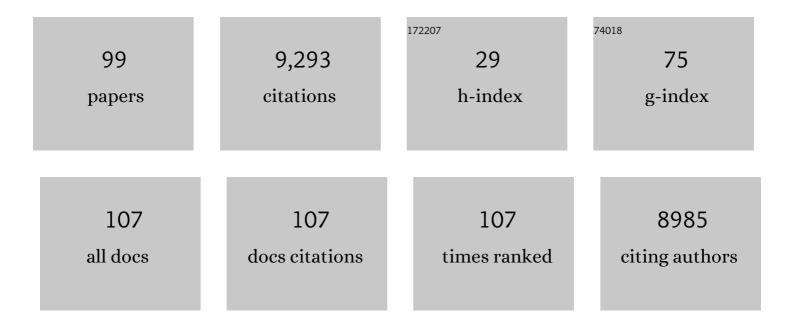
## Stephen Eubank

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5830497/publications.pdf Version: 2024-02-01



STEDHEN FURANK

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Testing for nonlinearity in time series: the method of surrogate data. Physica D: Nonlinear<br>Phenomena, 1992, 58, 77-94.  | 1.3  | 3,281     |
| 2  | Modelling disease outbreaks in realistic urban social networks. Nature, 2004, 429, 180-184.   | 13.7 | 1,685     |
| 3  | Modeling targeted layered containment of an influenza pandemic in the United States. Proceedings of the United States of America, 2008, 105, 4639-4644.                                     | 3.3  | 570       |
| 4  | State space reconstruction in the presence of noise. Physica D: Nonlinear Phenomena, 1991, 51, 52-98.   | 1.3  | 448       |
| 5  | Commentary on Ferguson, et al., "Impact of Non-pharmaceutical Interventions (NPIs) to Reduce<br>COVID-19 Mortality and Healthcare Demandâ€: Bulletin of Mathematical Biology, 2020, 82, 52. | 0.9  | 264       |
| 6  | What Factors Might Have Led to the Emergence of Ebola in West Africa?. PLoS Neglected Tropical Diseases, 2015, 9, e0003652.   | 1.3  | 206       |
| 7  | An analytic approach to practical state space reconstruction. Physica D: Nonlinear Phenomena, 1992, 57, 1-30.   | 1.3  | 166       |
| 8  | Mixing patterns between age groups in social networks. Social Networks, 2007, 29, 539-554.  | 1.3  | 161       |
| 9  | Scaling laws for the movement of people between locations in a large city. Physical Review E, 2003, 68, 066102.   | 0.8  | 151       |
| 10 | Results from the centers for disease control and prevention's predict the 2013–2014 Influenza Season<br>Challenge. BMC Infectious Diseases, 2016, 16, 357.                                  | 1.3  | 144       |
| 11 | Modeling the Impact of Interventions on an Epidemic of Ebola in Sierra Leone and Liberia. PLOS<br>Currents, 2014, 6, .  | 1.4  | 143       |
| 12 | EpiSimdemics: An efficient algorithm for simulating the spread of infectious disease over large realistic social networks. , 2008, , .  |      | 130       |
| 13 | If Smallpox Strikes Portland Scientific American, 2005, 292, 54-61.   | 1.0  | 127       |
| 14 | Enhancing disease surveillance with novel data streams: challenges and opportunities. EPJ Data<br>Science, 2015, 4, .   | 1.5  | 119       |
| 15 | Systems Modeling of Molecular Mechanisms Controlling Cytokine-driven CD4+ T Cell Differentiation and Phenotype Plasticity. PLoS Computational Biology, 2013, 9, e1003027.                   | 1.5  | 111       |
| 16 | Social Network Analysis of Patient Sharing Among Hospitals in Orange County, California. American<br>Journal of Public Health, 2011, 101, 707-713.  | 1.5  | 102       |
| 17 | A Research Agenda for Malaria Eradication: Modeling. PLoS Medicine, 2011, 8, e1000403.  | 3.9  | 89        |
| 18 | Don't bleach chaotic data. Chaos, 1993, 3, 771-782.   | 1.0  | 85        |

