

# George Wittemyer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7966376/publications.pdf>

Version: 2024-02-01

117  
papers

6,693  
citations

87888

38  
h-index

71685

76  
g-index

121  
all docs

121  
docs citations

121  
times ranked

7059  
citing authors

#	ARTICLE	IF	CITATIONS
1	Risk perception and tolerance shape variation in agricultural use for a transboundary elephant population. <i>Journal of Animal Ecology</i> , 2022, 91, 112-123.	2.8	8
2	Socio-ecological drivers of public conservation voting: Restoring gray wolves to Colorado, USA. <i>Ecological Applications</i> , 2022, 32, e2532.	3.8	12
3	Landscape Dynamics (landDX) an open-access spatial-temporal database for the Kenya-Tanzania borderlands. <i>Scientific Data</i> , 2022, 9, 8.	5.3	5
4	A global community-sourced assessment of the state of conservation technology. <i>Conservation Biology</i> , 2022, 36, .	4.7	9
5	Accounting for animal movement improves vaccination strategies against wildlife disease in heterogeneous landscapes. <i>Ecological Applications</i> , 2022, 32, e2568.	3.8	10
6	Identifying conservation technology needs, barriers, and opportunities. <i>Scientific Reports</i> , 2022, 12, 4802.	3.3	3
7	Expert range maps of global mammal distributions harmonised to three taxonomic authorities. <i>Journal of Biogeography</i> , 2022, 49, 979-992.	3.0	41
8	A model for leveraging animal movement to understand spatio-temporal disease dynamics. <i>Ecology Letters</i> , 2022, 25, 1290-1304.	6.4	16
9	Movement behaviour after birth demonstrates precocial abilities of African savannah elephant, <i>Loxodonta africana</i> , calves. <i>Animal Behaviour</i> , 2022, 187, 331-353.	1.9	2
10	Simple metrics to characterize inter-individual and temporal variation in habitat selection behaviour. <i>Journal of Animal Ecology</i> , 2022, 91, 1693-1706.	2.8	5
11	Defining ecological and socially suitable habitat for the reintroduction of an apex predator. <i>Global Ecology and Conservation</i> , 2022, 38, e02192.	2.1	6
12	Defining an epidemiological landscape that connects movement ecology to pathogen transmission and pace-of-life. <i>Ecology Letters</i> , 2022, 25, 1760-1782.	6.4	18
13	Characterizing the landscape of movement to identify critical wildlife habitat and corridors. <i>Conservation Biology</i> , 2021, 35, 346-359.	4.7	19
14	Multi-level movement response of invasive wild pigs ( <i>Sus scrofa</i> ) to removal. <i>Pest Management Science</i> , 2021, 77, 85-95.	3.4	9
15	Insights on the effect of aircraft traffic on avian vocal activity. <i>Ibis</i> , 2021, 163, 353-365.	1.9	6
16	Entry and aggregation at a Central African bai reveal social patterns in the elusive forest elephant <i>Loxodonta cyclotis</i> . <i>Animal Behaviour</i> , 2021, 171, 77-85.	1.9	8
17	Effects of social structure and management on risk of disease establishment in wild pigs. <i>Journal of Animal Ecology</i> , 2021, 90, 820-833.	2.8	21
18	Noise and landscape features influence habitat use of mammalian herbivores in a natural gas field. <i>Journal of Animal Ecology</i> , 2021, 90, 875-885.	2.8	4

