LAUREN ANCEL MEYERS
Cooley Centennial Professor
Departments of Integrative Biology, Population Health, and Statistics & Data Sciences
The University of Texas at Austin

EDUCATION

1991-1996	*Harvard University*: B.A., Magna cum laude, Mathematics & Philosophy
1996-2000	*Stanford University*: Ph.D. in Biological Sciences, Advisor: Marcus W. Feldman

ACADEMIC POSITIONS

2023-	Founding Director, epiENGAGE (National Outbreak Analytics & Disease Modeling Center)
2020-2023	Founding Director, University of Texas at Austin COVID-19 Modeling Consortium
2011-	Professor, Department of Integrative Biology; Department of Statistics & Data Science; Department of Population Health, UT
2011-2014	Founding Chair, Department of Statistics & Data Science, UT
2007-2011	Associate Professor, Integrative Biology, UT
2008-2010	Associate Director, Division of Statistics and Scientific Computation, UT
2003-2007	Assistant Professor, Integrative Biology, UT
2003-	External Faculty, Santa Fe Institute (SFI), Santa Fe, New Mexico
2000-2002	NSF Postdoctoral Fellow at Emory University (Advisor: Bruce Levin) and SFI

ADVISORY AND BOARD POSITIONS

2023-	Member, JASON Advisory Group — Scientific and Technology Guidance for US Govt
2022-2028	Elected Member, Board of Overseers, Harvard University
2024-2025	Chair, Board of Scientific Counselors—Infectious Diseases, US CDC
2022-2025	Member, Board of Scientific Counselors—Infectious Diseases, US CDC
2022-2024	Faculty Advisor, University of Texas Strategic Implementation
2021-	Co-Founder/President, Center for Advanced Pathogen Threat and Response Simulation (CAPTRS)
2020-2022	Co-Chair, University of Texas Strategic Planning Initiative
2011-17, 2020-23	Member, Science Advisory Board, Santa Fe Institute
2021-	Member, Science Advisory Board, Institute for Pure and Applied Mathematics, UCLA
2020-2023	Member, Austin Area Executive COVID Task Force

AWARDS & FELLOWSHIPS

2018-	Denton A. Cooley Centennial Professorship, UT
2024-	Elected Member, Philosophical Society of Texas
2023	City of Austin *Key to the City* — for leadership during COVID-19 pandemic
2021	Kocurek Award, People's Community Clinic
2017	Joseph Lieberman Award for Significant Contributions to Science
2011-13, 16-18	William H. and Gladys G. Reeder Faculty Fellow, UT
2006-10, 14-15	Fellow, University of Texas Institute for Molecular and Cellular Biology
2013	Center for Excellence in Education - Excellence and Achievement Award
2010-2011	Donald D. Harrington Faculty Fellowship, UT
2005	College of Natural Sciences Teaching Excellence Award, UT
2004	MIT Technology Review TR100: One of 100 Top Global Innovators Under 35
2000-2002	National Science Foundation Postdoctoral Fellowship in Biological Informatics
2000-2002	Santa Fe Institute Postdoctoral Fellowship

2000   Samuel Karlin Prize for Ph.D Thesis in Mathematical Biology
1999   Steinmetz Fellowship, Santa Fe Institute
1996-1999   National Defense Science & Engineering Graduate Fellowship
1991-1995   U.S. Congressional National Science Scholar

PUBLICATIONS (h-index of 70)

Bi K, Bandekar SR, Bouchnita A, Cramer A, Fox SJ, Borchering RK, Biggerstaff M, Meyers LA. Estimated impact of 2022–2023 influenza vaccines on annual hospital burden in the United States, *Proc. Natl. Acad. Sci. U.S.A.* 2025; 122 (46) e2505175122, https://doi.org/10.1073/pnas.2505175122 (2025).

Gibson GC, Fox SJ, Javan E, Ptak SE, Ibrahim OM, Lachmann M, Meyers LA. Improving Outbreak Forecasts Through Model Augmentation. *Proc. Natl. Acad. Sci. U.S.A.* 2025; 122 (43) e2508575122, https://doi.org/10.1073/pnas.2508575122.

Pasco R, Hayden FG, Meyers LA. Modeling Influenza Antiviral Strategies: Reducing Burden and Preventing Resistance. *J Infect Dis.* 2025 Oct 17;232:S299-S308. doi: 10.1093/infdis/jiaf263. PMID: 41102614; PMCID: PMC12530949.

Loo SL, Jung S, Contamin L, et al. Scenario Projections of COVID-19 Burden in the US, 2024-2025. *JAMA Netw Open*. 2025;8(9):e2532469. doi:10.1001/jamanetworkopen.2025.32469

Bi K, Bandekar S, Bouchnita A, Fox SJ, Meyers LA. Annual Hospitalizations for COVID-19, Influenza, and Respiratory Syncytial Virus, United States, 2023–2024. *Emerg Infect Dis*. 2025;31(3):636-638. https://doi.org/10.3201/eid3103.240594

Mathis SM, Webber AE, León TM *et al*. Evaluation of FluSight influenza forecasting in the 2021–22 and 2022–23 seasons with a new target laboratory-confirmed influenza hospitalizations. *Nat Commun* 2024;15, 6289. https://doi.org/10.1038/s41467-024-50601-9

de Rosa F, Escott M, Walkes D, Meyers LA. Transdisciplinarity in Serious Gaming Design for Improved Crisis Preparedness. *Int J of Serious Games*. 2024; Volume 11(4).

Pasco R, Fox SJ, Lachmann M, Meyers LA. Effectiveness of interventions to reduce COVID-19 transmission in schools. *Epidemics*. 2024;47: 100762. doi:10.1016/j.epidem.2024.100762

Fox SJ, Kim M, Meyers LA, Reich NG, Ray EL. Optimizing Disease Outbreak Forecast Ensembles. *Emerg Infect Dis.* 2024;30(9):1967-1969. https://doi.org/10.3201/eid3009.240026

Du Z, Wang L, Bai Y, Liu Y, Lau EHY, Galvani AP, Krug RM, Cowling BJ, Meyers LA. A retrospective cohort study of Paxlovid efficacy depending on treatment time in hospitalized COVID-19 patients. *Elife*. 2024;13. doi:10.7554/eLife.89801

Betke BA, Gottdenker NL, Meyers LA, Becker DJ. Ecological and evolutionary characteristics of anthropogenic roosting ability in bats of the world. *iScience*. 2024;27. https://doi.org/10.1016/j.isci.2024.110369

Lipsitch M, Bassett MT, Brownstein JS, et al. Infectious disease surveillance needs for the United States: lessons from Covid-19. *Front. Public Health* 2024;12:1408193. doi: 10.3389/fpubh.2024.1408193

Jung S-M, Loo SL, Howerton E, Contamin L, Smith CP, Carcelén EC, et al. Potential impact of annual vaccination with reformulated COVID-19 vaccines: Lessons from the US COVID-19 scenario modeling hub. *PLoS Med*. 2024;21: e1004387. doi:10.1371/journal.pmed.1004387

Bouchnita A, Bi K, Fox SJ, Meyers LA. Projecting Omicron scenarios in the US while tracking population-level immunity. *Epidemics* 2024;46:100746. https://doi.org/10.1016/j.epidem.2024.100746.

Bai Y, Du Z, Wang L, Lau E, Fung I, Holme P, Cowling BJ, Galvani AP, Krug RM, Meyers LA. Public Health Impact of Paxlovid as Treatment for COVID-19, United States. *Emerg Infect Dis.* 2024;30(2):262-269. https://doi.org/10.3201/eid3002.230835.

Egbelowo OF, Fox SJ, Gibson GC, <u>Meyers LA</u>. Model for Interpreting Discordant SARS-CoV-2 Diagnostic Test Results. *Emerg Infect Dis.* 2024;30(2):388-391. doi:10.3201/eid3002.230200.

de Rosa F, Escott M, Havron D, Walkes D, <u>Meyers LA</u>. (2024). The C3C Game: Serious Games and Community-Centered Design for Improved Pandemic Decision Making. In: Dondio, P., et al. Games and Learning Alliance. GALA 2023. *Lecture Notes in Computer Science*, vol 14475. Springer, Cham. https://doi.org/10.1007/978-3-031-49065-1_14.

Johnson KE, Pasco R, Woody S, Lachmann M, Johnson-Leon M, Bhavnani D, Klima J, Paltiel AD, Fox SJ, <u>Meyers LA</u>. Optimizing COVID-19 testing strategies on college campuses: Evaluation of the health and economic costs. *PLoS Comput Biol* 2023; 19(12): e1011715. https://doi.org/10.1371/journal.pcbi.1011715.

Howerton, E., Contamin, L., Mullany, L.C. et al. Evaluation of the US COVID-19 Scenario Modeling Hub for informing pandemic response under uncertainty. *Nat Commun* 14, 7260 (2023). https://doi.org/10.1038/s41467-023-42680-x.

Du Z, Wang Y, Bai Y, Wang L, Cowling BJ, <u>Meyers LA</u>. Estimate of COVID-19 Deaths, China, December 2022–February 2023. *Emerg Infect Dis.* 2023;29(10):2121-2124. https://doi.org/10.3201/eid2910.230585

Fox SJ, Javan E, Pasco R, Gibson GC, Betke B, Herrera-Diestra JL, Woody S, Pierce K, Johnson KE, Johnson-León M, Lachmann M, <u>Meyers LA</u>. Disproportionate impacts of COVID-19 in a large US city. *PLoS Comput Biol* 2023; 19(6): e1011149. https://doi.org/10.1371/journal.pcbi.1011149.

