Erin A Mordecai

List of Publications by Year in Descending Order

74 papers	3,190 citations	27 h-index	56 g-index
112 ext. papers	4,595 ext. citations	6.1 avg, IF	5.82 L-index

#	Paper	IF	Citations
74	Household and climate factors influence Aedes aegypti presence in the arid city of Huaquillas, Ecuador. *PLoS Neglected Tropical Diseases*, **2021**, 15, e0009931	4.8	2
73	Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover. *Current Biology*, **2021**, 31, R1342-R1361	6.3	5
72	Chopping the tail: How preventing superspreading can help to maintain COVID-19 control. *Epidemics*, **2021**, 34, 100430	5.1	24
71	Effects of changes in temperature on Zika dynamics and control. *Journal of the Royal Society Interface*, **2021**, 18, 20210165	4.1	0
70	Understanding the emergence of contingent and deterministic exclusion in multispecies communities. *Ecology Letters*, **2021**, 24, 2155-2168	10	1
69	Impact of prior and projected climate change on US Lyme disease incidence. *Global Change Biology*, **2021**, 27, 738-754	11.4	6
68	Warming temperatures could expose more than 1.3 billion new people to Zika virus risk by 2050. *Global Change Biology*, **2021**, 27, 84-93	11.4	15
67	Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland. *Journal of Ecology*, **2021**, 109, 900-912	6	0
66	Susceptible host availability modulates climate effects on dengue dynamics. *Ecology Letters*, **2021**, 24, 415-425	10	0
65	The influence of vector-borne disease on human history: socio-ecological mechanisms. *Ecology Letters*, **2021**, 24, 829-846	10	3
64	Climate predicts geographic and temporal variation in mosquito-borne disease dynamics on two continents. *Nature Communications*, **2021**, 12, 1233	17.4	9
63	How will mosquitoes adapt to climate warming?. *ELife*, **2021**, 10,	8.9	10
62	Physiology and ecology combine to determine host and vector importance for Ross River virus. *ELife*, **2021**, 10,	8.9	3
61	The impact of long-term non-pharmaceutical interventions on COVID-19 epidemic dynamics and control: the value and limitations of early models. *Proceedings of the Royal Society B: Biological Sciences*, **2021**, 288, 20210811	4.4	9
60	The Role of Vector Trait Variation in Vector-Borne Disease Dynamics. *Frontiers in Ecology and Evolution*, **2020**, 8,	3.7	19
59	Transmission of West Nile and five other temperate mosquito-borne viruses peaks at temperatures between 23°C and 26°C. *ELife*, **2020**, 9,	8.9	29
58	Environmental Drivers of Vector-Borne Diseases **2020**, 85-118		3

(2018-2020)

57	The impact of long-term non-pharmaceutical interventions on COVID-19 epidemic dynamics and control **2020**,		18
56	Chopping the tail: how preventing superspreading can help to maintain COVID-19 control **2020**,		9
55	Towards common ground in the biodiversity-disease debate. *Nature Ecology and Evolution*, **2020**, 4, 24-33	12.3	83
54	AeDES: a next-generation monitoring and forecasting system for environmental suitability of Aedes-borne disease transmission. *Scientific Reports*, **2020**, 10, 12640	4.9	8
53	Age influences the thermal suitability of transmission in the Asian malaria vector. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201093	4.4	11
52	Climate change could shift disease burden from malaria to arboviruses in Africa. *Lancet Planetary Health, The*, **2020**, 4, e416-e423	9.8	42
51	Priority Effects and Nonhierarchical Competition Shape Species Composition in a Complex Grassland Community. *American Naturalist*, **2019**, 193, 213-226	3.7	18
50	Climate drives spatial variation in Zika epidemics in Latin America. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191578	4.4	10
49	Malaria smear positivity among Kenyan children peaks at intermediate temperatures as predicted by ecological models. *Parasites and Vectors*, **2019**, 12, 288	4	13
48	Global expansion and redistribution of Aedes-borne virus transmission risk with climate change. *PLoS Neglected Tropical Diseases*, **2019**, 13, e0007213	4.8	204
47	Dynamic and integrative approaches to understanding pathogen spillover. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20190014	5.8	28
46	Mosquito and primate ecology predict human risk of yellow fever virus spillover in Brazil. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180335	5.8	22
45	The problem of scale in the prediction and management of pathogen spillover. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20190224	5.8	20
44	Thermal biology of mosquito-borne disease. *Ecology Letters*, **2019**, 22, 1690-1708	10	143
43	Amazon deforestation drives malaria transmission, and malaria burden reduces forest clearing. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 22212-22218	11.5	64
42	An open challenge to advance probabilistic forecasting for dengue epidemics. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24268-24274	11.5	64
41	Phenomenological forecasting of disease incidence using heteroskedastic Gaussian processes: A dengue case study. *Annals of Applied Statistics*, **2018**, 12,	2.1	20
40	Estimating the effects of variation in viremia on mosquito susceptibility, infectiousness, and R0 of Zika in Aedes aegypti. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006733	4.8	17

