

# Lauren Ancel Meyers

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

11,171  
citations

41258

49  
h-index

37111

96  
g-index

165  
all docs

165  
docs citations

165  
times ranked

13199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing Influenza Virus Transmission: The Potential Value of Antiviral Treatment. <i>Clinical Infectious Diseases</i> , 2022, 74, 532-540.	2.9	25
2	Real-time pandemic surveillance using hospital admissions and mobility data. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	31
3	Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study. <i>The Lancet Regional Health Americas</i> , 2022, 8, 100182.	1.5	10
4	Impact of the Timing of Stay-at-Home Orders and Mobility Reductions on First-Wave COVID-19 Deaths in US Counties. <i>American Journal of Epidemiology</i> , 2022, 191, 900-907.	1.6	5
5	Projecting the Combined Health Care Burden of Seasonal Influenza and COVID-19 in the 2020â€“2021 Season. <i>MDM Policy and Practice</i> , 2022, 7, 238146832210846.	0.5	4
6	Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113561119.	3.3	136
7	Expanding Access to COVID-19 Tests through US Postal Service Facilities. <i>Medical Decision Making</i> , 2021, 41, 3-8.	1.2	1
8	Early COVID-19 Pandemic Modeling: Three Compartmental Model Case Studies From Texas, USA. <i>Computing in Science and Engineering</i> , 2021, 23, 25-34.	1.2	0
9	Selecting pharmacies for COVID-19 testing to ensure access. <i>Health Care Management Science</i> , 2021, 24, 330-338.	1.5	26
10	The Impact of Vaccination on Coronavirus Disease 2019 (COVID-19) Outbreaks in the United States. <i>Clinical Infectious Diseases</i> , 2021, 73, 2257-2264.	2.9	376
11	Infectious diseases and social distancing in nature. <i>Science</i> , 2021, 371, .	6.0	108
12	Comparative cost-effectiveness of SARS-CoV-2 testing strategies in the USA: a modelling study. <i>Lancet Public Health</i> , The, 2021, 6, e184-e191.	4.7	106
13	The Experience of 2 Independent Schools With <scp>Inâ€“Person</scp> Learning During the <scp>COVID</scp>â€“19 Pandemic. <i>Journal of School Health</i> , 2021, 91, 347-355.	0.8	28
14	Projecting COVID-19 isolation bed requirements for people experiencing homelessness. <i>PLoS ONE</i> , 2021, 16, e0251153.	1.1	5
15	Design of COVID-19 staged alert systems to ensure healthcare capacity with minimal closures. <i>Nature Communications</i> , 2021, 12, 3767.	5.8	27
16	Effects of COVID-19 Vaccination Timing and Risk Prioritization on Mortality Rates, United States. <i>Emerging Infectious Diseases</i> , 2021, 27, 1976-1979.	2.0	15
17	Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. <i>Molecular Ecology</i> , 2021, 30, 6759-6775.	2.0	16
18	Impact of Social Distancing Measures on Coronavirus Disease Healthcare Demand, Central Texas, USA. <i>Emerging Infectious Diseases</i> , 2020, 26, 2361-2369.	2.0	93