STEPHEN EUBANK

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Mathematical models: A key tool for outbreak response. Proceedings of the National Academy of<br>Sciences of the United States of America, 2014, 111, 18095-18096.  | 3.3 | 78        |
| 20 | Modeling of Wildlife-Associated Zoonoses: Applications and Caveats. Vector-Borne and Zoonotic Diseases, 2012, 12, 1005-1018.  | 0.6 | 73        |
| 21 | Model of colonic inflammation: Immune modulatory mechanisms in inflammatory bowel disease.<br>Journal of Theoretical Biology, 2010, 264, 1225-1239.   | 0.8 | 68        |
| 22 | Quantifying Interhospital Patient Sharing as a Mechanism for Infectious Disease Spread. Infection<br>Control and Hospital Epidemiology, 2010, 31, 1160-1169.  | 1.0 | 65        |
| 23 | Modeling the Spread of Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) Outbreaks<br>throughout the Hospitals in Orange County, California. Infection Control and Hospital Epidemiology,<br>2011, 32, 562-572. | 1.0 | 62        |
| 24 | Predictive Computational Modeling of the Mucosal Immune Responses during Helicobacter pylori<br>Infection. PLoS ONE, 2013, 8, e73365.   | 1.1 | 53        |
| 25 | Modeling the Impact of Interventions on an Epidemic of Ebola in Sierra Leone and Liberia. PLOS<br>Currents, 2014, 6, .  | 1.4 | 45        |
| 26 | Distribution of vaccine/antivirals and the â€~least spread line' in a stratified population. Journal of the Royal Society Interface, 2010, 7, 755-764.  | 1.5 | 44        |
| 27 | Ebola: Mobility data. Science, 2014, 346, 433-433.  | 6.0 | 39        |
| 28 | The Ecology of Pathogen Spillover and Disease Emergence at the Human-Wildlife-Environment<br>Interface. Advances in Environmental Microbiology, 2018, , 267-298.  | 0.1 | 37        |
| 29 | Scalable, efficient epidemiological simulation. , 2002, , .   |     | 36        |
| 30 | Disparities in spread and control of influenza in slums of Delhi: findings from an agent-based modelling study. BMJ Open, 2018, 8, e017353.   | 0.8 | 36        |
| 31 | Epidemiological and economic impact of COVID-19 in the US. Scientific Reports, 2021, 11, 20451.   | 1.6 | 35        |
| 32 | ENteric Immunity SImulator: A Tool for In Silico Study of Gastroenteric Infections. IEEE Transactions on Nanobioscience, 2012, 11, 273-288.   | 2.2 | 34        |
| 33 | Medical costs of keeping the US economy open during COVID-19. Scientific Reports, 2020, 10, 18422.  | 1.6 | 32        |
| 34 | Detail in network models of epidemiology: are we there yet?. Journal of Biological Dynamics, 2010, 4, 446-455.  | 0.8 | 30        |
| 35 | Modeling the regional spread and control of vancomycin-resistant enterococci. American Journal of Infection Control, 2013, 41, 668-673.   | 1.1 | 29        |
| 36 | Modeling and Simulation of Large Biological, Information and Socio-Technical Systems: An<br>Interaction Based Approach. , 2006, , 353-392.  |     | 28        |

