 2015, 79, 719-729.	1.8	22
32	Estimating Abundance from Counts in Large Data Sets of Irregularly Spaced Plots using Spatial Basis Functions. Journal of Agricultural, Biological, and Environmental Statistics, 2015, 20, 1-27.	1.4	9
33	Using spatiotemporal statistical models to estimate animal abundance and infer ecological dynamics from survey counts. Ecological Monographs, 2015, 85, 235-252.	5.4	40
34	Spatially Estimating Disturbance of Harbor Seals (Phoca vitulina). PLoS ONE, 2015, 10, e0129798.	2.5	6
35	When to be discrete: the importance of time formulation in understanding animal movement. Movement Ecology, 2014, 2, 21.	2.8	73
36	Estimating multispecies abundance using automated detection systems: iceâ€associated seals in the Bering Sea. Methods in Ecology and Evolution, 2014, 5, 1280-1293.	5.2	65

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37	Applications of spatial statistical network models to stream data. Wiley Interdisciplinary Reviews: Water, 2014, 1, 277-294.	6.5	139
38	Spatial sampling on streams: principles for inference on aquatic networks. Environmetrics, 2014, 25, 306-323.	1.4	30
39	A spatial hierarchical model for abundance of three ice-associated seal species in the eastern Bering Sea. Statistical Methodology, 2014, 17, 46-66.	0.5	34
40	When to be discrete: the importance of time formulation in understanding animal movement. Movement Ecology, 2014, 2, 21.	2.8	1
41	STARS: AnArcGISToolset Used to Calculate the Spatial Information Needed to Fit Spatial Statistical Models to Stream Network Data. Journal of Statistical Software, 2014, 56, .	3.7	84
42	SSN: AnRPackage for Spatial Statistical Modeling on Stream Networks. Journal of Statistical Software, 2014, 56, .	3.7	31
43	Modelling dendritic ecological networks in space: an integrated network perspective. Ecology Letters, 2013, 16, 707-719.	6.4	180
44	A Comparison of the Spatial Linear Model to Nearest Neighbor (k-NN) Methods for Forestry Applications. PLoS ONE, 2013, 8, e59129.	2.5	32
45	Who Invented the Delta Method?. American Statistician, 2012, 66, 124-127.	1.6	172
46	A Bayesian hierarchical model of Antarctic fur seal foraging and pup growth related to sea ice and prey abundance. Ecological Applications, 2012, 22, 668-684.	3.8	8
47	Haul-Out Behavior of Harbor Seals (Phoca vitulina) in Hood Canal, Washington. PLoS ONE, 2012, 7, e38180.	2.5	41
48	Discretized and Aggregated: Modeling Dive Depth of Harbor Seals from Ordered Categorical Data with Temporal Autocorrelation. Biometrics, 2012, 68, 965-974.	1.4	6
49	Practical considerations for experimental designs of spatially autocorrelated data using computer intensive methods. Statistical Methodology, 2012, 9, 172-184.	0.5	5
50	Identifying essential summer habitat of the endangered beluga whale Delphinapterus leucas in Cook Inlet, Alaska. Endangered Species Research, 2012, 16, 135-147.	2.4	43
51	Implications of ignoring telemetry error on inference in wildlife resource use models. Journal of Wildlife Management, 2011, 75, 702-708.	1.8	41
52	Spatial modelling and prediction on river networks: up model, down model or hybrid?. Environmetrics, 2010, 21, 439-456.	1.4	27
53	Fast computing of some generalized linear mixed pseudo-models with temporal autocorrelation. Computational Statistics, 2010, 25, 39-55.	1.5	17
54	Coarse-Scale Distribution Surveys and Occurrence Probability Modeling for Wolverine in Interior Alaska. Journal of Wildlife Management, 2010, 74, 1894-1903.	1.8	19