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19	Timing social distancing to avert unmanageable COVID-19 hospital surges. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19873-19878.	3.3	56
20	Using the COVID-19 to influenza ratio to estimate early pandemic spread in Wuhan, China and Seattle, US. <i>EClinicalMedicine</i> , 2020, 26, 100479.	3.2	19
21	Effects of Proactive Social Distancing on COVID-19 Outbreaks in 58 Cities, China. <i>Emerging Infectious Diseases</i> , 2020, 26, 2267-2269.	2.0	55
22	Estimated Association of Construction Work With Risks of COVID-19 Infection and Hospitalization in Texas. <i>JAMA Network Open</i> , 2020, 3, e2026373.	2.8	48
23	Modeling mitigation of influenza epidemics by baloxavir. <i>Nature Communications</i> , 2020, 11, 2750.	5.8	36
24	Conscientious vaccination exemptions in kindergarten to eighth-grade children across Texas schools from 2012 to 2018: A regression analysis. <i>PLoS Medicine</i> , 2020, 17, e1003049.	3.9	13
25	Socioeconomic bias in influenza surveillance. <i>PLoS Computational Biology</i> , 2020, 16, e1007941.	1.5	18
26	Early prediction of antigenic transitions for influenza A/H3N2. <i>PLoS Computational Biology</i> , 2020, 16, e1007683.	1.5	16
27	Impact of international travel and border control measures on the global spread of the novel 2019 coronavirus outbreak. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 7504-7509.	3.3	429
28	Projecting hospital utilization during the COVID-19 outbreaks in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9122-9126.	3.3	441
29	Risk for Transportation of Coronavirus Disease from Wuhan to Other Cities in China. <i>Emerging Infectious Diseases</i> , 2020, 26, 1049-1052.	2.0	323
30	Serial Interval of COVID-19 among Publicly Reported Confirmed Cases. <i>Emerging Infectious Diseases</i> , 2020, 26, 1341-1343.	2.0	546
31	Terrestriality and bacterial transfer: a comparative study of gut microbiomes in sympatric Malagasy mammals. <i>ISME Journal</i> , 2019, 13, 50-63.	4.4	59
32	Downgrading disease transmission risk estimates using terminal importations. <i>PLoS Neglected Tropical Diseases</i> , 2019, 13, e0007395.	1.3	6
33	Conflict and accord of optimal treatment strategies for HIV infection within and between hosts. <i>Mathematical Biosciences</i> , 2019, 309, 107-117.	0.9	17
34	Uncertainty analysis of species distribution models. <i>PLoS ONE</i> , 2019, 14, e0214190.	1.1	11
35	Ebola vaccination in the Democratic Republic of the Congo. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 10178-10183.	3.3	38
36	Future epidemiological and economic impacts of universal influenza vaccines. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20786-20792.	3.3	26

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37	Local risk perception enhances epidemic control. PLoS ONE, 2019, 14, e0225576.	1.1	28
38	Optimal multi-source forecasting of seasonal influenza. PLoS Computational Biology, 2018, 14, e1006236.	1.5	17
39	The cost-effectiveness of oral HIV pre-exposure prophylaxis and early antiretroviral therapy in the presence of drug resistance among men who have sex with men in San Francisco. BMC Medicine, 2018, 16, 58.	2.3	25
40	Couple serostatus patterns in sub-Saharan Africa illuminate the relative roles of transmission rates and sexual network characteristics in HIV epidemiology. Scientific Reports, 2018, 8, 6675.	1.6	0
41	Assessing real-time Zika risk in the United States. BMC Infectious Diseases, 2017, 17, 284.	1.3	41
42	Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170525.	1.2	10
43	Estimation of single-year-of-age counts of live births, fetal losses, abortions, and pregnant women for counties of Texas. BMC Research Notes, 2017, 10, 178.	0.6	3
44	Stockpiling Ventilators for Influenza Pandemics. Emerging Infectious Diseases, 2017, 23, 914-921.	2.0	53
45	Design Strategies for Efficient Arbovirus Surveillance. Emerging Infectious Diseases, 2017, 23, 642-644.	2.0	14
46	Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20172274.	1.2	82
47	Seasonality in risk of pandemic influenza emergence. PLoS Computational Biology, 2017, 13, e1005749.	1.5	37
48	Equalizing access to pandemic influenza vaccines through optimal allocation to public health distribution points. PLoS ONE, 2017, 12, e0182720.	1.1	21
49	Respiratory virus transmission dynamics determine timing of asthma exacerbation peaks: Evidence from a population-level model. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2194-2199.	3.3	46
50	Disease Surveillance on Complex Social Networks. PLoS Computational Biology, 2016, 12, e1004928.	1.5	46
51	CDC Grand Rounds: Modeling and Public Health Decision-Making. Morbidity and Mortality Weekly Report, 2016, 65, 1374-1377.	9.0	17
52	Data Blindspots: High-Tech Disease Surveillance Misses the Poor. Online Journal of Public Health Informatics, 2016, 8, .	0.4	5
53	Evaluating Ebola vaccine trials: insights from simulation. Lancet Infectious Diseases, The, 2015, 15, 1134.	4.6	5
54	Enhancing disease surveillance with novel data streams: challenges and opportunities. EPJ Data Science, 2015, 4, .	1.5	119