Pasco R, Johnson K, Fox SJ, Pierce KA, Johnson-León M, Lachmann M, Morton D, <u>Meyers LA</u>. COVID-19 Test Allocation Strategy to Mitigate SARS-CoV-2 Infections across School Districts. *Emerg Infect Dis*. 2023;29(3):501-510. https://doi.org/10.3201/eid2903.220761

Bi K, Herrera-Diestra JL, Bai Y, Du Z, Wang L, Gibson G, Johnson-Leon M, Fox SJ, <u>Meyers LA</u>. The risk of SARS-CoV-2 Omicron variant emergence in low and middle-income countries (LMICs). *Epidemics* 2023; 42 https://doi.org/10.1016/j.epidem.2022.100660

Shea K et al. Multiple models for outbreak decision support in the face of uncertainty. *Proc Natl Acad Sci U S A.* 2023; 120. doi.org/10.1073/pnas.2207537120

Prasad PV et al. Multimodeling approach to evaluating the efficacy of layering pharmaceutical and nonpharmaceutical interventions for influenza pandemics. *Proc Natl Acad Sci U S A.* 2023; 120. doi.org/10.1073/pnas.2300590120

Gibson GC, Woody S, James E, Weldon M, Fox SJ, <u>Meyers LA</u>, Bhavnani D. Real time monitoring of COVID-19 intervention effectiveness through contact tracing data. *Scientific Reports* 2023; 13, 9371 (2023). https://doi.org/10.1038/s41598-023-35892-0

Javan EM, Fox SJ, <u>Meyers LA</u>. Estimating the undetected emergence of COVID-19 in the US. *PLoS ONE* 2023; 18(4): e0284025. https://doi.org/10.1371/journal.pone.0284025

Pandey A et al. Disease burden among Ukrainians forcibly displaced by the 2022 Russian invasion. *Proc Natl Acad Sci U S A.* 2023;120. doi.org/10.1073/pnas.2215424120

Lopez L, Dommar C, San José A, <u>Meyers LA</u>, Fox S, Castro L, Rodó. Changing risk of arboviral emergence in Catalonia due to higher probability of autochthonous outbreaks. *Ecological Modeling* 2023; 447 https://doi.org/10.1016/j.ecolmodel.2022.110258

Du Z et al. Pandemic fatigue impedes mitigation of COVID-19 in Hong Kong. *Proc Natl Acad Sci U S A.* 2022;119. doi.org/10.1073/pnas.2213313119

Bai Y, Du Z, Xu M, Wang L, Wu P, Lau EHY, Cowling BJ, <u>Meyers LA</u>. International risk of SARS-CoV-2 Omicron variant importations originating in South Africa. *J Travel Med*. 2022 Sep 17;29(6):taac073. doi: 10.1093/jtm/taac073.

Fox SJ, Lachmann M, Tec M, Pasco R, Woody S, Du Z, Wang X, Ingle TA, Javan E, Dahan M, Gaither K, Escott ME, Adler SI, Johnston SC, Scott JG, Meyers LA. Real-time pandemic surveillance using hospital admissions and mobility data. *Proc Natl Acad Sci U S A.* 2022;119. doi:10.1073/pnas.2111870119

Du Z, Wang L, Bai Y, Wang X, Pandey A, Fitzpatrick MC, Chinazzi M, Pastore y Piontti A, Hupert N, Lachman M, Vespignani A, Galvani AP, Cowling BJ, Meyers LA. Cost-effective proactive testing strategies during COVID-19 mass vaccination: A modelling study. 2022. *The Lancet Regional Health - Americas* 8:100182; https://doi.org/10.1016/j.lana.2021.100182.

Wang X, Du Z, James E, Fox SJ, Lachmann M, Meyers LA, Bhavnani D. The effectiveness of COVID-19 testing and contact tracing in a US city. *Proc Natl Acad Sci U S A.* 2022;119 (34), e2200652119

Du Z, Bai Y, Wang L, Herrera-Diestra JL, Yuan Z, Guo R, Cowling B, Meyers LA, Holme P. Optimizing COVID-19 surveillance using historical electronic health records of influenza infections, *PNAS Nexus*, Volume 1, Issue 2, May 2022, pgac038, https://doi.org/10.1093/pnasnexus/pgac038

Audirac M, Tec M, Meyers LA, Fox S, Zigler C. Impact of the Timing of Stay-at-Home Orders and Mobility Reductions on First-Wave COVID-19 Deaths in US Counties, *American Journal of Epidemiology*, Volume 191, Issue 5, May 2022, Pages 900–907, https://doi.org/10.1093/aje/kwac027

Cramer EY et al. Evaluation of individual and ensemble probabilistic forecasts of COVID-19 mortality in the United States. *Proceedings of the National Academy of Sciences*, 119, 15, (2022). /doi/10.1073/pnas.2113561119

Du Z, Fox SJ, Ingle T, Pignone MP, Meyers LA. Projecting the Combined Health Care Burden of Seasonal Influenza and COVID-19 in the 2020–2021 Season. MDM Policy & Practice. January 2022. doi:10.1177/23814683221084631.

Hayden FG, Asher J, Cowling BJ, Hurt AC, Ikematsu H, Kuhlbusch K, Lemenuel-Diot A, Du Z, Meyers LA, Piedra PA, Takazono T, Yen HL, Monto AS. Reducing influenza virus transmission: the value of antiviral treatment. *Clin Infect Dis.* 2022 Feb 1;. doi: 10.1093/cid/ciab625. PubMed PMID: 34245250.

Johnson KE, Woody S, Lachmann M, Fox SJ, Klima J, Hines TS, Meyers LA. Real-Time Projections of SARS-CoV-2 B.1.1.7 Variant in a University Setting, Texas, USA. *Emerg Infect Dis*. 2021;27(12):3188-3190. doi:10.3201/eid2712.210652.

Yang H, Sürer Ö, Duque D, Morton DP, Singh B, Fox SJ, Pasco R, Pierce K, Rathouz P, Valencia V, Du Z, Pignone M, Escott ME, Adler SI, Johnston SC, Meyers LA. Design of COVID-19 staged alert systems to ensure healthcare capacity with minimal closures. *Nat Commun*. 2021 Jun 18;12(1):3767. doi: 10.1038/s41467-021-23989-x. PubMed PMID: 34145252; PubMed Central PMCID: PMC8213780.

Perofsky AC, Meyers LA, Abondano LA, Di Fiore A, and Lewis RJ, Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. *Mol Ecol.* 2021 https://doi.org/10.1111/mec.16193.

Moghadas SM, Sah P, Shoukat A, Meyers LA, Galvani AG. et al. Population Immunity Against COVID-19 in the United States. *Annals of Internal Medicine*. 2021. doi:10.7326/M21-2721.

Wang X, Du Z, Johnson KE, Pasco RF, Fox SJ, Lachmann M, McLellan JS, Meyers LA. Effects of COVID-19 Vaccination Timing and Risk Prioritization on Mortality Rates, United States. *Emerg Infect Dis*. 2021 Jul;27(7):1976-1979. doi: 10.3201/eid2707.210118. PubMed PMID: 34152963

Ingle TA, Morrison M, Wang X, Mercer T, Karman V, Fox S, Meyers LA. Projecting COVID-19 isolation bed requirements for people experiencing homelessness. 2021. *PLoS ONE* 16(5): e0251153. doi:10.1371/journal.pone.0251153

Capobianco R, Kompella V, Ault J, Sharon G, Jong S, Fox S, Meyers LA, Wurman PR, Stone P. Agent-Based Markov Modeling for Improved COVID-19 Mitigation Policies. *J Artif Intell Res*. 2021;71: 953–992.

Du Z, Pandey A, Bai Y, Fitzpatrick MC, Chinazzi M, Piontti AP, Lachmann M, Vespignani A, Cowling BJ, Galvani AP, <u>Meyers LA</u>. Comparative cost-effectiveness of SARS-CoV-2 testing strategies: A modelling study. 2021. *Lancet Public Health.* https://doi.org/10.1016/S2468-2667(21)00002-5

Risanger S, Singh B, Morton D, <u>Meyers LA</u>. Selecting pharmacies for COVID-19 testing to ensure access. 2021. *Health Care Management Science*. https://doi.org/10.1007/s10729-020-09538-w

Stockmaier S, Stroeymeyt N, Shattuck EC, Hawley DM, <u>Meyers, LA</u>, Bolnick DI. Infectious diseases and social distancing in nature. *Science*. 2021; 371(6533):eabc8881. DOI: 10.1126/science.abc8881

Du Z, Wang L, Yang B, Ali ST, Tsang TK, Shan S, Wu P, Lau EHY, Cowling, BJ, <u>Meyers LA</u>. Risk for International Importations of Variant SARS-CoV-2 Originating in the United Kingdom. *Emerging Infectious Diseases*, 24 Mar 2021, 27(5):1527-1529. DOI: 10.3201/eid2705.210050 PMID: 33760727

Gillespie DL, <u>Meyers LA</u>, Lachmann M, Redd SC, Zenilman JM. The Experience of 2 Independent Schools With In-Person Learning During the COVID-19 Pandemic. *Journal of School Health*. 2021; 91(5):347-355. https://doi.org/10.1111/josh.13008

Pasco RF, Fox SJ, Johnston SC, Pignone M, <u>Meyers LA</u>. Estimated association of construction work with risks of COVID-19 infection and hospitalization in Texas. *JAMA Network Open*. 2020;3(10):e2026373. doi:10.1001/jamanetworkopen.2020.26373