#	ARTICLE	IF	CITATIONS
19	A synthesis of health benefits of natural sounds and their distribution in national parks. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	87
20	Detecting community structure in wild populations: a simulation study based on male elephant, <i>Loxodonta africana</i> , data. <i>Animal Behaviour</i> , 2021, 174, 127-148.	1.9	1
21	Disturbance type and species life history predict mammal responses to humans. <i>Global Change Biology</i> , 2021, 27, 3718-3731.	9.5	62
22	Human footprint and protected areas shape elephant range across Africa. <i>Current Biology</i> , 2021, 31, 2437-2445.e4.	3.9	48
23	Some Memories Never Fade: Inferring Multi-Scale Memory Effects on Habitat Selection of a Migratory Ungulate Using Step-Selection Functions. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	6
24	Differential influence of human impacts on age-specific demography underpins trends in an African elephant population. <i>Ecosphere</i> , 2021, 12, e03720.	2.2	8
25	Spatial variation in direct and indirect contact rates at the wildlife-livestock interface for informing disease management. <i>Preventive Veterinary Medicine</i> , 2021, 194, 105423.	1.9	13
26	Poaching of African elephants indirectly decreases population growth through lowered orphan survival. <i>Current Biology</i> , 2021, 31, 4156-4162.e5.	3.9	15
27	Behavioral and Demographic Responses of Mule Deer to Energy Development on Winter Range. <i>Wildlife Monographs</i> , 2021, 208, 1-37.	3.0	17
28	Parallel Pandemics Illustrate the Need for One Health Solutions. <i>Frontiers in Microbiology</i> , 2021, 12, 718546.	3.5	4
29	Movement reveals reproductive tactics in male elephants. <i>Journal of Animal Ecology</i> , 2020, 89, 57-67.	2.8	23
30	Varying behavioral responses of wildlife to motorcycle traffic. <i>Global Ecology and Conservation</i> , 2020, 21, e00844.	2.1	11
31	Elephant behavior toward the dead: A review and insights from field observations. <i>Primates</i> , 2020, 61, 119-128.	1.1	34
32	Landscape-scale habitat response of African elephants shows strong selection for foraging opportunities in a human dominated ecosystem. <i>Ecography</i> , 2020, 43, 149-160.	4.5	22
33	Strongylid infection varies with age, sex, movement and social factors in wild African elephants. <i>Parasitology</i> , 2020, 147, 348-359.	1.5	9
34	Vocal characteristics of prairie dog alarm calls across an urban noise gradient. <i>Behavioral Ecology</i> , 2020, 31, 393-400.	2.2	4
35	High-resolution stable isotope profiles of modern elephant ( <i>Loxodonta africana</i> ) tusk dentin and tail hair from Kenya: Implications for identifying seasonal variability in climate, ecology, and diet in ancient proboscideans. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 559, 109962.	2.3	10
36	Forward and inverse methods for extracting climate and diet information from stable isotope profiles in proboscidean molars. <i>Quaternary International</i> , 2020, 557, 92-109.	1.5	11

#	ARTICLE	IF	CITATIONS
37	The elephant in the room: Madagascar's rosewood stocks and stockpiles. <i>Conservation Letters</i> , 2020, 13, e12714.	5.7	8
38	The relationship between anthropogenic light and noise in U.S. national parks. <i>Landscape Ecology</i> , 2020, 35, 1371-1384.	4.2	13
39	Behavioural valuation of landscapes using movement data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180046.	4.0	46
40	Anthropogenic noise in <scp>US</scp> national parks â€“ sources and spatial extent. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 559-564.	4.0	22
41	On-animal acoustic monitoring provides insight to ungulate foraging behavior. <i>Journal of Mammalogy</i> , 2019, 100, 1479-1489.	1.3	5
42	Predicting the risk of illegal activity and evaluating law enforcement interventions in the western Serengeti. <i>Conservation Science and Practice</i> , 2019, 1, e81.	2.0	5
43	Animal-Borne Anti-Poaching System. , 2019, , .		5
44	Leveraging multidimensional heterogeneity in resource selection to define movement tactics of animals. <i>Ecology Letters</i> , 2019, 22, 1417-1427.	6.4	38
45	Increasing conservation translocation success by building social functionality in released populations. <i>Global Ecology and Conservation</i> , 2019, 18, e00604.	2.1	35
46	Alarm call modification by prairie dogs in the presence of juveniles. <i>Journal of Ethology</i> , 2019, 37, 167-174.	0.8	7
47	Efficacy of extracting indices from large-scale acoustic recordings to monitor biodiversity. <i>Conservation Biology</i> , 2018, 32, 1174-1184.	4.7	118
48	Optimizing the positioning of wildlife crossing structures using GPS telemetry. <i>Journal of Applied Ecology</i> , 2018, 55, 2055-2063.	4.0	13
49	Applying network theory to animal movements to identify properties of landscape space use. <i>Ecological Applications</i> , 2018, 28, 854-864.	3.8	29
50	Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. <i>Science</i> , 2018, 359, 466-469.	12.6	783
51	Predation risk across a dynamic landscape: effects of anthropogenic land use, natural landscape features, and prey distribution. <i>Landscape Ecology</i> , 2018, 33, 157-170.	4.2	22
52	Pairing camera traps and acoustic recorders to monitor the ecological impact of human disturbance. <i>Global Ecology and Conservation</i> , 2018, 16, e00493.	2.1	34
53	Modeling anthropogenic noise impacts on animals in natural areas. <i>Landscape and Urban Planning</i> , 2018, 180, 76-84.	7.5	6
54	Inter-generational change in African elephant range use is associated with poaching risk, primary productivity and adult mortality. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180286.	2.6	22