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55	Evaluating Large-scale Blood Transfusion Therapy for the Current Ebola Epidemic in Liberia. <i>Journal of Infectious Diseases</i> , 2015, 211, 1262-1267.	1.9	19
56	Harnessing Case Isolation and Ring Vaccination to Control Ebola. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003794.	1.3	31
57	Statistical power and validity of Ebola vaccine trials in Sierra Leone: a simulation study of trial design and analysis. <i>Lancet Infectious Diseases</i> , The, 2015, 15, 703-710.	4.6	64
58	Location based surveillance for early detection of contagious outbreaks. , 2015, , .		2
59	Efficacy and Optimization of Palivizumab Injection Regimens Against Respiratory Syncytial Virus Infection. <i>JAMA Pediatrics</i> , 2015, 169, 341.	3.3	39
60	Reassessment of HIV-1 Acute Phase Infectivity: Accounting for Heterogeneity and Study Design with Simulated Cohorts. <i>PLoS Medicine</i> , 2015, 12, e1001801.	3.9	75
61	Optimizing Distribution of Pandemic Influenza Antiviral Drugs. <i>Emerging Infectious Diseases</i> , 2015, 21, 251-258.	2.0	14
62	Epidemiological and Viral Genomic Sequence Analysis of the 2014 Ebola Outbreak Reveals Clustered Transmission. <i>Clinical Infectious Diseases</i> , 2015, 60, 1079-1082.	2.9	59
63	Epidemic Wave Dynamics Attributable to Urban Community Structure: A Theoretical Characterization of Disease Transmission in a Large Network. <i>Journal of Medical Internet Research</i> , 2015, 17, e169.	2.1	22
64	Mathematical models: A key tool for outbreak response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 18095-18096.	3.3	78
65	Ebola control: effect of asymptomatic infection and acquired immunity. <i>Lancet</i> , The, 2014, 384, 1499-1500.	6.3	77
66	Polyploid Formation Shapes Flowering Plant Diversity. <i>American Naturalist</i> , 2014, 184, 456-465.	1.0	49
67	Network-based vaccination improves prospects for disease control in wild chimpanzees. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140349.	1.5	65
68	Probabilistic uncertainty analysis of epidemiological modeling to guide public health intervention policy. <i>Epidemics</i> , 2014, 6, 37-45.	1.5	29
69	Cost-Effectiveness of Canine Vaccination to Prevent Human Rabies in Rural Tanzania. <i>Annals of Internal Medicine</i> , 2014, 160, 91-100.	2.0	71
70	Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. <i>BMJ</i> , The, 2014, 349, g7518-g7518.	3.0	11
71	Dengue dynamics and vaccine cost-effectiveness in Brazil. <i>Vaccine</i> , 2013, 31, 3957-3961.	1.7	40
72	Cost-effectiveness of a community-based intervention for reducing the transmission of <i>Schistosoma haematobium</i> and HIV in Africa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7952-7957.	3.3	35

