Robin N Thompson

List of Publications by Citations

70 papers	1,452 citations	20 h-index	36 g-index
83 ext. papers	2,318 ext. citations	7.3 avg, IF	6.3 L-index

#	Paper	IF	Citations
70	Spread of yellow fever virus outbreak in Angola and the Democratic Republic of the Congo 2015-16: a modelling study. *Lancet Infectious Diseases, The*, **2017**, 17, 330-338	25.5	140
69	Practical considerations for measuring the effective reproductive number, Rt. *PLoS Computational Biology*, **2020**, 16, e1008409	5	140
68	Novel Coronavirus Outbreak in Wuhan, China, 2020: Intense Surveillance Is Vital for Preventing Sustained Transmission in New Locations. *Journal of Clinical Medicine*, **2020**, 9,	5.1	114
67	Pandemic potential of 2019-nCoV. *Lancet Infectious Diseases, The*, **2020**, 20, 280	25.5	105
66	Estimating the time-varying reproduction number of SARS-CoV-2 using national and subnational case counts. *Wellcome Open Research*,5, 112	4.8	98
65	Key questions for modelling COVID-19 exit strategies. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20201405	4.4	65
64	Estimating the time-varying reproduction number of SARS-CoV-2 using national and subnational case counts. *Wellcome Open Research*,5, 112	4.8	58
63	Epidemiological models are important tools for guiding COVID-19 interventions. *BMC Medicine*, **2020**, 18, 152	11.4	56
62	Detecting Presymptomatic Infection Is Necessary to Forecast Major Epidemics in the Earliest Stages of Infectious Disease Outbreaks. *PLoS Computational Biology*, **2016**, 12, e1004836	5	55
61	Practical considerations for measuring the effective reproductive number, **2020**,		46
60	Estimating COVID-19 outbreak risk through air travel. *Journal of Travel Medicine*, **2020**, 27,	12.9	37
59	Management of invading pathogens should be informed by epidemiology rather than administrative boundaries. *Ecological Modelling*, **2016**, 324, 28-32	3	32
58	Control fast or control smart: When should invading pathogens be controlled?. *PLoS Computational Biology*, **2018**, 14, e1006014	5	30
57	Rigorous surveillance is necessary for high confidence in end-of-outbreak declarations for Ebola and other infectious diseases. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180431	5.8	26
56	A quantitative model used to compare within-host SARS-CoV-2, MERS-CoV, and SARS-CoV dynamics provides insights into the pathogenesis and treatment of SARS-CoV-2. *PLoS Biology*, **2021**, 19, e3001128	9.7	25
55	SARS-CoV-2 incidence and vaccine escape. *Lancet Infectious Diseases, The*, **2021**, 21, 913-914	25.5	25
54	Increased frequency of travel in the presence of cross-immunity may act to decrease the chance of a global pandemic. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20180274	5.8	24

53	Detection, forecasting and control of infectious disease epidemics: modelling outbreaks in humans, animals and plants. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20190038	5.8	23
52	Vaccination can drive an increase in frequencies of antibiotic resistance among nonvaccine serotypes of. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 3102-3107	11.5	22
51	Government responses and COVID-19 deaths: Global evidence across multiple pandemic waves. *PLoS ONE*, **2021**, 16, e0253116	3.7	21
50	High infectiousness immediately before COVID-19 symptom onset highlights the importance of continued contact tracing. *ELife*, **2021**, 10,	8.9	19
49	Structure-Guided Identification of a Nonhuman Morbillivirus with Zoonotic Potential. *Journal of Virology*, **2018**, 92,	6.6	17
48	An exact method for quantifying the reliability of end-of-epidemic declarations in real time. *PLoS Computational Biology*, **2020**, 16, e1008478	5	16
47	Generation time of the alpha and delta SARS-CoV-2 variants: an epidemiological analysis.. *Lancet Infectious Diseases, The*, **2022**,	25.5	16
46	Sustained transmission of Ebola in new locations: more likely than previously thought. *Lancet Infectious Diseases, The*, **2019**, 19, 1058-1059	25.5	15
45	Modelling SARS-CoV-2 Dynamics: Implications for Therapy		15
44	Effect of Confusing Symptoms and Infectiousness on Forecasting and Control of Ebola Outbreaks. *Clinical Infectious Diseases*, **2018**, 67, 1472-1474	11.6	14
43	Will an outbreak exceed available resources for control? Estimating the risk from invading pathogens using practical definitions of a severe epidemic. *Journal of the Royal Society Interface*, **2020**, 17, 20200690	4.1	13
42	Vaccine escape in a heterogeneous population: insights for SARS-CoV-2 from a simple model. *Royal Society Open Science*, **2021**, 8, 210530	3.3	13
41	Time from Symptom Onset to Hospitalisation of Coronavirus Disease 2019 (COVID-19) Cases: Implications for the Proportion of Transmissions from Infectors with Few Symptoms. *Journal of Clinical Medicine*, **2020**, 9,	5.1	11
40	A theoretical framework for transitioning from patient-level to population-scale epidemiological dynamics: influenza A as a case study. *Journal of the Royal Society Interface*, **2020**, 17, 20200230	4.1	11
39	Identifying genes associated with invasive disease in S. pneumoniae by applying a machine learning approach to whole genome sequence typing data. *Scientific Reports*, **2019**, 9, 4049	4.9	10
38	The effect of the definition of ꝑandemicTon quantitative assessments of infectious disease outbreak risk. *Scientific Reports*, **2021**, 11, 2547	4.9	10
37	Epidemiological Identification of A Novel Pathogen in Real Time: Analysis of the Atypical Pneumonia Outbreak in Wuhan, China, 2019-2020. *Journal of Clinical Medicine*, **2020**, 9,	5.1	9
36	Selection on non-antigenic gene segments of seasonal influenza A virus and its impact on adaptive evolution. *Virus Evolution*, **2017**, 3, vex034	3.7	8