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55	Can We Accurately Characterize Wildlife Resource Use When Telemetry Data Are Imprecise?. Journal of Wildlife Management, 2010, 74, 1917-1925.	1.8	33
56	A Modelâ€Based Approach for Making Ecological Inference from Distance Sampling Data. Biometrics, 2010, 66, 310-318.	1.4	73
57	A mixedâ€model movingâ€average approach to geostatistical modeling in stream networks. Ecology, 2010, 91, 644-651.	3.2	115
58	Longâ€term recovery patterns of arctic tundra after winter seismic exploration. Ecological Applications, 2010, 20, 205-221.	3.8	57
59	A Moving Average Approach for Spatial Statistical Models of Stream Networks. Journal of the American Statistical Association, 2010, 105, 6-18.	3.1	168
60	Mammalâ€eating killer whales and their preyâ€”trend data for pinnipeds and sea otters in the North Pacific Ocean do not support the sequential megafaunal collapse hypothesis. Marine Mammal Science, 2009, 25, 737-747.	1.8	8
61	Accounting for uncertainty in ecological analysis: the strengths and limitations of hierarchical statistical modeling. Ecological Applications, 2009, 19, 553-570.	3.8	423
62	Spatial methods for plot-based sampling of wildlife populations. Environmental and Ecological Statistics, 2008, 15, 3-13.	3.5	27
63	An animal movement model incorporating home range and habitat selection. Environmental and Ecological Statistics, 2008, 15, 27-38.	3.5	39
64	A General Framework for the Analysis of Animal Resource Selection from Telemetry Data. Biometrics, 2008, 64, 968-976.	1.4	109
65	Antler Size of Alaskan Moose Alces Alces Gigas: Effects of Population Density, Hunter Harvest and Use of Guides. Wildlife Biology, 2007, 13, 53-65.	1.4	30
66	Spaceâ€”time zeroâ€inflated count models of Harbor seals. Environmetrics, 2007, 18, 697-712.	1.4	81
67	Geostatistical modelling on stream networks: developing valid covariance matrices based on hydrologic distance and stream flow. Freshwater Biology, 2007, 52, 267-279.	2.4	91
68	QUASI-POISSON VS. NEGATIVE BINOMIAL REGRESSION: HOW SHOULD WE MODEL OVERDISPERSED COUNT DATA?. Ecology, 2007, 88, 2766-2772.	3.2	840
69	Spatial modeling of haul-out site use by harbor seals in Cook Inlet, Alaska. Marine Ecology - Progress Series, 2007, 341, 257-264.	1.9	24
70	Comment on article by Gelfand et al. Bayesian Analysis, 2006, 1, 99.	3.0	0
71	Spatial statistical models that use flow and stream distance. Environmental and Ecological Statistics, 2006, 13, 449-464.	3.5	225
72	The sequential megafaunal collapse hypothesis: Testing with existing data. Progress in Oceanography, 2006, 68, 329-342.	3.2	80

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73	SEROLOGIC SURVEY FOR BRUCELLA SPP., PHOCID HERPESVIRUS-1, PHOCID HERPESVIRUS-2, AND PHOCINE DISTEMPER VIRUS IN HARBOR SEALS FROM ALASKA, 1976â€“1999. Journal of Wildlife Diseases, 2006, 42, 290-300.	0.8	40
74	GEOGRAPHIC PATTERN OF SERUM ANTIBODY PREVALENCE FOR BRUCELLA SPP. IN CARIBOU, GRIZZLY BEARS, AND WOLVES FROM ALASKA, 1975â€“1998. Journal of Wildlife Diseases, 2006, 42, 570-577.	0.8	8
75	DIFFERENTIAL MOVEMENTS BY HARBOR SEAL PUPS IN CONTRASTING ALASKA ENVIRONMENTS. Marine Mammal Science, 2005, 21, 671-694.	1.8	22
76	Spatial patterns of cadmium and lead deposition on and adjacent to National Park Service lands in the vicinity of Red Dog Mine, Alaska. Science of the Total Environment, 2005, 348, 211-230.	8.0	36
77	CATCH PER UNIT EFFORT FOR MOOSE: A NEW APPROACH USING WEIBULL REGRESSION. Journal of Wildlife Management, 2005, 69, 1112-1124.	1.8	30
78	Distribution and density of moose in relation to landscape characteristics: effects of scale. Canadian Journal of Forest Research, 2005, 35, 2233-2243.	1.7	72
79	SHORT-TERM IMPACTS OF MILITARY OVERFLIGHTS ON CARIBOU DURING CALVING SEASON. Journal of Wildlife Management, 2005, 69, 1133-1146.	1.8	8
80	SEROLOGIC SURVEY FOR SELECTED DISEASE AGENTS IN WOLVES (CANIS LUPUS) FROM ALASKA AND THE YUKON TERRITORY, 1984â€“2000. Journal of Wildlife Diseases, 2004, 40, 632-638.	0.8	27
81	Flexible Spatial Models for Kriging and Cokriging Using Moving Averages and the Fast Fourier Transform (FFT). Journal of Computational and Graphical Statistics, 2004, 13, 265-282.	1.7	69
82	PREVALENCE OF SOBOLIPHYME BATURINI IN MARTEN (MARTES AMERICANA) POPULATIONS FROM THREE REGIONS OF ALASKA, 1990â€“1998. Journal of Wildlife Diseases, 2004, 40, 452-455.	0.8	9
83	A Bayesian hierarchical model for monitoring harbor seal changes in Prince William Sound, Alaska. Environmental and Ecological Statistics, 2003, 10, 201-219.	3.5	69
84	Body size of female calves and natality rates of known-aged females in two adjacent Alaskan caribou herds, and implications for management. Rangifer, 2003, 23, 203.	0.6	2
85	Sampling and geostatistics for spatial data. Ecoscience, 2002, 9, 152-161.	1.4	42
86	Climate change and caribou: effects of summer weather on forage. Canadian Journal of Zoology, 2002, 80, 664-678.	1.0	86
87	MOVEMENTS OF SATELLITE-TAGGED SUBADULT AND ADULT HARBOR SEALS IN PRINCE WILLIAM SOUND, ALASKA. Marine Mammal Science, 2001, 17, 835-861.	1.8	68
88	SEROLOGIC SURVEY FOR CANINE CORONAVIRUS IN WOLVES FROM ALASKA. Journal of Wildlife Diseases, 2001, 37, 740-745.	0.8	16
89	SEROLOGIC SURVEY FOR TOXOPLASMA GONDII IN LYNX FROM INTERIOR ALASKA. Journal of Wildlife Diseases, 2001, 37, 36-38.	0.8	29
90	Uncertainty and Spatial Linear Models for Ecological Data. , 2001, , 214-237.		34

