

# Shweta Bansal

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

4,529  
citations

185998

28  
h-index

123241

61  
g-index

98  
all docs

98  
docs citations

98  
times ranked

5403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fine-scale spatial patterns of wildlife disease are common and understudied. <i>Functional Ecology</i> , 2022, 36, 214-225.	1.7	19
2	Dissecting recurrent waves of pertussis across the boroughs of London. <i>PLoS Computational Biology</i> , 2022, 18, e1009898.	1.5	3
3	Climate change increases cross-species viral transmission risk. <i>Nature</i> , 2022, 607, 555-562.	13.7	361
4	Characterizing the Spatiotemporal Heterogeneity of the COVID-19 Vaccination Landscape. <i>American Journal of Epidemiology</i> , 2022, 191, 1792-1802.	1.6	18
5	Addressing the socioeconomic divide in computational modeling for infectious diseases. <i>Nature Communications</i> , 2022, 13, .	5.8	20
6	Spatial aggregation choice in the era of digital and administrative surveillance data. , 2022, 1, e0000039.		4
7	Socioeconomic Disparities in Social Distancing During the COVID-19 Pandemic in the United States: Observational Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e24591.	2.1	69
8	Health inequities in influenza transmission and surveillance. <i>PLoS Computational Biology</i> , 2021, 17, e1008642.	1.5	21
9	Highlighting socio-economic constraints on mobility reductions during COVID-19 restrictions in France can inform effective and equitable pandemic response. <i>Journal of Travel Medicine</i> , 2021, 28, .	1.4	27
10	The missing season: The impacts of the COVID-19 pandemic on influenza. <i>Vaccine</i> , 2021, 39, 3645-3648.	1.7	35
11	Social fluidity mobilizes contagion in human and animal populations. <i>ELife</i> , 2021, 10, .	2.8	6
12	From flames to inflammation: how wildfires affect patterns of wildlife disease. <i>Fire Ecology</i> , 2021, 17, .	1.1	18
13	Unifying spatial and social network analysis in disease ecology. <i>Journal of Animal Ecology</i> , 2021, 90, 45-61.	1.3	68
14	Revealing mechanisms of infectious disease spread through empirical contact networks. <i>PLoS Computational Biology</i> , 2021, 17, e1009604.	1.5	9
15	Sociality and tattoo skin disease among bottlenose dolphins in Shark Bay, Australia. <i>Behavioral Ecology</i> , 2020, 31, 459-466.	1.0	10
16	Getting Personal: How Childhood Vaccination Policies Shape the Landscape of Vaccine Exemptions. <i>Open Forum Infectious Diseases</i> , 2020, 7, ofaa088.	0.4	12
17	Misconceptions about weather and seasonality must not misguide COVID-19 response. <i>Nature Communications</i> , 2020, 11, 4312.	5.8	124
18	The landscape of childhood vaccine exemptions in the United States. <i>Scientific Data</i> , 2020, 7, 401.	2.4	6

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19	Negative density-dependent parasitism in a group-living carnivore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20202655.	1.2	14
20	Sex, synchrony, and skin contact: integrating multiple behaviors to assess pathogen transmission risk. <i>Behavioral Ecology</i> , 2020, 31, 651-660.	1.0	18
21	Global estimates of mammalian viral diversity accounting for host sharing. <i>Nature Ecology and Evolution</i> , 2019, 3, 1070-1075.	3.4	94
22	A multi-species repository of social networks. <i>Scientific Data</i> , 2019, 6, 44.	2.4	44
23	Ant colonies maintain social homeostasis in the face of decreased density. <i>ELife</i> , 2019, 8, .	2.8	12
24	Epidemiological investigation of tattoo-like skin lesions among bottlenose dolphins in Shark Bay, Australia. <i>Science of the Total Environment</i> , 2018, 630, 774-780.	3.9	16
25	Disease implications of animal social network structure: A synthesis across social systems. <i>Journal of Animal Ecology</i> , 2018, 87, 546-558.	1.3	96
26	Spatiotemporal Patterns and Diffusion of the 1918 Influenza Pandemic in British India. <i>American Journal of Epidemiology</i> , 2018, 187, 2550-2560.	1.6	16
27	The reachability of contagion in temporal contact networks: how disease latency can exploit the rhythm of human behavior. <i>BMC Infectious Diseases</i> , 2018, 18, 219.	1.3	16
28	Deploying digital health data to optimize influenza surveillance at national and local scales. <i>PLoS Computational Biology</i> , 2018, 14, e1006020.	1.5	29
29	Contact, travel, and transmission: The impact of winter holidays on influenza dynamics in the United States. <i>Journal of Infectious Diseases</i> , 2017, 215, jiw642.	1.9	37
30	Data-Driven Models of Foot-and-Mouth Disease Dynamics: A Review. <i>Transboundary and Emerging Diseases</i> , 2017, 64, 716-728.	1.3	31
31	Unraveling the disease consequences and mechanisms of modular structure in animal social networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4165-4170.	3.3	142
32	Host contact and shedding patterns clarify variation in pathogen exposure and transmission in threatened tortoise <i>Gopherus agassizii</i> : implications for disease modelling and management. <i>Journal of Animal Ecology</i> , 2016, 85, 829-842.	1.3	43
33	Increasing herd immunity with influenza revaccination. <i>Epidemiology and Infection</i> , 2016, 144, 1267-1277.	1.0	5
34	Early sub-exponential epidemic growth: Simple models, nonlinear incidence rates, and additional mechanisms. <i>Physics of Life Reviews</i> , 2016, 18, 114-117.	1.5	2
35	Mathematical models to characterize early epidemic growth: A review. <i>Physics of Life Reviews</i> , 2016, 18, 66-97.	1.5	297
36	Mind the Scales: Harnessing Spatial Big Data for Infectious Disease Surveillance and Inference. <i>Journal of Infectious Diseases</i> , 2016, 214, S409-S413.	1.9	59