Singh B, Risanger S, Morton D, Pignone M, <u>Meyers LA</u>. Expanding access to COVID-19 tests through US Postal Service facilities. *Medical Decision Making*. 2020. https://doi.org/10.1177/0272989X20969690

Pierce KA, Ho E, Wang X, Pasco R, Du Z, Zynda G, Song J, Wells G, Fox S, <u>Meyers LA</u>. Early COVID-19 pandemic modeling: Three compartmental model cases studies from Texas, USA. *Computing in Science & Engineering*. 2020. doi: 10.1109/MCSE.2020.3037033

Duque D, Morton DP, Singh B, Du Z, Pasco R, <u>Meyers LA</u>. Timing social distancing to avert unmanageable COVID-19 hospital surges. *Proceedings of the National Academy of Sciences.* Aug 2020, 117 (33) 19873-19878; DOI: 10.1073/pnas.2009033117

Du Z, Javan E, Nugent C, Cowling BJ, <u>Meyers LA</u>. Using the COVID-19 to influenza ratio to estimate early pandemic spread in Wuhan, China and Seattle, US. *EClinicalMedicine*. 2020; 26:100479. DOI: https://doi.org/10.1016/j.eclinm.2020.100479

Scarpino SV, Scott JG, Eggo RM, Clements B, Dimitrov NB, <u>Meyers LA</u>. Socioeconomic bias in influenza surveillance. *PLoS Computational Biology*. 2020; 16(7): e1007941. DOI: 10.1371/journal.pcbi.1007941

Du Z, Xu X, Wang L, Fox SJ, Cowling BJ, Galvani AP, <u>Meyers LA</u>. Effects of proactive social distancing on COVID-19 outbreaks in 58 cities, China. *Emerging Infectious Diseases*. 2020;26(9):2267-2269. doi:10.3201/eid2609.201932

Wang X, Du Z, Huang G, Pasco RF, Fox SJ, Galvani AP, Pignone M, Johnston SC, <u>Meyers LA</u>. Effects of cocooning on coronavirus disease rates after relaxing social distancing. *Emerging Infectious Diseases*. 2020; 26(12). DOI: 10.3201/eid2612.201930

Wang X, Pasco RF, Du Z, Petty M, Fox SJ, Galvani AP, Pignone M, Johnston SC, <u>Meyers LA</u>. Impact of social distancing measures on coronavirus disease healthcare demand, central Texas, USA. *Emerging Infectious Diseases*. 2020;26(10):2361-2369. doi:10.3201/eid2610.201702

Du Z, Nugent C, Galvani AP, Krug RM, <u>Meyers LA</u>. Modeling mitigation of influenza epidemics by baloxavir. *Nature Communications*. 2020; 11:2750. DOI: 10.1038/s41467-020-16585-y

Du Z, Wang L, Xu X, Wu Y, Cowling BJ, <u>Meyers LA</u>. The serial interval of COVID-19 among publicly reported confirmed cases. *Emerg Infect Dis*. 2020;26. doi:10.3201/eid2606.200357

Meyers, LA, Zhanwei D, and Krug RM. Hoping for a COVID-19 antiviral that limits virus spread. *Nature Research Microbiology Community*. June 2020.

Meyers LA. 2020. The secret life of coronavirus: Why we need such drastic social distancing measures. *The Economist Intelligence Unit*. March 2020.

Weitz, JS, Lenski RE, Meyers LA, Dushoff J. Scientists do the math to show how large events like March Madness could spread coronavirus. *Atlanta Journal Constitution.* March 2020.

Castro LA, Bedford T, Meyers LA. Early prediction of antigenic transitions for influenza A/H3N2. *PLoS Comput Biol*. 2020;16: e1007683

Morrison M, Castro LA, Meyers LA. Conscientious vaccination exemptions in kindergarten to eighth-grade children across Texas schools from 2012 to 2018: A regression analysis. *PLoS Medicine*. 2020;17: e1003049

Buckee CO, Balsari S, Chan J, Crosas M, Dominici F, Gasser U, et al. Aggregated mobility data could help fight COVID-19. Science. 2020;368: 145–146

Moghadas SM, Shoukat A, Fitzpatrick MC, Wells CR, Sah P, Pandey A, et al. Projecting hospital utilization during the COVID-19 outbreaks in the United States. *Proc Natl Acad Sci U S A*. 2020. doi:10.1073/pnas.2004064117

Wells CR, Sah P, Moghadas SM, Pandey A, Shoukat A, Wang Y, et al. Impact of international travel and border control measures on the global spread of the novel 2019 coronavirus outbreak. *Proc Natl Acad Sci U S A*. 2020;117: 7504–7509

Du Z, Wang L, Cauchemez S, Xu X, Wang X, Cowling BJ, Meyers LA. Risk for Transportation of 2019 Novel Coronavirus Disease from Wuhan to Other Cities in China. *Emerg Infect Dis*. 2020;26. doi:10.3201/eid2605.200146

Sah P, Alfaro-Murillo JA, Fitzpatrick MC, Neuzil KM, Meyers LA, Singer BH, Galvani AP (2019) Future epidemiological and economic impacts of universal influenza vaccines. *Proceedings of the National Academy of Sciences* 116 (41) 20786-20792; DOI: 10.1073/pnas.1909613116

Fox SJ, Bellan SE, Perkins TA, Johansson MA, Meyers LA (2019) Downgrading disease transmission risk estimates using terminal importations. *PLoS Negl Trop Dis* 13(6): e0007395. https://doi.org/10.1371/journal.pntd.0007395

Wells CR, Pandey A, Parpia AS, Fitzpatrick MC, Meyers LA, Singer BH, & Galvani AP (2019). Ebola vaccination in the Democratic Republic of the Congo. *Proceedings of the National Academy of Sciences*, *116*(20), 10178 LP-10183. https://doi.org/10.1073/pnas.1817329116

Chen X, Dimitrov NB, Meyers LA (2019) Uncertainty analysis of species distribution models. *PLoS ONE* 14(5): e0214190. https://doi.org/10.1371/journal.pone.0214190

Shen M, Xiao Y, Rong L, & Meyers LA (2019). Conflict and accord of optimal treatment strategies for HIV infection within and between hosts. *Mathematical Biosciences*, *309*, 107–117. https://doi.org/https://doi.org/10.1016/j.mbs.2019.01.007

Ertem Z, Raymond D, Meyers LA (2018) Optimal multi-source forecasting of seasonal influenza. *PLoS Computational Biology*. doi.org/10.1371/journal.pcbi.1006236

Perofsky AC, Lewis RJ, Meyers LA (2018) Terrestriality and bacterial transfer: a comparative study of gut microbiomes in sympatric Malagasy mammals. *The ISME Journal*. doi.org/10.1038/s41396-018-0251-5

Bellan SE, Champredon D, Dushoff J, Meyers LA (2018) Couple serostatus patterns in sub-Saharan Africa illuminate the relative roles of transmission rates and sexual network characteristics in HIV epidemiology. *Scientific Reports* 8: 6675 https://doi.org/10.1038/s41598-018-24249-7

Johansson MA, Reich JG, Meyers LA; Lipsitch M (2018) Preprints: An underutilized mechanism to accelerate outbreak science. *PLoS Medicine* 15: e1002549. https://doi.org/10.1371/journal.pmed.1002549.

Shen M, Xiao Y, Rong L, Meyers LA; Bellan, SE (2018) 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* 16(1):58. doi: 10.1186/s12916-018-1047-1.

Perofsky AC, Lewis RJ, Abondano LA, Di Fiore A, Meyers LA (2017) Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka. *Proceedings of the Royal Society B* DOI: 10.1098/rspb.2017.2274

Fox SJ, Miller JC, Meyers LA (2017) Seasonality in risk of pandemic influenza emergence. *PLOS Computational Biology* DOI: 10.1371/journal.pcbi.1005749

Huang H-C, Singh B, Morton DP, Johnson GP, Clements B, Meyers LA (2017) Equalizing access to pandemic influenza vaccines through optimal allocation to public health distribution points. *PLoS ONE* 12(8): e0182720. https://doi.org/10.1371/journal.pone.0182720

Shen M, Xiao Y, Rong L, Meyers LA, Bellan SE. (2017) Early antiretroviral therapy and potent second-line drugs could decrease HIV incidence of drug resistance. *Proceedings of the Royal Society B* DOI: 10.1098/rspb.2017.0525

Huang, H.-C., Araz, O. M., Morton, D. P., Johnson, G. P., Damien, P., Clements, B., & Meyers, L. A. (2017). Stockpiling Ventilators for Influenza Pandemics. *Emerging Infectious Diseases*, 23(6), 914–921. http://doi.org/10.3201/eid2306.161417

Singh B and Meyers LA (2017) Estimation of single-year-of-age counts of live births, fetal losses, abortions, and pregnant women for counties of Texas. *BMC Research Notes* DOI: 10.1186/s13104-017-2496-x

Castro LC, Fox SJ, Chen X, Liu K, Bellan SE, Dimitrov NB, Galvani AP, Meyers LA (2017) Assessing real-time Zika risk in the United States. *BMC Infectious Diseases* DOI: 10.1186/s12879-017-2394-9

Scarpino SV, Meyers LA, Johansson MA. (2017) Design Strategies for Efficient Arbovirus Surveillance. *Emerging Infectious Diseases* DOI: 10.3201/eid2304.160944.