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73	Optimal targeting of seasonal influenza vaccination toward younger ages is robust to parameter uncertainty. <i>Vaccine</i> , 2013, 31, 3079-3089.	1.7	13
74	Potential Cost-Effectiveness of Schistosomiasis Treatment for Reducing HIV Transmission in Africa – The Case of Zimbabwean Women. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2346.	1.3	33
75	Epidemiological effects of group size variation in social species. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130206.	1.5	22
76	The Impact of Imitation on Vaccination Behavior in Social Contact Networks. <i>PLoS Computational Biology</i> , 2012, 8, e1002469.	1.5	102
77	Potential for Rabies Control through Dog Vaccination in Wildlife-Abundant Communities of Tanzania. <i>PLoS Neglected Tropical Diseases</i> , 2012, 6, e1796.	1.3	46
78	Optimizing Provider Recruitment for Influenza Surveillance Networks. <i>PLoS Computational Biology</i> , 2012, 8, e1002472.	1.5	43
79	Geographic prioritization of distributing pandemic influenza vaccines. <i>Health Care Management Science</i> , 2012, 15, 175-187.	1.5	42
80	Who got vaccinated against H1N1 pandemic influenza? – A longitudinal study in four US cities. <i>Psychology and Health</i> , 2012, 27, 101-115.	1.2	16
81	Early Real-Time Estimation of the Basic Reproduction Number of Emerging Infectious Diseases. <i>Physical Review X</i> , 2012, 2, .	2.8	9
82	The impact of past epidemics on future disease dynamics. <i>Journal of Theoretical Biology</i> , 2012, 309, 176-184.	0.8	33
83	EpiFire: An open source C++ library and application for contact network epidemiology. <i>BMC Bioinformatics</i> , 2012, 13, 76.	1.2	31
84	Simulating school closure policies for cost effective pandemic decision making. <i>BMC Public Health</i> , 2012, 12, 449.	1.2	38
85	Transmission of Infectious Diseases En Route to Habitat Hotspots. <i>PLoS ONE</i> , 2012, 7, e31290.	1.1	15
86	Controlling Antimicrobial Resistance through Targeted, Vaccine-Induced Replacement of Strains. <i>PLoS ONE</i> , 2012, 7, e50688.	1.1	20
87	Optimizing Tactics for Use of the U.S. Antiviral Strategic National Stockpile for Pandemic Influenza. <i>PLoS ONE</i> , 2011, 6, e16094.	1.1	38
88	Vaccination against 2009 pandemic H1N1 in a population dynamical model of Vancouver, Canada: timing is everything. <i>BMC Public Health</i> , 2011, 11, 932.	1.2	36
89	Impact of Imitation Processes on the Effectiveness of Ring Vaccination. <i>Bulletin of Mathematical Biology</i> , 2011, 73, 2748-2772.	0.9	9
90	Optimal H1N1 vaccination strategies based on self-interest versus group interest. <i>BMC Public Health</i> , 2011, 11, S4.	1.2	37

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91	Disease transmission in territorial populations: the small-world network of Serengeti lions. <i>Journal of the Royal Society Interface</i> , 2011, 8, 776-786.	1.5	121
92	Network Perspectives on Infectious Disease Dynamics. <i>Interdisciplinary Perspectives on Infectious Diseases</i> , 2011, 2011, 1-2.	0.6	4
93	Effects of Heterogeneous and Clustered Contact Patterns on Infectious Disease Dynamics. <i>PLoS Computational Biology</i> , 2011, 7, e1002042.	1.5	139
94	Erratic Flu Vaccination Emerges from Short-Sighted Behavior in Contact Networks. <i>PLoS Computational Biology</i> , 2011, 7, e1001062.	1.5	62
95	The dynamics of risk perceptions and precautionary behavior in response to 2009 (H1N1) pandemic influenza. <i>BMC Infectious Diseases</i> , 2010, 10, 296.	1.3	219
96	The dynamic nature of contact networks in infectious disease epidemiology. <i>Journal of Biological Dynamics</i> , 2010, 4, 478-489.	0.8	170
97	Mathematical Approaches to Infectious Disease Prediction and Control. , 2010, , 1-25.		27
98	Epidemiological bridging by injection drug use drives an early HIV epidemic. <i>Epidemics</i> , 2010, 2, 155-164.	1.5	26
99	The Shifting Demographic Landscape of Pandemic Influenza. <i>PLoS ONE</i> , 2010, 5, e9360.	1.1	76
100	Distinguishing epidemic waves from disease spillover in a wildlife population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 1777-1785.	1.2	80
101	Exploring biological network structure with clustered random networks. <i>BMC Bioinformatics</i> , 2009, 10, 405.	1.2	77
102	Initial human transmission dynamics of the pandemic (H1N1) 2009 virus in North America. <i>Influenza and Other Respiratory Viruses</i> , 2009, 3, 215-222.	1.5	123
103	Epidemic thresholds in dynamic contact networks. <i>Journal of the Royal Society Interface</i> , 2009, 6, 233-241.	1.5	168
104	The Shifting Demographic Landscape of Influenza. <i>PLOS Currents</i> , 2009, 1, RRN1047.	1.4	6
105	Optimizing Tactics for use of the U.S. Antiviral Strategic National Stockpile for Pandemic (H1N1) Influenza, 2009. <i>PLOS Currents</i> , 2009, 1, RRN1127.	1.4	12
106	Optimizing allocation for a delayed influenza vaccination campaign. <i>PLOS Currents</i> , 2009, 1, RRN1134.	1.4	38
107	The Ascent of the Abundant: How Mutational Networks Constrain Evolution. <i>PLoS Computational Biology</i> , 2008, 4, e1000110.	1.5	91
108	How Mutational Networks Shape Evolution: Lessons from RNA Models. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2007, 38, 203-230.	3.8	62