#	ARTICLE	IF	CITATIONS
55	Orphaning and natal group dispersal are associated with social costs in female elephants. <i>Animal Behaviour</i> , 2018, 143, 1-8.	1.9	26
56	Demography of a forest elephant population. <i>PLoS ONE</i> , 2018, 13, e0192777.	2.5	25
57	New elephant crisis in Asia—Early warning signs from Myanmar. <i>PLoS ONE</i> , 2018, 13, e0194113.	2.5	35
58	Graph theory illustrates spatial and temporal features that structure elephant rest locations and reflect risk perception. <i>Ecography</i> , 2017, 40, 598-605.	4.5	29
59	Noise pollution is pervasive in U.S. protected areas. <i>Science</i> , 2017, 356, 531-533.	12.6	203
60	Changes in circadian activity patterns of a wildlife community post high-intensity energy development. <i>Journal of Mammalogy</i> , 2017, , .	1.3	7
61	Modeling anthropogenic noise propagation using the Sound Mapping Tools ArcGIS toolbox. <i>Environmental Modelling and Software</i> , 2017, 97, 56-60.	4.5	16
62	Orphaned female elephant social bonds reflect lack of access to mature adults. <i>Scientific Reports</i> , 2017, 7, 14408.	3.3	35
63	Slow intrinsic growth rate in forest elephants indicates recovery from poaching will require decades. <i>Journal of Applied Ecology</i> , 2017, 54, 153-159.	4.0	39
64	Fission—fusion processes weaken dominance networks of female Asian elephants in a productive habitat. <i>Behavioral Ecology</i> , 2017, 28, 243-252.	2.2	48
65	Environmental dynamics and anthropogenic development alter philopatry and space use in a North American cervid. <i>Diversity and Distributions</i> , 2016, 22, 547-557.	4.1	21
66	Evidence of strong spatial segregation between elephant subpopulations in the contiguous Laikipia—Samburu ecosystem in Kenya. <i>African Journal of Ecology</i> , 2016, 54, 261-264.	0.9	0
67	A synthesis of two decades of research documenting the effects of noise on wildlife. <i>Biological Reviews</i> , 2016, 91, 982-1005.	10.4	541
68	Road noise causes earlier predator detection and flight response in a free-ranging mammal. <i>Behavioral Ecology</i> , 2016, 27, 1370-1375.	2.2	40
69	Illegal wildlife trade: Look to the elephants. <i>Science</i> , 2016, 353, 1507-1507.	12.6	4
70	Movement reveals scale dependence in habitat selection of a large ungulate. <i>Ecological Applications</i> , 2016, 26, 2746-2757.	3.8	24
71	Vertical Transmission of Social Roles Drives Resilience to Poaching in Elephant Networks. <i>Current Biology</i> , 2016, 26, 75-79.	3.9	84
72	Forecasting Ecological Genomics: High-Tech Animal Instrumentation Meets High-Throughput Sequencing. <i>PLoS Biology</i> , 2016, 14, e1002350.	5.6	22