Herrera, J.L., R. Srinivasan, J.S. Brownstein, A.P. Galvani, L.A. Meyers (2016). Disease Surveillance on Complex Social Networks. *PLoS Computational Biology*. DOI: 10.1371/journal.pcbi.1004928.

Eggo, R.M., J.G. Scott, A.P. Galvani, L.A. Meyers (2016) Respiratory virus transmission dynamics determine timing of asthma exacerbation peaks: Evidence from a population-level model *Proceedings of the National Academy of Sciences*. DOI: 10.1073/pnas.1518677113.

Fischer, L.S., S. Santibanez, R.J.Hatchett, D.B. Jernigan, L.A. Meyers, P.G. Thorpe, M.I. Meltzer (2016) CDC Grand Rounds: Modeling and Public Health Decision-Making. *MMWR Morb Mortal Wkly Rep* 65:1374–1377. DOI: DOI: 10.15585/mmwr.mm6548a4.

Althouse, B.M., S.V. Scarpino, L.A. Meyers et al. (2015) Enhancing disease surveillance with novel data streams: challenges and opportunities. *EPJ Data Science* 4:17.

Hoen, A.G., T.J. Hladish, R.M. Eggo, M. Lenczner, J.S. Brownstein, L.A. Meyers (2015) Epidemic Wave Dynamics Attributable to Urban Community Structure: A Theoretical Characterization of Disease Transmission in a Large Network. *J Med Internet Res* 17(7):e169.

Bellan, S.E., J. Dushoff, A. Galvani, L.A. Meyers (2015). Reassessment of HIV-1 Acute Phase Infectivity: Accounting for Heterogeneity and Study Design with Simulated Cohorts. *PLoS Medicine* 12: e1001801. doi: 10.1371/journal.pmed.1001801

Bellan, S.E., J.R.C. Pulliam, C.A.B. Pearson, D. Champredon, S.J. Fox, L. Skrip, A.P. Galvani, M. Gambhir, B.A. Lopman, T.C. Porco, L.A. Meyers, J. Dushoff (2015). The statistical power and validity of Ebola vaccine trials in Sierra Leone: A simulation study of trial design and analysis. *Lancet Infectious Diseases* 15: 703-710

Gutfraind, S., A. Galvani, L.A. Meyers (2015) Efficacy and Optimization of Palivizumab Injection Regimens against RSV. *JAMA Pediatrics*. DOI:10.1001/jamapediatrics.2014.3804.

Gutfraind, S. and L.A. Meyers (2015) Evaluating large-scale blood transfusion therapy for the current Ebola epidemic in Liberia. *Journal of Infectious Diseases*. DOI:10.1093/infdis/jiv042.

Singh B, Huang HC, Morton D, Johnson G, Gutfraind A, Galvani A, Clements B, Meyers LA (2015) Optimizing Distributions of Pandemic Influenza Antivirals. *Emerging Infectious Diseases* 21:251-258.

Bellan, S.E., J.R.C. Pulliam, J. Dushoff, and L.A. Meyers (2014) Letter: Ebola virus vaccine trials: the ethical mandate for a therapeutic safety net. *British Medical Journal* 349:g7518.

Bellan, S.E., J.R.C. Pulliam, J. Dushoff, and L.A. Meyers (2014) Correspondence: Ebola control: effect of asymptomatic infection and acquired immunity. *The Lancet* 385: 1499-1500.

Scarpino, S.V., A. Lamarino, C. Wells, D. Yamin, M. Ndeffo-Mbah, N.S. Wenzel, S.J. Fox, T. Nyenswah, F.L. Altice, A.P. Galvani, L.A. Meyers, J.P. Townsend (2014) Epidemiological and viral genomic sequence analysis of the 2014 Ebola outbreak reveals clustered transmission. *Clinical Infectious Diseases*.

Lofgren et al. [19th of 20 authors] (2014) Opinion: Mathematical models: A key tool for outbreak response. *Proceedings of the National Academy of Sciences* 11: 18095-18096.

Scarpino, S.V., D.A. Levin and L.A. Meyers (2014) Polyploid formation shapes flowering plant diversity. *The American Naturalist* 184: 456-465.

Fitzpatrick M.C., K. Hampson, S. Cleaveland, I. Mzimbiri, F. Lankester, T. Lembo, L.A. Meyers, A.D. Paltiel and A.P. Galvani (2014) Cost-effectiveness of canine vaccination to prevent human rabies in rural Tanzania. Ann Intern Med. 160 (2) :91-100. PMID: 24592494

Rushmore, J., D. Caillaud, R. Hall, R. Stumpf, L.A. Meyers, and S. Altizer (2014) Network-based vaccination improves prospects for disease control in wild chimpanzees. Journal of the Royal Society Interface 11: 20140349.

Gilbert, J.A., L.A. Meyers, A.P. Galvani and J.P. Townsend (2014) Probabilistic uncertainty analysis of epidemiological modeling to guide public health intervention policy. Epidemics 6:37-45. Epub 2013 Nov 19. PMID: 24593920.

Caillaud, D., M.E. Craft and L.A. Meyers (2013) Epidemiological effects of group size variation in social species. *Journal of the Royal Society Interface* 10: 20130206.

Ndeffo Mbah, M.L., J. Medlock, L.A. Meyers, A.P. Galvani, A.P., J.P. Townsend (2013) Optimal targeting of seasonal influenza vaccination toward younger ages is robust to parameter uncertainty. Vaccine 30: 3079-89. PMID: 23684837

Ndeffo Mbah, M.L., E.F. Kjetland, K.E. Atkins, E.M. Poolman, E.W. Orenstein, L.A. Meyers, J.P. Townsend, A.P. Galvani (2013) Cost-effectiveness of a community-based intervention for reducing the transmission of Schistosoma haematobium and HIV in Africa. *Proceedings of the National Academy of Sciences* 19: 7952-7.

Ndeffo Mbah ML, Poolman EM, Atkins KE, Orenstein EW, Meyers LA, Townsend JP and Galvani AP (2013) Potential Cost-Effectiveness of Schistosomiasis Treatment for Reducing HIV Transmission in Africa - The Case of Zimbabwean Women. PLoS Negl Trop Dis. 8:e2346. PMID: 23936578

Durham, D.P., M.L. Ndeffo Mbah, J. Medlock, P.M. Luz, L.A. Meyers, A.D. Paltiel, A.P. Galvani, A.P. (2013) Dengue dynamics and vaccine cost-effectiveness in Brazil. Vaccine 37: 3957-61. PMID: 23791696.

Scarpino, S.V., N.B. Dimitrov, L.A. Meyers (2012) Optimizing Provider Recruitment for Influenza Surveillance Networks. *PLoS Computational Biology* 8: e1002472.

Bansal, S. and L.A. Meyers (2012) The impact of past epidemics on future disease dynamics. J*ournal of Theoretical Biology* 309: 176-184.

Hladish, T.J., E. Melamud, L.A. Barrera, A. Galvani, L.A. Meyers (2012) EpiFire: An open source C++ library and application for contact network epidemiology. *BMC Bioinformatics* 13: 76.

Fitzpatrick M.C., K. Hampson, S. Cleaveland, L.A. Meyers, J.P. Townsend, A.P. Galvani (2012) Potential for Rabies Control through Dog Vaccination in Wildlife-Abundant Communities of Tanzania*. PLoS Neglected Tropical Diseases* 6(8): e1796.

Araz, O.M., P. Damien, D.A. Paltiel, S. Burke, B. van de Geijn, A. Galvani, L.A. Meyers (2012) Simulating school closure policies for cost effective pandemic decision making. *BMC Public Health* 12: 449.

Davoudi, B. J.C. Miller, R. Meza, <u>L.A. Meyers</u>, D.J.D. Earn, B. Pourbohloul (2012) Early Real-Time Estimation of the Basic Reproduction Number of Emerging Infectious Diseases. *Physial Review X* 2: 031005.

Araz, O.M., A. Galvani, <u>L.A. Meyers</u> (2012) Geographic prioritization of distributing pandemic influenza vaccines. *Health Care Management Science*.

Benavides, J. P.D., Walsh, <u>L.A. Meyers</u>, M. Raymond, D. Caillaud (2012) Transmission of Infectious Diseases En Route to Habitat Hotspots. PLoS ONE 7(2): e31290.

Tekle, Y.I., K.M. Nielsen, J. Liu, M.M. Pettigrew, <u>L.A. Meyers</u>, A.P. Galvani and J.P. Townsend (2012) Controlling Antimicrobial Resistance through Targeted, Vaccine-Induced Replacement of Strains. PLoS ONE 7: e50688.

Mbah, M.L.N., J. Liu, C.T. Bauch, Y.I. Tekel, J. Medlock, <u>L.A. Meyers</u>, A.P. Galvani (2012) The impact of imitation versus rationality on vaccination behavior in social contact networks. *PLoS Computational Biology* 8(4): e1002469.

Volz, E.M., J.C.Miller, A.P. Galvani, <u>L.A. Meyers</u> (2011) Effects of Heterogeneous and Clustered Contact Patterns on Infectious Disease Dynamics. *PLoS Computational Biology* 7: e1002042.

Cornforth, D., T. Reluga, A. Galvani, C. Bauch, E. Shim, <u>L.A. Meyers</u> (2011) Erratic flu vaccination emerges from short-sighted behaviour in contact networks. *PLoS Computational Biology* 7: e1001062.

Dimitrov, N., S. Goll, N. Hupert, B. Pourbohloul, <u>L.A. Meyers</u> (2011) Optimizing Tactics for use of the U.S. Antiviral Strategic National Stockpile for Pandemic Influenza. *PLoS ONE* 6: e16094.