STEPHEN EUBANK

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Sensitivity Analysis of an ENteric Immunity SImulator (ENISI)-Based Model of Immune Responses to<br>Helicobacter pylori Infection. PLoS ONE, 2015, 10, e0136139.                 | 1.1 | 24        |
| 38 | Comparing Effectiveness of Top-Down and Bottom-Up Strategies in Containing Influenza. PLoS ONE, 2011, 6, e25149.   | 1.1 | 24        |
| 39 | Sensitivity of Household Transmission to Household Contact Structure and Size. PLoS ONE, 2011, 6, e22461.  | 1.1 | 23        |
| 40 | Network reliability: The effect of local network structure on diffusive processes. Physical Review E, 2013, 88, 052810.  | 0.8 | 22        |
| 41 | Multi-scale immunoepidemiological modeling of within-host and between-host HIV dynamics: systematic review of mathematical models. PeerJ, 2017, 5, e3877.                        | 0.9 | 21        |
| 42 | Modeling the effect of transient populations on epidemics in Washington DC. Scientific Reports, 2013, 3, 3152.   | 1.6 | 19        |
| 43 | Epidemiological and economic impact of pandemic influenza in Chicago: Priorities for vaccine interventions. PLoS Computational Biology, 2017, 13, e1005521.                      | 1.5 | 19        |
| 44 | Planning and response in the aftermath of a large crisis: An agent-based informatics framework. , 2013, 2013, 1515-1526.   |     | 16        |
| 45 | The contagious nature of imprisonment: an agent-based model to explain racial disparities in incarceration rates. Journal of the Royal Society Interface, 2014, 11, 20140409.    | 1.5 | 16        |
| 46 | A Simulation Environment for the Dynamic Evaluation of Disaster Preparedness Policies and<br>Interventions. Journal of Public Health Management and Practice, 2013, 19, S42-S48. | 0.7 | 15        |
| 47 | ENteric Immunity SImulator: A Tool for in silico Study of Gut Immunopathologies. , 2011, , .   |     | 14        |
| 48 | ENISI Visual, an agent-based simulator for modeling gut immunity. , 2012, , .  |     | 14        |
| 49 | in silico Surveillance: evaluating outbreak detection with simulation models. BMC Medical<br>Informatics and Decision Making, 2013, 13, 12.                                      | 1.5 | 13        |
| 50 | A Two-stage, Fitted Values Approach to Activity Matching. International Journal of Transportation, 2016, 4, 41-56.   | 0.4 | 13        |
| 51 | High-Performance Interaction-Based Simulation of Gut Immunopathologies with ENteric Immunity<br>Simulator (ENISI). , 2012, , .   |     | 12        |
| 52 | What to know before forecasting the flu. PLoS Computational Biology, 2018, 14, e1005964.   | 1.5 | 11        |
| 53 | Epidemiology and Wireless Communication: Tight Analogy or Loose Metaphor?. Lecture Notes in<br>Computer Science, 2008, , 91-104.   | 1.0 | 11        |
| 54 | From network reliability to the Ising model: A parallel scheme for estimating the joint density of states. Physical Review E, 2016, 94, 042125.                                  | 0.8 | 10        |

Stephen Eubank

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Estimating Human Cases of Avian Influenza A(H7N9) from Poultry Exposure. PLOS Currents, 2013, 5, .  | 1.4 | 10        |
| 56 | Modeling commodity flow in the context of invasive species spread: Study of Tuta absoluta in Nepal.<br>Crop Protection, 2020, 135, 104736.  | 1.0 | 9         |
| 57 | Interactive computer simulation and analysis of Newtonian dynamics. American Journal of Physics, 1989, 57, 457-463.   | 0.3 | 8         |
| 58 | Interactions among human behavior, social networks, and societal infrastructures: A Case Study in<br>Computational Epidemiology. , 2009, , 477-507.   |     | 8         |
| 59 | Modeling the Interaction between Emergency Communications and Behavior in the Aftermath of a Disaster. Lecture Notes in Computer Science, 2013, , 476-485.  | 1.0 | 8         |
| 60 | Model-Based Forecasting of Significant Societal Events. IEEE Intelligent Systems, 2015, 30, 86-90.  | 4.0 | 7         |
| 61 | The Effect of Random Edge Removal on Network Degree Sequence. Electronic Journal of<br>Combinatorics, 2012, 19, .   | 0.2 | 7         |
| 62 | Agent-Based Modeling and High Performance Computing. , 2016, , 79-111.  |     | 6         |
| 63 | Determining whether a class of random graphs is consistent with an observed contact network.<br>Journal of Theoretical Biology, 2018, 440, 121-132.   | 0.8 | 5         |
| 64 | Hospitals as Complex Social Systems: Agent-Based Simulations of Hospital-Acquired Infections. Lecture<br>Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications<br>Engineering, 2013, , 165-178. | 0.2 | 5         |
| 65 | Beyond Degree Distributions: Local to Global Structure of Social Contact Graphs. Lecture Notes in<br>Computer Science, 2010, , 1-1.   | 1.0 | 5         |
| 66 | Reinventing Part-Of-Speech Tagging. Journal of Natural Language Processing, 1998, 5, 3-23.  | 0.1 | 5         |
| 67 | Migdal-Kadanoff determination of the Gell-Mann—Low function for mixed action SU(2) lattice gauge theories. Nuclear Physics B, 1987, 285, 363-389.   | 0.9 | 4         |
| 68 | Infectious Disease Modeling and Military Readiness. Emerging Infectious Diseases, 2009, 15, e1-e1.  | 2.0 | 4         |
| 69 | Using the network reliability polynomial to characterize and design networks. Journal of Complex<br>Networks, 2014, 2, 356-372.   | 1.1 | 4         |
| 70 | Towards robust models of food flows and their role in invasive species spread. , 2017, , .  |     | 4         |
| 71 | Impact of Paid Sick Leave Policy: A Social Planner's Perspective. American Journal of Public Health, 2014, 104, e1-e1.  | 1.5 | 3         |
| 72 | CINET 2.0: A CyberInfrastructure for Network Science. , 2014, , .   |     | 3         |

