

Toby A Patterson

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

3,490
citations

218677

26
h-index

265206

42
g-index

45
all docs

45
docs citations

45
times ranked

4014
citing authors

#	ARTICLE	IF	CITATIONS
1	State-space models of individual animal movement. <i>Trends in Ecology and Evolution</i> , 2008, 23, 87-94.	8.7	708
2	moveHMM: an R package for the statistical modelling of animal movement data using hidden Markov models. <i>Methods in Ecology and Evolution</i> , 2016, 7, 1308-1315.	5.2	269
3	Global spatial risk assessment of sharks under the footprint of fisheries. <i>Nature</i> , 2019, 572, 461-466.	27.8	254
4	Classifying movement behaviour in relation to environmental conditions using hidden Markov models. <i>Journal of Animal Ecology</i> , 2009, 78, 1113-1123.	2.8	219
5	Movement responses to environment: fast inference of variation among southern elephant seals with a mixed effects model. <i>Ecology</i> , 2019, 100, e02566.	3.2	144
6	Important marine habitat off east Antarctica revealed by two decades of multi-species predator tracking. <i>Ecography</i> , 2015, 38, 121-129.	4.5	134
7	The trophodynamics of marine top predators: Current knowledge, recent advances and challenges. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2015, 113, 170-187.	1.4	132
8	Circumpolar habitat use in the southern elephant seal: implications for foraging success and population trajectories. <i>Ecosphere</i> , 2016, 7, e01213.	2.2	126
9	Statistical modelling of individual animal movement: an overview of key methods and a discussion of practical challenges. <i>ASTA Advances in Statistical Analysis</i> , 2017, 101, 399-438.	0.9	122
10	Analysis of animal accelerometer data using hidden Markov models. <i>Methods in Ecology and Evolution</i> , 2017, 8, 161-173.	5.2	109
11	Uncovering ecological state dynamics with hidden Markov models. <i>Ecology Letters</i> , 2020, 23, 1878-1903.	6.4	106
12	Genetic relatedness reveals total population size of white sharks in eastern Australia and New Zealand. <i>Scientific Reports</i> , 2018, 8, 2661.	3.3	98
13	Estimating animal behavior and residency from movement data. <i>Oikos</i> , 2011, 120, 1281-1290.	2.7	93
14	Feeding ecology of wild migratory tunas revealed by archival tag records of visceral warming. <i>Journal of Animal Ecology</i> , 2008, 77, 1223-1233.	2.8	90
15	Using GPS data to evaluate the accuracy of state-space methods for correction of Argos satellite telemetry error. <i>Ecology</i> , 2010, 91, 273-285.	3.2	90
16	Modelling group dynamic animal movement. <i>Methods in Ecology and Evolution</i> , 2014, 5, 190-199.	5.2	81
17	Movement and behaviour of large southern bluefin tuna (<i>Thunnus maccoyii</i>) in the Australian region determined using pop-up satellite archival tags. <i>Fisheries Oceanography</i> , 2008, 17, 352-367.	1.7	65
18	Spatial Variation in Foraging Behaviour of a Marine Top Predator (<i>Phoca vitulina</i>) Determined by a Large-Scale Satellite Tagging Program. <i>PLoS ONE</i> , 2012, 7, e37216.	2.5	65

#	ARTICLE	IF	CITATIONS
19	Behaviour and habitat preferences of bigeye tuna (<i>Thunnus obesus</i>) and their influence on longline fishery catches in the western Coral Sea. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2008, 65, 2427-2443.	1.4	61
20	Predicting feeding success in a migratory predator: integrating telemetry, environment, and modeling techniques. <i>Ecology</i> , 2010, 91, 2373-2384.	3.2	61
21	Estimation and simulation of foraging trips in land-based marine predators. <i>Ecology</i> , 2017, 98, 1932-1944.	3.2	58
22	Ecology of Weddell seals during winter: Influence of environmental parameters on their foraging behaviour. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2013, 88-89, 23-33.	1.4	52
23	Spatiotemporal distribution patterns of immature Australasian white sharks (<i>Carcharodon</i>) in the Tasman Sea. <i>Marine Biology</i> , 2015, 163, 107-118.	3.3	38
24	Multi Year Observations Reveal Variability in Residence of a Tropical Demersal Fish, <i>Lethrinus nebulosus</i> : Implications for Spatial Management. <i>PLoS ONE</i> , 2014, 9, e105507.	2.5	32
25	Network analysis of acoustic tracking data reveals the structure and stability of fish aggregations in the ocean. <i>Animal Behaviour</i> , 2013, 85, 839-848.	1.9	29
26	Determining trends and environmental drivers from long-term marine mammal and seabird data: examples from Southern Australia. <i>Regional Environmental Change</i> , 2015, 15, 197-209.	2.9	29
27	Markov models and network analysis reveal sex-specific differences in the space use of a coastal apex predator. <i>Oikos</i> , 2015, 124, 307-318.	2.7	25
28	Dynamic optimal foraging theory explains vertical migrations of Bigeye tuna. <i>Ecology</i> , 2016, 97, 1852-1861.	3.2	23
29	Oceanic diel vertical migrations arising from a predator-prey game. <i>Theoretical Ecology</i> , 2019, 12, 17-29.	1.0	23
30	Designing satellite tagging studies: estimating and optimizing data recovery. <i>Fisheries Oceanography</i> , 2011, 20, 449-461.	1.7	19
31	Objective classification of latent behavioral states in bio-logging data using multivariate normal hidden Markov models. <i>Ecological Applications</i> , 2015, 25, 1244-1258.	3.8	18
32	Evidence of diverse movement strategies and habitat use by white sharks, <i>Carcharodon carcharias</i> , off southern Australia. <i>Marine Biology</i> , 2020, 167, 1.	1.5	17
33	Reproductive Schedules in Southern Bluefin Tuna: Are Current Assumptions Appropriate?. <i>PLoS ONE</i> , 2012, 7, e34550.	2.5	15
34	Experimentally derived likelihoods for light-based geolocation. <i>Methods in Ecology and Evolution</i> , 2016, 7, 980-989.	5.2	15
35	Residency, home range and tidal habitat use of Green Turtles (<i>Chelonia mydas</i>) in Port Curtis, Australia. <i>Marine Biology</i> , 2021, 168, 1.	1.5	12
36	Modelling surfacing behaviour of southern bluefin tuna in the Great Australian Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 157-158, 179-189.	1.4	10

#	ARTICLE	IF	CITATIONS
37	Migration dynamics of juvenile southern bluefin tuna. <i>Scientific Reports</i> , 2018, 8, 14553.	3.3	10
38	Scaling marine fish movement behavior from individuals to populations. <i>Ecology and Evolution</i> , 2018, 8, 7031-7043.	1.9	10
39	Accounting for Location Error in Kalman Filters: Integrating Animal Borne Sensor Data into Assimilation Schemes. <i>PLoS ONE</i> , 2012, 7, e42093.	2.5	6
40	Southern bluefin tuna habitat use and residence patterns in the Great Australia Bight. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 157-158, 169-178.	1.4	6
41	A summary of oil and gas exploration in the Great Australian Bight with particular reference to southern bluefin tuna. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 157-158, 190-202.	1.4	5
42	Designing acoustic arrays for estimation of mortality rates in riverine and estuarine systems. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2019, 76, 1471-1479.	1.4	5
43	Determining effective acoustic array design for monitoring presence of white sharks <i>Carcharodon carcharias</i> in nearshore habitats. <i>Marine Biology</i> , 2021, 168, 1.	1.5	1