Conway et al. (<u>L.A. Meyers</u> 11th of 21 authors) (2011) Vaccination against 2009 pandemic H1N1 in a population dynamical model of Vancouver, Canada: timing is everything. *BMC Public Health* 11: 932.

Li, M., G.B. Chapman, Y. Ibuka, <u>L.A. Meyers</u>, A.P. Galvani (2011) Who got vaccinated against H1N1 pandemic flu? A longitudinal study. *Psychology and Health.* DOI:10.1080/08870446.2011.554833.

Wells, C., J.M. Tchuenche, <u>L.A. Meyers</u>, A.P. Galvani, C.T. Bauch (2011) Impact of Imitation Processes on the Effectiveness of Ring Vaccination. *Bulletin of Mathematical Biology*. DOI 10.1007/s11538-011-9646-4.

E. Shim, <u>L.A. Meyers</u>, A.P. Galvani. (2011) Optimal H1N1 vaccination strategies based on self-interest versus group interest. *BMC Public Health* 11(Suppl 1): S4.

Craft, M.E., E. Volz, C. Packer, <u>L.A. Meyers</u> (2010) Disease transmission in territorial populations: The small-world network of Serengeti lions. *Journal of the Royal Society Interface* 8: 776-786.

Volz, E., S.D.W. Frost, R. Rothenberg, <u>L.A. Meyers</u> (2010) Epidemiological bridging by injection drug use drives an early HIV epidemic. *Epidemics* 2: 155-164.

[1]Bansal, S., J. Read, B. Pourbohloul, <u>L.A. Meyers</u> (2010) The dynamic nature of contact networks in infectious disease epidemiology. *Journal of Biological Dynamics* 4: 478-489.

Dimitrov, N.B. and <u>L.A. Meyers</u> (2010) Mathematical Approaches to Infectious Disease Prediction and Control. J. J. Hasenbein, ed. *INFORMS TutORials in Operations Research* 7: 1-25.

Ibuka, Y., G.B. Chapman, <u>L.A. Meyers</u>, M. Li, A.P. Galvani (2010) The dynamics of risk perceptions and precautionary behavior in response to 2009 (H1N1) pandemic influenza. *BMC Infectious Diseases* 10: 296.

Bansal, S., B. Pourbohloul, N. Hupert, B. Grenfell, <u>L.A. Meyers</u> (2010) The Shifting Demographic Landscape of Pandemic Influenza. *PLoS ONE* 5: e9360. (*Earlier version published on PLoS Currents Influenza (2009)*)

Medlock, J., <u>L.A. Meyers</u>, A. Galvani (2009) Optimizing allocation for a delayed influenza vaccination campaign. *PLoS Currents: Influenza*: RRN1134.

Bansal, S., S. Khandelwal, <u>L.A. Meyers</u> (2009) Exploring Biological Network Structure with Clustered Random Networks. *BMC Bioinformatics* 10: 405.

Pourbohloul, B., A. Ahued, B. Davoudi, R. Meza, <u>L.A. Meyers</u>, et al. (2009) Initial human transmission dynamics of the pandemic (H1N1) 2009 virus in North America. *Influenza and other Respiratory Viruses* 3: 215-222.

Craft, M.E., E. Volz, C. Packer, <u>L.A. Meyers</u> (2009) Distinguishing epidemic waves from disease spillover in a wildlife population. *Proc Royal Society B: Biological Sciences* 276: 1777-1785.

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[1] Awarded Lord Robert May Best Paper Prize for articles published in *Journal of Biological Dynamics* from 2009 to 2011.

L.A. Meyers (2008) *Statistics Primer*. To accompany *Life: The Science of Biology,* 8th Edition. Sinauer Associates.

Cowperthwaite, M.C., E.P. Economo, W.R. Harcombe, E.L. Miller, L.A. Meyers (2008) A Simple Rule Shapes Phenotype Evolution. *PLoS Computational Biology* 4: e1000110.

Volz, E., L.A. Meyers (2008) Static network approximations and epidemic thresholds for a simple SIR model in dynamic contact networks. *Journal of the Royal Society Interface* 6: 233-241.

Volz, E., L.A. Meyers (2007) Susceptible–infected–recovered epidemics in dynamic contact networks. *Proceedings of the Royal Society B: Biological Sciences* 274: 2925-2933. doi: 10.1098/rspb.2007.1159

Bansal, S., B.T. Grenfell, L.A. Meyers (2007) When individual behavior matters: homogeneous and network models in epidemiology. *Journal of the Royal Society Interface* 4: 879-891.

Meyers, L.A. (2007) Contact network epidemiology: Bond percolation applied to infectious disease prediction and control. *Bulletin of the American Mathematical Society* 44: 63-86.

Cowperthwaite, M., L.A. Meyers (2007) How mutational networks shape evolution: Lessons from RNA models. *Annual Review of Ecology, Evolution, and Systematics* 38: 203-230.

Bansal, S., B. Pourbohloul, L.A. Meyers (2006) A comparative analysis of influenza vaccination programs. *PLoS Medicine* 3: e387. doi: 10.1371/journal.pmed.0030387

Ferrari, M.J., S. Bansal, L.A. Meyers, O.N. Bjørnstad (2006) Network frailty and the geometry of herd immunity. *Proceedings of the Royal Society B: Biological Sciences* 273: 2743-2748.

Meyers, L.A., M.E.J. Newman, B. Pourbohloul (2006) Predicting epidemics on directed contact networks. *Journal of Theoretical Biology* 240: 400-418

Cowperthwaite, M., J.J. Bull, L.A. Meyers (2006) From bad to good: Fitness reversals and the ascent of deleterious mutations. *PLoS Computational Biology* 2: e141.

Meyers, L.A., D.A. Levin (2006) On the abundance of polyploids in flowering plants. *Evolution* 60: 1198-1206.

Cowperthwaite, M., J.J. Bull, L.A. Meyers (2005) Distributions of beneficial fitness effects in RNA. *Genetics* 170: 1449-1457.

Meyers, L.A., F. Ancel, M. Lachmann (2005) Evolution of genetic potential. *PLoS Computational Biology* 1: 236-243.

Meyers, L.A., B. Pourbohloul[1], M.E.J. Newman, D.M. Skowronski, R.C. Brunham (2005) Network theory and SARS: Predicting outbreak diversity. *Journal of Theoretical Biology* 232: 71-81. doi: 10.1016/j.jtbi.2004.07.026

Pourbohloul, B., L.A. Meyers[2], Krajden, M., Patrick, D.M., Brunham, R.C. (2005) A quantitative comparison of control strategies for respiratory-borne pathogens. *Emerging Infectious Diseases* 11: 1249-1256.

Bull, J.J., L.A. Meyers, M. Lachmann (2005) Quasispecies made simple. *PLoS Computational Biology* 1: 450-460.

Meyers, L.A. (2005) Constraints on variation from genotype through phenotype to fitness, in "Variation: A Hierarchical Examination of a Central Concept in Biology" (B. Hallgrimsson and B. Hall, Eds.), Academic Press.

Meyers, L.A. and W. Fontana (2005) Evolutionary lock-in and the origin of modularity in RNA structure, in "Modularity – Understanding the Development and Evolution of Complex Natural Systems" (W. Callebaut and D. Rasskin-Gutman, Eds.), MIT Press.

Meyers, L.A. (2004) Book review of Gerhard Schlosser and Günter Wagner (Eds.), "Modularity in Development and Evolution" *Science* 306: 814-815.

Meyers, L.A. (2004) Book review of Bruce H. Weber and David J. Depew (Eds.), "Evolution and Learning: The Baldwin Effect Reconsidered" *American Journal of Human Biology* 16: 495-496.

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[2] First two authors contributed equally.

Meyers, L.A., J.F. Lee, M. Cowperthwaite, A.D. Ellington (2004) The robustness of naturally and artificially selected nucleic acid secondary structures. *Journal of Molecular Evolution* 58: 681-691.

Lee, J.F., J.R. Hesselberth, L.A. Meyers, and A.D. Ellington (2004) Aptamer database. *Nucleic Acids Research*, 32: D95-D100.

Meyers, L.A., B.R. Levin, A.R. Richardson and I. Stojilkovic (2003) Epidemiology, hypermutation, within-host evolution and the virulence of *Neisseria meningitidis*. *Proceedings of the Royal Society B: Biological Sciences* 270: 1667-1677.

Meyers, L.A., M.E.J. Newman, M. Martin and S. Schrag (2003) Applying network theory to epidemics: Control measures for *Mycoplasma pneumoniae* outbreaks. *Emerging Infectious Diseases* 9: 204-210.

De Visser, J.A.G.M., J. Hermisson, G.P. Wagner, L.A. Meyers, et al. (2003) Perspective: Evolution and Detection of Genetic Robustness. *Evolution* 57: 1959-1972.

Meyers, L.A. and J.J. Bull (2002) Fighting change with change: adaptive variation in an uncertain world. *Trends in Ecology and Evolution* 17: 551-557.

Ancel[3], L.W. and W. Fontana (2000) Plasticity, evolvability and modularity in RNA. *Journal of Experimental Zoology (Molecular and Developmental Evolution)* 288: 242-283. doi: 10.1002/1097-010x(20001015)288:3<242::aid-jez5>3.0.co;2-o.

Ancel, L.W. (2000) Undermining the Baldwin expediting effect: How phenotypic plasticity influences the rate of evolution. *Theoretical Population Biolgy*, 58: 307-319.