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109	Susceptible–infected–recovered epidemics in dynamic contact networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2925-2934.	1.2	220
110	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
111	Contact network epidemiology: Bond percolation applied to infectious disease prediction and control. <i>Bulletin of the American Mathematical Society</i> , 2006, 44, 63-87.	0.8	259
112	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1198-1206.	1.1	153
113	Predicting epidemics on directed contact networks. <i>Journal of Theoretical Biology</i> , 2006, 240, 400-418.	0.8	242
114	From Bad to Good: Fitness Reversals and the Ascent of Deleterious Mutations. <i>PLoS Computational Biology</i> , 2006, 2, e141.	1.5	31
115	A Comparative Analysis of Influenza Vaccination Programs. <i>PLoS Medicine</i> , 2006, 3, e387.	3.9	122
116	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
117	ON THE ABUNDANCE OF POLYPLOIDS IN FLOWERING PLANTS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1198.	1.1	4
118	On the abundance of polyploids in flowering plants. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1198-206.	1.1	50
119	Network theory and SARS: predicting outbreak diversity. <i>Journal of Theoretical Biology</i> , 2005, 232, 71-81.	0.8	592
120	Modeling Control Strategies of Respiratory Pathogens. <i>Emerging Infectious Diseases</i> , 2005, 11, 1249-1256.	2.0	81
121	Evolution of Genetic Potential. <i>PLoS Computational Biology</i> , 2005, 1, e32.	1.5	64
122	Quasispecies Made Simple. <i>PLoS Computational Biology</i> , 2005, 1, e61.	1.5	143
123	Distributions of Beneficial Fitness Effects in RNA. <i>Genetics</i> , 2005, 170, 1449-1457.	1.2	47
124	Constraints on Variation from Genotype through Phenotype to Fitness. , 2005, , 87-111.		6
125	The Robustness of Naturally and Artificially Selected Nucleic Acid Secondary Structures. <i>Journal of Molecular Evolution</i> , 2004, 58, 681-691.	0.8	53
126	PERSPECTIVE: EVOLUTION AND DETECTION OF GENETIC ROBUSTNESS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1959-1972.	1.1	504



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127	Epidemiology, hypermutation, within-host evolution and the virulence of <i>Neisseria meningitidis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 1667-1677.	1.2	57
128	PERSPECTIVE:EVOLUTION AND DETECTION OF GENETIC ROBUSTNESS. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 1959.	1.1	467
129	Applying Network Theory to Epidemics: Control Measures for <i>Mycoplasma pneumoniae</i> Outbreaks. <i>Emerging Infectious Diseases</i> , 2003, 9, 204-210.	2.0	177
130	Fighting change with change: adaptive variation in an uncertain world. <i>Trends in Ecology and Evolution</i> , 2002, 17, 551-557.	4.2	311
131	Optimizing COVID-19 surveillance using historical electronic health records of influenza infections. , 0, , .		2