72 CINET 2.0: A CyberInfrastructure for Network Science. , 2014, , .

5

STEPHEN EUBANK

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | Correction for Lofgren et al., Opinion: Mathematical models: A key tool for outbreak response.<br>Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, .                          | 3.3 | 3         |
| 74 | A Scalable Data Management Tool to Support Epidemiological Modeling of Large Urban Regions.<br>Lecture Notes in Computer Science, 2007, , 546-548.   | 1.0 | 3         |
| 75 | Using Network Reliability to Understand International Food Trade Dynamics. Studies in Computational<br>Intelligence, 2019, , 524-535.  | 0.7 | 3         |
| 76 | Information Integration to Support Model-Based Policy Informatics. Innovation Journal, 2011, 16, .   | 0.0 | 3         |
| 77 | Analyzing network reliability using structural motifs. Physical Review E, 2015, 91, 042814.  | 0.8 | 2         |
| 78 | Addressing the Race Gap in Incarceration Rates: An Agent Based Model. Corrections, 2017, 2, 71-90.   | 0.5 | 2         |
| 79 | Validating Agent-Based Models of Large Networked Systems. , 2019, , .  |     | 2         |
| 80 | Characterizing Relevant Network Structure with Reliability Polynomials. Understanding Complex Systems, 2014, , 117-143.  | 0.3 | 2         |
| 81 | An Interaction Based Composable Architecture for Building Scalable Models of Large Social,<br>Biological, Information and Technical Systems. CTWatch Quarterly: Cyberinfrastructure Technology<br>Watch, 2008, 4, 46-53. | 0.0 | 2         |
| 82 | The Effect of Random Edge Removal on Network Degree Sequence. Electronic Journal of Combinatorics, 2012, 19, .   | 0.2 | 2         |
| 83 | Transportation Networks: Dynamics and Simulation. AIP Conference Proceedings, 2002, , .  | 0.3 | 1         |
| 84 | Policy informatics for co-evolving socio-technical networks. , 2009, , .   |     | 1         |
| 85 | From biological and social network metaphors to coupled bio-social wireless networks.<br>International Journal of Autonomous and Adaptive Communications Systems, 2011, 4, 122.  | 0.2 | 1         |
| 86 | Determining and Understanding Dynamically Important Differences between Complex Networks Using<br>Reliability-Induced Structural Motifs. , 2013, , .   |     | 1         |
| 87 | State space forecasting and noise reduction. , 1990, , .   |     | 0         |
| 88 | Clustering method incorporating network topology and dynamics. , 2010, , .   |     | 0         |
| 89 | Optimizing epidemic protection for socially essential workers. , 2012, , .   |     | 0         |
| 90 | High performance informatics for pandemic preparedness. , 2012, , .  |     | 0         |

High performance informatics for pandemic preparedness. , 2012, , .

**Stephen Eubank** 

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 91 | A Synthetic Information Approach to Urban-Scale Disaster Modeling. , 2013, , .  |     | 0         |
| 92 | Economic evaluation of influenza vaccine intervention. International Journal of Infectious Diseases, 2016, 45, 159.                   | 1.5 | 0         |
| 93 | Pandemics, Detection and Management. , 2008, , 839-843.   |     | 0         |
| 94 | Modeling Chaotic Systems. , 1997, , 152-175.  |     | 0         |
| 95 | Pandemics, Detection and Management. , 2016, , 1-7.   |     | 0         |
| 96 | Impact of a Surface Nuclear Blast on the Transient Stability of the Power System. Lecture Notes in Computer Science, 2016, , 153-158. | 1.0 | 0         |
| 97 | Pandemics, Detection and Management. , 2017, , 1547-1553.   |     | 0         |
| 98 | Modeling Urban Mobility Networks Using Constrained Labeled Sequences. Studies in Computational<br>Intelligence, 2020, , 955-966.      | 0.7 | 0         |
| 99 | Using Network Reliability to Understand International Food Trade Dynamics. , 2019, 812, 524-535.                                      |     | Ο         |