Ancel, L.W. (1999) A quantitative model of the Simpson-Baldwin effect. *Journal of Theoretical Biology* 196: 197-209.

Ancel, L.W. and M. W. Hero (1998) One-way intervals of circle maps. *Proceedings of the American Mathematical Society* 126: 1191-1197.

Ancel, L.W. (1992,94) National Security Agency Cryptologic Mathematics Papers: Three classified internal publications.

RESEARCH SUPPORT

CURRENT SUPPORT

PRIOR SUPPORT

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[3] Papers published prior to 2012 are under maiden name, Lauren W. Ancel

CSTE/CDC, NU38OT000297, Predicting United States and International seasonal influenza healthcare needs using immunity-aware semi-mechanistic models, 9/23-7/24 (co-PI)

CSTE/CDC, NU38OT000297, Predicting COVID-19 and RSV healthcare needs using immunity-awar semi-mechanistic models, 7/23-7/24 (co-PI)

NIGMS-NIH, 1U24GM132013: MIDAS Coordinating Center, 7/19-6/23 (Co-PI)

NSF, 2200169, PIPP Phase I: Center for Pandemic Decision Science - Developing Robust Paradigms for Anticipating and Mitigating Uncertain Pathogen Threats, 9/22-2/24 (PI)

DSHS, SARS-CoV-2 Variant Network Sampling Strategy and Modeling, 9/21-11/23 (PI)

CSTE/CDC, NU38OT000297, A multi-scale, mechanistic model of COVID-19 healthcare usage in the US for behavior-driven forecasting and the evaluation of layered intervention strategies, 11/21-1/23 (PI)

CSTE/CDC, NU38OT000297, Development of forecasts and/or scenario projections for influenza to inform public health decision-making, 10/22-7/23 (co-PI)

CDC, 75D30122C14776, Support translation and operational science and technology advanced to improve CDC's use of forecasting, modeling and analytical approaches to inform public health policy development, 8/22-8/23 (PI)

CSTE/CDC, NU38OT000297, Forecasting influenza hospitalizations with multi-scale curve fitting – a flexible framework integrating healthcare capacity and behavioral change, 11/21-10/22 (PI)

NSF, S000647, US-UK Collab: Adaptive surveillance and control for the elimination of endemic disease, 9/20-6/22 (Co-PI, Primary PI-Ferrari)

UTMB/CDC U01CK000512, Western Gulf Center of Excellence for Vector-borne Diseases, 12/16-12/21 (Co-PI, Primary PI-Weaver)

Rockefeller Foundation, COVID-19 Healthcare Projection Dashboard to Inform Local Decision-Making throughout the US, 3/20-1/22 (PI)

Rockefeller Foundation, UT Austin Vaccines Planning Tool for COVID-19 Modeling Accelerator (CMA), 3/20-1/22 (PI)

NIH T32, BD2K: Training program for inference on complex biological data, 6/16-5/21, (PI)

Rockefeller Foundation/Johns Hopkins University: Coupling COVID-19 Social Distancing with Influenza Vaccination to Manage Healthcare Surges, 7/20-12/20 (PI)

Center Grant--BEACON: An NSF Science and Technology Center for the Study of Evolution in Action. 8/10-7/21 (Consortium of universities led by Michigan State University. Meyers is one of five co-PI's at UT.)

NIH, U01GM087719-01, Dynamic data-driven decision models for infectious disease control, 8/14-4/20 (PI, Multi-PI with A. Galvani)

Texas Department of State Health Services (DSHS), Evaluation of Texas DSHS Vaccine Coverage Surveys, 1/18-6/19 (PI)

Defense Threat Reduction Agency, Surety BioEvent App: BioEvent Surveillance, Detection and Prediction Leveraging Trusted NextGen Data Sources, 5/14-4/17 (Co-PI)

NIH MIDAS, U01GM087719-01, Impacts of Individual and Social Behavior on Influenza Dynamics and Control. 5/09-4/15 (PI, Multi-PI with A. Galvani)

Center for Disease Control and Prevention (CDC) and Association of Public Health Labs (APHL), Evaluating and Optimizing the National Laboratory-Based Surveillance, 1/15-6/15 (PI)

Texas Department of State Health Services (DSHS), Arbovirus Surveillance and Control: Optimizing the detection and mitigation of West Nile Virus, Dengue Fever, and Chikungunya outbreaks, 1/15-6/15 (PI)

Center for Disease Control and Prevention (CDC) and Association of Public Health Labs (APHL), Evaluating and Optimizing the National Laboratory-Based Surveillance, 10/13-6/14 (PI)

Texas Department of State Health Services (DSHS), Decision-support tool for Pandemic Influenza Allocation of Antiviral Stockpile, 11/13-6/14 (PI)

Center for Disease Control and Prevention (CDC) and Association of Public Health Labs (APHL), Evaluating and Optimizing the National Laboratory-Based Surveillance, 10/12-9/13 (PI)

NSF, DEB-0749097, The Spread and Evolution of Parasites on Host Networks, 9/08-8/13 (PI)

Texas Department of State Health Services (DSHS), Pandemic Flu Decision-Support Toolkit for the State of Texas, 9/12-8/13 (PI)

NIH, 1R21DA024611-01A, Combining empirical and theoretical network approaches to HIV transmission, 6/09-5/12 (Co-I)

James S. McDonnell Foundation Research Award, The Evolutionary and Epidemiological Potential of Pathogens. 01/07-1/11 (PI)

Texas Department of State Health Services (DSHS), Quantitative Tools for Pandemic Flu Forecasting and Control, 4/11-7/11 (PI)

Texas Department of State Health Services (DSHS), Assessment of Texas Influenza Surveillance Program, 8/09-7/10 (PI)

NSF, SES-0940071, COLLABORATIVE RESEARCH: Dynamic Risk Perceptions about Mexican Swine Flu, 7/09-6/10 (PI)

Canadian Institutes of Health Research (CIHR), Evaluation of Ontario's Influenza Immunization Program, 01/07-12/09 (Co-I)

Bill and Stephanie Sick Research Award, Quantitative Prediction and Control of Epidemics, 09/07-12/09 (PI)

Canadian Institutes of Health Research (CIHR), Mathematical modeling of pandemic influenza, 09/06-08/09 (Co-I)

NSF, DEB-0445351, Evolution, Conflict and Cooperation in Mixed-species Bacterial Communities, 3/05-2/09 (PI)

NSF, ITR Collaborative Research: Building the Tree of Life - A National Resource for Phyloinformatics and Computational Phylogenetics, 9/03-8/08 (Co-PI)

Canadian Institutes of Health Research (CIHR), Public Health Preparedness for the Vancouver 2010 Olympic Games, 4/06-3/07 (Co-I)

Canadian Institutes of Health Research (CIHR), The spread and evolution of SARS coronaviruses through contact networks, 7/04-12/05 (Co-PI)

NSF, DEB-0303636, Evolving better biofilms: The dynamics of community-level natural selection in bacteria, 2/03-1/04 (PI)

Canadian Institutes of Health Research (CIHR), SARS: A Scientific Collaborative to Support Public Health Response through Vaccination, 5/03-3/04 (Co-I)

INTERVIEWS AND MEDIA COVERAGE OF RESEARCH

Extensive coverage of COVID-19 research, including *CNN, MSNBC, BBC, NPR, Economist, New York Times, Wall Street Journal, Washington Post, New Yorker, USA Today, Wired, Politico, Reuters, Associated Press, Huffington Post, STAT, FiveThirtyEight, The Atlantic, MoneyBall podcast*

- As of September 2022, mentioned in over 16,000 independent news clips that have received more than 29.8 billion unduplicated visitors.

- One of UT's most cited experts since February 2020, and #1 most cited expert at UT in February 2020 through November 2020, and March 2021

Featured in Dell Medical School's *Mission Critical* as part of an interdisciplinary team shaping the future of health (2023)

Coverage of *PLoS Computational Biology* paper on influenza forecasting: *The Now TV*, *KXAN*, *KLBJ*

Coverage of *PLoS Computational Biology* paper on pandemic emergence: *New York Times*, *NPR* (2017)

Coverage of *BMC Infectious Diseases* paper on Zika risk assessment: Austin American Statesman, Texas Standard, CBS Austin, Science Daily (2017)

Coverage of *PNAS* paper on common cold and asthma: *Austin American Statesman, Medical Express, Healio*, *TheDoctorWillSeeYouNow.com*, *Fox TV Florida* (2016-2017)

Interviewed by CDC's *Beyond the Data* (2016)

Interview regarding measles outbreaks and vaccination: *Wall Street Journal* (2015)

Radio interview on pandemic influenza containment strategies: KUT (2015)

Podcast on 2015 West African Ebola epidemic: Huffington Post (2015)

Coverage of 2014-2015 Ebola research: *NBC News, Washington Post, Huffington Post, Reuters, Yahoo, BBC, Guardian, Daily Mail, KVUE* (2014-15)

Interview regarding disease outbreaks in Texas immigrant populations: *KVUE* (2014)

Interviews regarding Texas Pandemic Flu Toolkit (flu.tacc.utexas.edu): *Fox 7 Good Day Austin, KEYE morning news, Vaccine News Daily, The Alcade, UT Banner* (2012)

Interviews relating to H1N1 (swine) flu pandemic: *Austin American Statesman, Dallas Morning News, KVUE evening news, KEYE evening news, KXAN morning news, Daily Texan, Santa Fe New Mexican* (2009-2010)

Research featured in *Slate.com* (February 2009)