#	ARTICLE	IF	CITATIONS
73	Quantifying spatial habitat loss from hydrocarbon development through assessing habitat selection patterns of mule deer. <i>Global Change Biology</i> , 2015, 21, 3961-3970.	9.5	65
74	Landscape and anthropogenic features influence the use of auditory vigilance by mule deer. <i>Behavioral Ecology</i> , 2015, 26, 75-82.	2.2	45
75	Developing fencing policies for dryland ecosystems. <i>Journal of Applied Ecology</i> , 2015, 52, 544-551.	4.0	64
76	Elucidating the significance of spatial memory on movement decisions by African savannah elephants using stateâ€‘space models. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20143042.	2.6	112
77	Using Poaching Levels and Elephant Distribution to Assess the Conservation Efficacy of Private, Communal and Government Land in Northern Kenya. <i>PLoS ONE</i> , 2015, 10, e0139079.	2.5	37
78	Novel opportunities for wildlife conservation and research with realâ€‘time monitoring. <i>Ecological Applications</i> , 2014, 24, 593-601.	3.8	89
79	Illegal killing for ivory drives global decline in African elephants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13117-13121.	7.1	288
80	Effects of helicopter capture and handling on movement behavior of mule deer. <i>Journal of Wildlife Management</i> , 2014, 78, 731-738.	1.8	46
81	Fineâ€‘scale genetic correlates to condition and migration in a wild cervid. <i>Evolutionary Applications</i> , 2014, 7, 937-948.	3.1	22
82	Assessing species occurrence and speciesâ€‘specific use patterns of bais (forest clearings) in Central Africa with camera traps. <i>African Journal of Ecology</i> , 2014, 52, 59-68.	0.9	25
83	Differentiation in mineral constituents in elephant selected versus unselected water and soil resources at Central African bais (forest clearings). <i>European Journal of Wildlife Research</i> , 2014, 60, 377-382.	1.4	14
84	Controlling for behavioural state reveals social dynamics among male African elephants, <i>Loxodonta africana</i> . <i>Animal Behaviour</i> , 2014, 95, 111-119.	1.9	40
85	Elliptical Timeâ€‘Density model to estimate wildlife utilization distributions. <i>Methods in Ecology and Evolution</i> , 2014, 5, 780-790.	5.2	18
86	The Influence of Social Structure, Habitat, and Host Traits on the Transmission of <i>Escherichia coli</i> in Wild Elephants. <i>PLoS ONE</i> , 2014, 9, e93408.	2.5	32
87	Characterizing properties and drivers of long distance movements by elephants ( <i>Loxodonta africana</i> ) in the Gourma, Mali. <i>Biological Conservation</i> , 2013, 157, 60-68.	4.1	60
88	Using diel movement behavior to infer foraging strategies related to ecological and social factors in elephants. <i>Movement Ecology</i> , 2013, 1, 13.	2.8	18
89	Characterising the impacts of emerging energy development on wildlife, with an eye towards mitigation. <i>Ecology Letters</i> , 2013, 16, 112-125.	6.4	215
90	Bomb-curve radiocarbon measurement of recent biologic tissues and applications to wildlife forensics and stable isotope (paleo)ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11736-11741.	7.1	65