35	Generation time of the Alpha and Delta SARS-CoV-2 variants		8
34	Vaccine escape in a heterogeneous population: insights for SARS-CoV-2 from a simple model		8
33	Detection of significant antiviral drug effects on COVID-19 with reasonable sample sizes in randomized controlled trials: A modeling study. *PLoS Medicine*, **2021**, 18, e1003660	11.6	8
32	An analysis of school absences in England during the COVID-19 pandemic. *BMC Medicine*, **2021**, 19, 137	11.4	7
31	Link between the numbers of particles and variants founding new HIV-1 infections depends on the timing of transmission. *Virus Evolution*, **2019**, 5, vey038	3.7	6
30	A hospital-related outbreak of SARS-CoV-2 associated with variant Epsilon (B.1.429) in Taiwan: transmission potential and outbreak containment under intensified contact tracing, January-February 2021. *International Journal of Infectious Diseases*, **2021**, 110, 15-20	10.5	6
29	Inference of the SARS-CoV-2 generation time using UK household data.. *ELife*, **2022**, 11,	8.9	5
28	Are epidemic growth rates more informative than reproduction numbers?		5
27	Interventions targeting non-symptomatic cases can be important to prevent local outbreaks: SARS-CoV-2 as a case study. *Journal of the Royal Society Interface*, **2021**, 18, 20201014	4.1	5
26	Movement and conformity interact to establish local behavioural traditions in animal populations. *PLoS Computational Biology*, **2018**, 14, e1006647	5	5
25	Evolutionary consequences of feedbacks between within-host competition and disease control. *Evolution, Medicine and Public Health*, **2020**, 2020, 30-34	3	4
24	Epidemiological identification of a novel infectious disease in real time: Analysis of the atypical pneumonia outbreak in Wuhan, China, 2019-20		4
23	Statistical Estimation of the Reproductive Number From Case Notification Data. *American Journal of Epidemiology*, **2021**, 190, 611-620	3.8	4
22	Assessing the impact of secondary school reopening strategies on within-school COVID-19 transmission and absences: a modelling study		4
21	Preface to theme issue TModelling infectious disease outbreaks in humans, animals and plants: epidemic forecasting and controlT *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2019**, 374, 20190375	5.8	3
20	Challenges for modelling interventions for future pandemics.. *Epidemics*, **2022**, 38, 100546	5.1	3
19	Waning, Boosting and a Path to Endemicity for SARS-CoV-2		3
18	Challenges in modeling the emergence of novel pathogens. *Epidemics*, **2021**, 37, 100516	5.1	3

List of Publications

17	The risk of SARS-CoV-2 outbreaks in low prevalence settings following the removal of travel restrictions. *Communications Medicine*, **2021**, 1,		3
16	Commentary on the use of the reproduction number during the COVID-19 pandemic. *Statistical Methods in Medical Research*, **2021**, 9622802211037079	2.3	3
15	Quantifying pupil-to-pupil SARS-CoV-2 transmission and the impact of lateral flow testing in English secondary schools.. *Nature Communications*, **2022**, 13, 1106	17.4	3
14	Will an outbreak exceed available resources for control? Estimating the risk from invading pathogens using practical definitions of a severe epidemic		2
13	The pedagogical power of context: extending the Epidemiology of Eyam. *Physics Education*, **2020**, 55, 015021	0.8	2
12	Quantifying within-school SARS-CoV-2 transmission and the impact of lateral flow testing in secondary schools in England		2
11	An analysis of school absences in England during the Covid-19 pandemic		2
10	Interventions targeting nonsymptomatic cases can be important to prevent local outbreaks: SARS-CoV-2 as a case-study		1
9	Optimal health and economic impact of non-pharmaceutical intervention measures prior and post vaccination in England: a mathematical modelling study		1
8	Non-pharmaceutical interventions and the emergence of pathogen variants		1
7	Accounting for cross-immunity can improve forecast accuracy during influenza epidemics. *Epidemics* , **2021**, 34, 100432	5.1	1
6	Model Integration in Computational Biology: The Role of Reproducibility, Credibility and Utility **2022**, 2,		1
5	Estimating local outbreak risks and the effects of non-pharmaceutical interventions in age-structured populations: SARS-CoV-2 as a case study.. *Journal of Theoretical Biology*, **2021**, 535, 110983	2.3	0
4	Assessing the impact of lateral flow testing strategies on within-school SARS-CoV-2 transmission and absences: A modelling study. *PLoS Computational Biology*, **2022**, 18, e1010158	5	0
3	Evaluating strategies for spatial allocation of vaccines based on risk and centrality.. *Journal of the Royal Society Interface*, **2022**, 19, 20210709	4.1	
2	Real-Time Prediction of the End of an Epidemic Wave: COVID-19 in China as a Case-Study. *Fields Institute Communications*, **2022**, 173-195	0.4	
1	When Do Epidemics End? Scientific Insights from Mathematical Modelling Studies. *Centaurus*, **2022**, 64, 31-60	1.1	