Radio interview, *She blinded me with science*, KVRX Austin (April 2008)

Interviewed for LA Times article, *To protect us all, vaccinate school kids* (November 2006)

Research featured in Wall Street Journal article, *If We Must Ration Vaccines for a Flu, Who Calls the Shots?* (October 2006)

Article describing ESI outreach lecture in The Daily Texan (April 2006)

Epidemiology research featured in Austin American Statesman, *Professor uses a new math to predict disease spread*, Front page of metro section (April 2006)

Paper on Genetic Potential (PLoS Computational Biology, 2005) receives coverage by EurekAlert.com (AAAS), Iran Daily, BrightSurf.com (August 2005)

Research featured in *Newsweek, MIT Technology Review, Technology Review 100, Austin American Statesman, National Review of Medicine, Die Zeit* (2004)

Television interview by Dan Robertson on KXAN 36 News (November 2003)

Research featured in UT banner article, *Predicting the Path of Infectious Diseases* (October 2003)

Paper on Baldwin Effect (JTB, 1999) featured by Kevin Laland in *Nature* book review as "the best theoretical analysis of the Baldwin Effect" (September 2003)

Research featured on *NPR The World, BBC Five Live, WIRED* (2003)

INVITED PRESENTATIONS

Speaker, Stanford University Biology Department (2025)

Speaker, Harvard School of Public Health (2025)

Speaker, Big Cities Health Coalition (2025)

Speaker, Gates Foundation (2024)

Speaker, Research Science Institute, MIT (2024)

Speaker, Boring Infectious Disease Grand Rounds Lecture, Emory University (2024)

Speaker, Roche ESWI Influenza Conference (2023)

Speaker, Epidemic Response Strategies Workshop, Pandemic Research for Preparedness and Resilience (2023)

Speaker, numerous COVID-19 meetings, US Centers for Disease Control and Prevention (CDC) (2020-2023)

Speaker, JASON Advisory Group Fall Meeting (2022)

Panelist, International Conference on Emerging Infectious Diseases (ICEID) (2022)

Keynote, Decision Analysis Society of INFORMS (2022)

Panelist, UT Health Communications Conference (2022)

Speaker, UT High School Research Initiative (2022)

Speaker, American College of Obstetricians and Gynecologists (ACOG) (2022)

Panelist, American Association of Health Care Journalists (2022)

Speaker, Johns Hopkins University (2022)

Speaker, Oden Institute (2022)

Speaker and Panelist, American Association for the Advancement of Science (AAAS) Annual Meeting (2022)

Panelist, Games and Learning Alliance (GALA) (2021)

Speaker, Council of State and Territorial Epidemiologists (CSTE) (2021)

Seminar, University of Texas Medical Branch, Infectious Diseases and Immunity Colloquium (2021)

Speaker, National Academies of Sciences, Engineering, and Medicine (NASEM) Webinar: Housing Instability and Health (2021)

Speaker, National Association of County and City Health Officials (NACCHO) Webinar: Preparing for the 2021-2022 Flu Season (2021)

Speaker, UT Austin Portugal Annual Conference (2021)

Speaker, Travis County Medical Society Town Hall (2020, 2021)

Seminar, University of Texas Medical Branch (2021)

Seminar, Research Experiences for Undergraduates Program, Santa Fe Institute (2021)

Moderator and Organizer, Panel: *How public health agencies can benefit from infectious disease modeling*, MIDAS Network Annual Meeting (2021)

Speaker, Hertz Foundation (2021)

Speaker, Margolis Center for Health Policy, Duke University (2021)

Speaker/Panelist, National Academies of Sciences 158th Annual Meeting, COVID-19 Symposium: Strategic Planning for Crises (2021)

Keynote speaker, 8th Annual Louisiana Conference on Computational Biology and Bioinformatics (2021)

Speaker and Panelist, Science of Herd Immunity, Stanford University (2021)

Keynote, Mathematics and Statistics Awareness Month, Texas State University (2021)

Seminar, London School of Hygiene & Tropical Medicine (2021)

Seminar, Penn State University (2021)

Seminar, University of Nebraska (2021)

Seminar, Emory University (2021)

Marden Lecture, University of Wisconsin, Milwaukee (2020)

Symposium Speaker, European Scientific Working Group on Influenza, Seventh Influenza Conference (2020)

Speaker, IEEE EMBS Grand Challenges Forum on COVID-19 (2020)

Speaker, Santa Fe Institute Virtual ACtioN and Board of Trustees Symposium – The Complexity of Crisis (2020)

Panelist, *Redefining Possible*, Dell Technologies World Conference (2020)

Featured speaker, special COVID-19 meeting, Texas Hospital Association (2020)

Speaker, TACCSTER 2020 (2020)

Public lecture, University Lecture Series, UT (2020)

Seminar, University of Idaho (2020)

Featured speaker, Headliners Club, Austin, Texas (2020)

Speaker, School Reopening Webinar, National Council on School Facilities & Cooperative Strategies (2020)

Speaker and panelist, Mathematical Models of Prediction and Control of Epidemics Conference Mathematical Sciences Research Institute (MSRI) at University of California, Berkeley (2020)

Featured speaker, Global TechTalk, Cirrus Logic, Inc. (2020)

Speaker, Special Called Meetings on COVID-19, Austin City Council (three meetings, 2020)

Speaker/panelist, COVID-19: Mitigating the Outbreak in Texas, The Academy of Medicine Engineering & Science of Texas (TAMEST) (2020)

Colloquium Speaker, Texas State University, Honors Summer Math Camp (Mathworks) (2020)

Speaker, National Academies of Sciences, Engineering, and Medicine (NASEM) Committee: Guidance for K-12 Education on Responding to COVID-19 (2020)

Speaker, US House of Representatives' Committee on Science, Space and Technology (2020)

Speaker, Time Machine 2020, Spark Cognition (2020)

Speaker, School of Public Health COVID-19 Webinar, Columbia University (2020)

Speaker, COVID-19 Showcase, HealthTech Austin (2020)

Speaker/panelist, Hacking Coronavirus Webinar, Center for Excellence in Education (2020)

Speaker, *COVID-19 What Happens Next* (2020)

Speaker/panelist, COVID-19 Modeling and Testing in Texas, The Academy of Medicine Engineering & Science of Texas (TAMEST) (2020)

Speaker, COVID-19 Session, Travis County Commissioners Court (2020)

Speaker, *Computing in Our New Normal*, University of Texas (2020)

Panelist, Harvard University 25th Reunion - COVID-19 Panel (2020)

Featured speaker, *In the Arena*, LBJ School, University of Texas (2020)

Speaker, Austin Healthcare Council (2020)

Speaker, US White House Coronavirus Task Force (2020)

Speaker, US White House Office of Science and Technology Policy (2020)

Seminar, Stanford University (2020)

Speaker, Flash Workshop - After the First Wave, Santa Fe Institute (2020)

Ulam Public Lecture Series, *Preventing the Next Pandemic*, Santa Fe Institute (2019)

Seminar, Dartmouth University (2019)

Moderator, CNS Cross-Cutting Conversations: Computational Health, UT (2019)

Speaker, Annual Meeting of the American Marketing Association (2019)

Seminar, ISGlobal: Barcelona Institute for Global Health (2018)

Speaker, UC-Berkeley Miller Institute Interdisciplinary Symposium (2017)

Seminar, ISGlobal: Barcelona Institute for Global Health (2017)

Seminar, Odum School of Ecology, University of Georgia (2017)

Speaker, Santa Fe Institute 2017 Influence, Complexity and Networks: New Views for Business, Politics, Innovation, and Growth, Long Center, Austin, Texas (2017)

Seminar, Ecology and Evolutionary Biology Department, University of California, Los Angeles (March 2016)

Speaker/Panelist, CDC Director's Public Health Grand Rounds (January 2016)

Speaker/Panelist, 2015 Society of Actuaries Health Meeting (June 2015)

Speaker, James S. McDonnell Foundation Symposium Honoring John T. Bruer (May 2015)

Speaker, Mathematical Science Research Institute, Board of Trustees Annual Meeting (November 2014)

Keynote, Santa Fe Institute, Breakfast with SFI Series at HomeAway (October 2014)

Seminar, Physics Nonlinear Dynamics Series, The University of Texas at Austin (October 2014)

Speaker, UT University Lecture Series (September 2014)

Keynote, Santa Fe Institute Workshop: Next Generation Surveillance for the Next Pandemic (May 2014)

Speaker, TedX Youth Conference, Austin, Texas (February 2014)

Keynote, Santa Fe Institute Workshop: Next Generation Surveillance for the Next Pandemic (May 2014)

Public Lecture, Wisconsin Institute for Discovery, University of Wisconsin, (December 2013)
   http://vimeo.com/84332584

Speaker, 2nd International Conference on Digital Disease Detection, San Francisco, CA (November 2013)

Speaker, Centers for Disease Control and Prevention, Digital Surveillance Meeting, Atlanta, GA (August 2013)

Televised Lecture, Bill Gates Dedication of Gates Dell Computer Science Hall, The University of Texas at Austin (March 2013) http://www.youtube.com/watch?feature=player_embedded&v=UOPWydeC6a0

Speaker and Panelist, Institute of Medicine Modeling Workshop, 2013 Public Health Preparedness Summit, Atlanta, GA (March 2013)

Morrison Institute Colloquium, Stanford University (February 2013)

Plenary, 2012 Annual meeting of the Society for Mathematical Biology Conference, Knoxville, Tennessee (July 2012)

Lecture, Texas Exes Alumni College (June 2012)