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91	Modeling growth of mandibles in the Western Arctic caribou herd. Rangifer, 2001, 21, 29.	0.6	1
92	Life-History Consequences of Maternal Condition in Alaskan Moose. Journal of Wildlife Management, 2000, 64, 450.	1.8	286
93	SEROLOGIC SURVEY FOR TOXOPLASMA GONDII IN SELECTED WILDLIFE SPECIES FROM ALASKA. Journal of Wildlife Diseases, 2000, 36, 219-224.	0.8	77
94	Trichinella sp. in Wolves from Interior Alaska. Journal of Wildlife Diseases, 1999, 35, 94-97.	0.8	8
95	MONITORING THE TREND OF HARBOR SEALS IN PRINCE WILLIAM SOUND, ALASKA, AFTER THE EXXON VALDEZ OIL SPILL. Marine Mammal Science, 1999, 15, 494-506.	1.8	101
96	Constructing and fitting models for cokriging and multivariable spatial prediction. Journal of Statistical Planning and Inference, 1998, 69, 275-294.	0.6	161
97	SEROLOGIC SURVEY FOR TOXOPLASMA GONDII IN GRIZZLY BEARS FROM ALASKA. Journal of Wildlife Diseases, 1997, 33, 267-270.	0.8	25
98	SEROLOGIC SURVEY FOR TRICHINELLA SPP. IN GRIZZLY BEARS FROM ALASKA. Journal of Wildlife Diseases, 1997, 33, 474-479.	0.8	10
99	SEROLOGIC SURVEY FOR PHOCID HERPESVIRUS-1 AND -2 IN MARINE MAMMALS FROM ALASKA AND RUSSIA. Journal of Wildlife Diseases, 1997, 33, 459-465.	0.8	34
100	Using hidden Markov chains and empirical Bayes change-point estimation for transect data. Environmental and Ecological Statistics, 1997, 4, 247-264.	3.5	7
101	Parametric Empirical Bayes Methods for Ecological Applications. , 1996, 6, 1047-1055.		30
102	Blackbox Kriging: Spatial Prediction without Specifying Variogram Models. Journal of Agricultural, Biological, and Environmental Statistics, 1996, 1, 297.	1.4	69
103	Spatial Heterogeneity in Eight Central Texas Grasslands. Journal of Ecology, 1995, 83, 919.	4.0	34
104	PREVALENCE OF TRICHINELLA NATIVA IN LYNX (FELIS LYNX) FROM ALASKA, 1988â€“1993. Journal of Wildlife Diseases, 1995, 31, 314-318.	0.8	8
105	Predicting Parturition Rate of Caribou from Autumn Body Mass. Journal of Wildlife Management, 1994, 58, 674.	1.8	48
106	Impacts on Distribution, Abundance, and Productivity of Harbor Seals. , 1994, , 97-118.		25
107	Case history of the Fortymile Caribou Herd, 1920-1990. Rangifer, 1994, 14, 11.	0.6	9
108	Multivariable spatial prediction. Mathematical Geosciences, 1993, 25, 219-240.	0.9	132

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109	Spatial models for spatial statistics: some unification. Journal of Vegetation Science, 1993, 4, 441-452.	2.2	52
110	Relationship between horizontal pattern and vertical structure in a chalk grassland. , 1990, , 147-155.		6
111	Relationship between horizontal pattern and vertical structure in a chalk grassland. Plant Ecology, 1989, 83, 147-155.	1.2	11
112	Multiscale ordination: a method for detecting pattern at several seales. Plant Ecology, 1989, 82, 59.	1.2	47