#	ARTICLE	IF	CITATIONS
91	The use of onâ€animal acoustical recording devices for studying animal behavior. <i>Ecology and Evolution</i> , 2013, 3, 2030-2037.	1.9	45
92	Demographic Variables for Wild Asian Elephants Using Longitudinal Observations. <i>PLoS ONE</i> , 2013, 8, e82788.	2.5	46
93	Comparative Demography of an At-Risk African Elephant Population. <i>PLoS ONE</i> , 2013, 8, e53726.	2.5	81
94	Devastating Decline of Forest Elephants in Central Africa. <i>PLoS ONE</i> , 2013, 8, e59469.	2.5	266
95	Long-Term Monitoring of Dzanga Bai Forest Elephants: Forest Clearing Use Patterns. <i>PLoS ONE</i> , 2013, 8, e85154.	2.5	43
96	A Comparison of Social Organization in Asian Elephants and African Savannah Elephants. <i>International Journal of Primatology</i> , 2012, 33, 1125-1141.	1.9	94
97	Will Elephants Soon Disappear from West African Savannahs?. <i>PLoS ONE</i> , 2011, 6, e20619.	2.5	82
98	Inferring ecological and behavioral drivers of African elephant movement using a linear filtering approach. <i>Ecology</i> , 2011, 92, 1648-1657.	3.2	39
99	Effects of Economic Downturns on Mortality of Wild African Elephants. <i>Conservation Biology</i> , 2011, 25, 1002-1009.	4.7	30
100	A framework for understanding the architecture of collective movements using pairwise analyses of animal movement data. <i>Journal of the Royal Society Interface</i> , 2011, 8, 322-333.	3.4	13
101	Rising ivory prices threaten elephants. <i>Nature</i> , 2011, 476, 282-283.	27.8	26
102	From moonlight to movement and synchronized randomness: Fourier and wavelet analyses of animal location time series data. <i>Ecology</i> , 2010, 91, 1506-1518.	3.2	65
103	Employing participatory surveys to monitor the illegal killing of elephants across diverse land uses in Laikipiaâ€Samburu, Kenya. <i>African Journal of Ecology</i> , 2010, 48, 972-983.	0.9	27
104	Elephants, Ivory, and Trade. <i>Science</i> , 2010, 327, 1331-1332.	12.6	48
105	History of Animals using Isotope Records (HAIR): A 6-year dietary history of one family of African elephants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8093-8100.	7.1	96
106	Where sociality and relatedness diverge: the genetic basis for hierarchical social organization in African elephants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3513-3521.	2.6	69
107	Establishing chronologies from isotopic profiles in serially collected animal tissues: An example using tail hairs from African elephants. <i>Chemical Geology</i> , 2009, 267, 3-11.	3.3	36
108	Population Genetic Structure of Savannah Elephants in Kenya: Conservation and Management Implications. <i>Journal of Heredity</i> , 2008, 99, 443-452.	2.4	33

#	ARTICLE	IF	CITATIONS
109	Accelerated Human Population Growth at Protected Area Edges. <i>Science</i> , 2008, 321, 123-126.	12.6	534
110	Disentangling the effects of forage, social rank, and risk on movement autocorrelation of elephants using Fourier and wavelet analyses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19108-19113.	7.1	95
111	The impact of ecological variability on the reproductive endocrinology of wild female African elephants. <i>Hormones and Behavior</i> , 2007, 51, 346-354.	2.1	45
112	Breeding phenology in relation to NDVI variability in free-ranging African elephant. <i>Ecography</i> , 2007, 30, 42-50.	4.5	101
113	Predicting time-specific changes in demographic processes using remote-sensing data. <i>Journal of Applied Ecology</i> , 2006, 43, 366-376.	4.0	48
114	Behavioural reactions of elephants towards a dying and deceased matriarch. <i>Applied Animal Behaviour Science</i> , 2006, 100, 87-102.	1.9	183
115	Stable isotopes in elephant hair document migration patterns and diet changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 371-373.	7.1	193
116	Estimating age of immobilized elephants from teeth impressions using dental silicon. <i>African Journal of Ecology</i> , 2005, 43, 215-219.	0.9	29
117	The elephant population of Samburu and Buffalo Springs National Reserves, Kenya. <i>African Journal of Ecology</i> , 2001, 39, 357-365.	0.9	73