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37	Big Data for Infectious Disease Surveillance and Modeling. <i>Journal of Infectious Diseases</i> , 2016, 214, S375-S379.	1.9	195
38	Using heterogeneity in the population structure of U.S. swine farms to compare transmission models for porcine epidemic diarrhoea. <i>Scientific Reports</i> , 2016, 6, 22248.	1.6	12
39	Inferring social structure and its drivers from refuge use in the desert tortoise, a relatively solitary species. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 1277-1289.	0.6	28
40	Social, spatial and temporal organization in a complex insect society. <i>Scientific Reports</i> , 2015, 5, 13393.	1.6	41
41	Detecting signals of seasonal influenza severity through age dynamics. <i>BMC Infectious Diseases</i> , 2015, 15, 587.	1.3	15
42	Modeling infectious disease dynamics in the complex landscape of global health. <i>Science</i> , 2015, 347, aaa4339.	6.0	492
43	Eight challenges for network epidemic models. <i>Epidemics</i> , 2015, 10, 58-62.	1.5	147
44	Six challenges in measuring contact networks for use in modelling. <i>Epidemics</i> , 2015, 10, 72-77.	1.5	74
45	Assessing the use of antiviral treatment to control influenza. <i>Epidemiology and Infection</i> , 2015, 143, 1621-1631.	1.0	7
46	Nine challenges in incorporating the dynamics of behaviour in infectious diseases models. <i>Epidemics</i> , 2015, 10, 21-25.	1.5	174
47	Disease dynamics during wildlife translocations: disruptions to the host population and potential consequences for transmission in desert tortoise contact networks. <i>Animal Conservation</i> , 2014, 17, 27-39.	1.5	51
48	Exploring community structure in biological networks with random graphs. <i>BMC Bioinformatics</i> , 2014, 15, 220.	1.2	64
49	Inferring population-level contact heterogeneity from common epidemic data. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120578.	1.5	19
50	Mixed Methods Pilot Study of Sharing Behaviors among Waterpipe Smokers of Rural Lao PDR: Implications for Infectious Disease Transmission. <i>International Journal of Environmental Research and Public Health</i> , 2013, 10, 2120-2132.	1.2	16
51	Comparative Assessment of Some Target Detection Algorithms for Hyperspectral Images. <i>Defence Science Journal</i> , 2013, 63, 53-62.	0.5	8
52	The impact of past epidemics on future disease dynamics. <i>Journal of Theoretical Biology</i> , 2012, 309, 176-184.	0.8	33
53	Statistical inference to advance network models in epidemiology. <i>Epidemics</i> , 2011, 3, 38-45.	1.5	46
54	Fast Community Detection for Dynamic Complex Networks. <i>Communications in Computer and Information Science</i> , 2011, , 196-207.	0.4	35

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55	The dynamic nature of contact networks in infectious disease epidemiology. <i>Journal of Biological Dynamics</i> , 2010, 4, 478-489.	0.8	170
56	The Shifting Demographic Landscape of Pandemic Influenza. <i>PLoS ONE</i> , 2010, 5, e9360.	1.1	76
57	Exploring biological network structure with clustered random networks. <i>BMC Bioinformatics</i> , 2009, 10, 405.	1.2	77
58	The Shifting Demographic Landscape of Influenza. <i>PLOS Currents</i> , 2009, 1, RRN1047.	1.4	6
59	When individual behaviour matters: homogeneous and network models in epidemiology. <i>Journal of the Royal Society Interface</i> , 2007, 4, 879-891.	1.5	557
60	A Comparative Analysis of Influenza Vaccination Programs. <i>PLoS Medicine</i> , 2006, 3, e387.	3.9	122
61	Network frailty and the geometry of herd immunity. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 2743-2748.	1.2	105