39	Temperature drives Zika virus transmission: evidence from empirical and mathematical models. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	81
38	Temperature explains broad patterns of Ross River virus transmission. *ELife*, **2018**, 7,	8.9	36
37	A global test of ecoregions. *Nature Ecology and Evolution*, **2018**, 2, 1889-1896	12.3	40
36	Foliar pathogens are unlikely to stabilize coexistence of competing species in a California grassland. *Ecology*, **2018**, 99, 2250-2259	4.6	11
35	Seasonal temperature variation influences climate suitability for dengue, chikungunya, and Zika transmission. *PLoS Neglected Tropical Diseases*, **2018**, 12, e0006451	4.8	48
34	Disease ecology, health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical diseases. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	55
33	Environmental and Social Change Drive the Explosive Emergence of Zika Virus in the Americas. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005135	4.8	84
32	Detecting the impact of temperature on transmission of Zika, dengue, and chikungunya using mechanistic models. *PLoS Neglected Tropical Diseases*, **2017**, 11, e0005568	4.8	258
31	Within-Host Niche Differences and Fitness Trade-offs Promote Coexistence of Plant Viruses. *American Naturalist*, **2016**, 187, E13-26	3.7	15
30	A framework for priority effects. *Journal of Vegetation Science*, **2016**, 27, 655-657	3.1	43
29	The role of drought- and disturbance-mediated competition in shaping community responses to varied environments. *Oecologia*, **2016**, 181, 621-32	2.9	17
28	The rise and fall of infectious disease in a warmer world. *F1000Research*, **2016**, 5,	3.6	44
27	Mathematical models are a powerful method to understand and control the spread of Huanglongbing. *PeerJ*, **2016**, 4, e2642	3.1	32
26	The role of competition - colonization tradeoffs and spatial heterogeneity in promoting trematode coexistence. *Ecology*, **2016**, 97, 1484-1496	4.6	11
25	Mapping the Distribution of Malaria: Current Approaches and Future Directions. *Wiley Series in Probability and Statistics*, **2015**, 189-209	1.3	4
24	Pathogen impacts on plant diversity in variable environments. *Oikos*, **2015**, 124, 414-420	4	15
23	Controls over native perennial grass exclusion and persistence in California grasslands invaded by annuals. *Ecology*, **2015**, 96, 2643-52	4.6	13
22	The community ecology of pathogens: coinfection, coexistence and community composition. *Ecology Letters*, **2015**, 18, 401-15	10	96

21	Mapping Physiological Suitability Limits for Malaria in Africa Under Climate Change. *Vector-Borne and Zoonotic Diseases*, **2015**, 15, 718-25	2.4	80
20	Understanding uncertainty in temperature effects on vector-borne disease: a Bayesian approach. *Ecology*, **2015**, 96, 203-13	4.6	55
19	Differential Impacts of Virus Diversity on Biomass Production of a Native and an Exotic Grass Host. *PLoS ONE*, **2015**, 10, e0134355	3.7	5
18	Optimal temperature for malaria transmission is dramatically lower than previously predicted. *Ecology Letters*, **2013**, 16, 22-30	10	315
17	Consequences of pathogen spillover for cheatgrass-invaded grasslands: coexistence, competitive exclusion, or priority effects. *American Naturalist*, **2013**, 181, 737-47	3.7	21
16	Despite spillover, a shared pathogen promotes native plant persistence in a cheatgrass-invaded grassland. *Ecology*, **2013**, 94, 2744-53	4.6	33
15	Soil moisture and fungi affect seed survival in California grassland annual plants. *PLoS ONE*, **2012**, 7, e39083	3.7	40
14	Pathogen impacts on plant communities: unifying theory, concepts, and empirical work. *Ecological Monographs*, **2011**, 81, 429-441	9	153
13	Competition-defense tradeoffs and the maintenance of plant diversity. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17217-22	11.5	61
12	Soil moisture mediated interaction between Polygonatum biflorum and leaf spot disease. *Plant Ecology*, **2010**, 209, 1-9	1.7	10
11	Parasites in food webs: the ultimate missing links. *Ecology Letters*, **2008**, 11, 533-46	10	559
10	Estimating the effects of variation in viremia on mosquito susceptibility, infectiousness, and R0 of Zika in Aedes aegypti		1
9	Climate drives spatial variation in Zika epidemics in Latin America		1
8	Scaling effects of temperature on parasitism from individuals to host parasite systems		1
7	Detecting the impact of temperature on transmission of Zika, dengue and chikungunya using mechanistic models		6
6	Global expansion and redistribution of Aedes-borne virus transmission risk with climate change		5
5	Household and climate factors influence Aedes aegypti risk in the arid city of Huaquillas, Ecuador		1
4	Warming temperatures could expose more than 1.3 billion new people to Zika virus risk by 2050		1

3	Seasonal temperature variation influences climate suitability for dengue, chikungunya, and Zika transmission	2
2	Temperature drives Zika virus transmission: evidence from empirical and mathematical models	2
1	Transmission of West Nile and other temperate mosquito-borne viruses peaks at intermediate environmental temperatures	2