Centers for Disease Control and Prevention, Influenza Units, Atlanta, Georgia (May 2012)

Speaker, Santa Fe Institute 2012 Science Board and Board of Trustees Symposium (May 2012)

Speaker, Institute of Medicine (IOM) Preparedness Forum, Washington, DC (April 2012)

Ritchey Public Lecture, Weber State University Distinguished annual lecture for College of Sciences (February 2012)

Seminar, LBJ School, The University of Texas at Austin (February 2012)

Game Changers, The University of Texas at Austin, Public lecture televised on Longhorn Network (January 2012)

Seminar, Wireless Network & Communications Group, The University of Texas at Austin (September 2011)

Invited Address, Mathematical Association of America MathFest 2011, Kentucky (August 2011)

Symposium Presentation, Ecological Society of America Annual Meeting, Austin, Texas (August 2011)

Participant and presenter, Sci Foo Camp hosted by Nature, O'Reilly Media, and Google, Mountain View, California (August 2011)

Lecture, Texas Regional Collaborative 17th Annual Meeting for K-12 STEM Educators (June 2011)

Grand Rounds Presentation, Texas Department of State Health Services (DSHS) (May 2011)

Lecture, Harrington Foundation Symposium, Amarillo, Texas (April 2011)

Keynote Lecture, University of New Mexico Biology Research Day (March 2011)

Seminar, Trinity University (February 2011)

Lecture, City of Austin Pandemic Planning Group (February 2011)

Invited Lecture, INFORMS Annual Meeting, TutORials in Operations Research (November 2010)

Invited Symposium Lecture, I^2 Integration and Innovation Public Health Preparedness Symposium, Texas Department of State Health Services (July 2010)

Plenary Lecture, International Conference on Drug Development (February 2010)

Seminar, Operations Research Industrial Engineering, The University of Texas at Austin (February 2010)

Public Lecture, Santa Fe Institute Public Lecture Series, James A. Little Theater (January 2010)

Panelist, LBJ Center for Health and Social Policy, The University of Texas at Austin (December 2009)

Lecture, Santa Fe Institute Annual Business Network & Board of Trustees' Symposium (November 2009)

Public Lecture, Rice University (October 2009)

Dean's Advisory Council, The University of Texas at Austin (October 2009)

Seminar, University of Wisconsin-Milwaukee (August 2009)

Seminar, Biomedical Advanced Research & Development Authority, Washington DC (July 2009)

Conference speaker, MIDAS Network Meeting, Emory University (June 2009)

Seminar, Rice University (February 2009)

Seminar, Cornell University (October 2008)

Seminar, University of Pennsylvania (October 2008)

Conference speaker, National Security Agency (June 2008)

Seminar, University of Houston (April 2008)

Seminar, University of Wisconsin, Milwaukee (April 2008)

Goldschmidt Keynote Lecture, American Society for Microbiology Spring Meeting, Texas (March 2008)

Seminar, Emory University (March 2008)

Workshop speaker, Working Group on Efficient Wildlife Vaccination, National Center for Ecological Analysis and Synthesis (NCEAS) (March 2008)

Workshop speaker, Santa Fe Institute workshop on Models of Emergent Behavior in Complex Adaptive Systems (December 2007)

Seminar, Yale University (November 2007)

Carnegie Lecture, School of Journalism, University of Texas at Austin (November 2007)

Workshop speaker, NIH Models of Infectious Disease Agent Study (MIDAS) Workshop on Representation of Microbial Evolution in Epidemic Models (November 2007)

Conference lecture, Gordon Research Conference on Microbial Population Biology (July 2007)

Special lecture, University of Texas Chancellor's Salon Series (April 2007)

Plenary speaker, NSF Theoretical Biology Workshop (October 2006)

Invited Public Lecture, Cultural Life Program at Furman University (October 2006)

Symposium lecture, Ecology Society of America Annual Meeting, Symposium on ecological and evolutionary processes in complex networks (August 2006)

Seminar, Los Alamos National Laboratory (June 2006)

Seminar, University of Tokyo, Department of Pure and Applied Sciences (May 2006)

Symposium lecture, Frontiers in Dynamics: Physical and Biological Systems, 9th Tamura Symposium, Tokyo (May 2006)

Seminar, Texas State University, Department of Mathematics (April 2006)

Seminar, Lawrence Livermore National Labs, Los Alamos, New Mexico (April 2006)

Seminar, University of Michigan, Bioinformatics Program (March 2006)

Seminar, University of Maryland, Behavior, Evolution, Ecology & Systematics Department (March 2006)

Intelligence briefing, National Intelligence Council, Science and Technology Expert Partnership, Infectious Disease Modeling Conference (March 2006)

Seminar, Introduction to Mathematical Research Seminar, University of Texas (March 2006)

Workshop lecture, Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Epidemiology and Evolution of Influenza Workshop (January 2006)

Conference lecture, Special Session on Current Events, 2006 Joint Mathematics Meetings of the American Mathematics Society. This is a highly publicized session at the largest US mathematics meetings. Speakers

are invited personally by the President of the American Mathematics Society (AMS) to present recent advances in exciting mathematical fields. (January 2006)

Symposium lecture, Spread of Pathogens of Social Animals with Particular Reference to the Morbilliviruses, Penn State University (November 2005)

Keynote, Regional Finals, Siemens-Westinghouse Science and Math Competition (November 2005)

Seminar, Texas State University, Biology Department (November 2005)

Conference lecture, 3rd Annual Ecology & Evolution of Infectious Disease Conference, Colorado State University (May 2005)

Seminar, University of Minnesota, Ecology, Evolution, and Behavior Department (May 2005)

Seminar, University of Texas, Non-linear Dynamics Seminar, Department of Physics (April 2005)

Seminar, Introduction to Mathematical Research Seminar, University of Texas (April 2005)

Seminar, University of Texas, Planets and Life Seminar, Astronomy Department (February 2005)

Symposium lecture, Symposium on Network Science: Implications for Biology and Medicine, Peter Wall Institute for Advanced Studies, Vancouver, Canada (January 2005)

Seminar, University of Michigan, Center for the Study of Complex Systems (November 2004)

Panelist, University of Texas, Freshman Women in Science Seminar (October 2004)

Panelist, MIT Technology Review Emerging Technologies Conference (September 2004)

Seminar, Los Alamos National Labs, Los Alamos, New Mexico (May 2004)

Seminar, Introduction to Mathematical Research Seminar, University of Texas (April 2004)

Special lecture, Mathematical Sciences Research Institutes (MSRI), Annual Meeting of Academic Sponsors (March 2004)

Seminar, Brown University, Department of Ecology and Evolutionary Biology (February 2004)

Seminar, University of Texas Dean's Scholars Seminar (November 2003)

Lecture, Santa Fe Institute, Business Network & Board of Trustees Annual Meeting (November 2003)

Seminar, Texas Department of Health (October 2003)

Lecture, Gordon Research Conference on Evolutionary & Ecological Functional Genomics (August 2003)

Seminar, National Center for Genome Resources (NCGR) Santa Fe, New Mexico (May 2002)

Session chair, *Workshop on the Evolution and Measurement of Robustness in Organisms*, Santa Fe Institute, Organizer: Günter Wagner (April 2002)

Seminar, University of Arizona, Ecology and Evolutionary Biology Department (January 2002)

Conference lecture, *Modularity: Understanding the Development and Evolution of Complex Natural Systems*, Konrad Lorenz Institute for Evolution and Cognition Research, Austria (October 2000)

Seminar, Institute for Advanced Studies, Princeton, New Jersey (October 1999)

EDUCATIONAL OUTREACH

Regularly lecture at Austin-are K-12 schools and as guest speaker in various UT courses and programs (2003-)

Keynote, UT Best of Texas recruitment event for class of 2021 (2017)

MathWorks: Texas State Honors Summer Math Camp, Texas State University: Student research project advisor and guest lecturer (2006, 2007, 2009, 2011, 2012, 2017, 2020)

Lecture, UT Forum (March 2016)

Panelist, *CNS Discovery Dinner on Big Data* (2015)

Speaker, Undergraduate Lecture Series: https://ugs.utexas.edu/uls (2014)

Santa Fe Institute Short Course, Exploring Complex Networks (2013)

AJA Elementary School Science Fair, judge (2010-2014) and keynote speaker (2010, 2015)

Blue Knot Austin Tech Initiative, Outreach lecture (2009)

Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID), Taught short course on Network Theory in Infectious Diseases (2009)

Complex Systems Summer School, Santa Fe Institute, Lecture series (2002, 2007, 2009)

Saturday Morning Math Group, Interactive outreach lecture for junior high and high school students, University of Texas at Austin (April 2006)

University of Texas Environmental Science Institute, Hot Science – Cool Talks Outreach Lecture (April 2006)

Keynote Lecture, First Bytes computer science summer camp for high school girls, UT (2005)

Advisory Board, Cogito.org: Web Site for Exceptional Young Scientists and Mathematicians (2005-present)

Outreach Lecture, University of Texas LAMP: Learning Activities for Mature People (2004, 2007)

Crazy Science Extravaganza, UT: Developed an epidemiology learning activity for interactive elementary school science fair (2003, 2004)

Research Science Institute, M.I.T., Presented lecture series: "Mathematical Modeling in Evolution, Ecology and Epidemiology" (Summer 2002)

SERVICE

Member, Summer Institute in Statistics and Modeling in Infectious Diseases (SISMID) Advisory Committee (2024-)

Member, Stengl-Wyer Scholars Review Committee, UT (2024-2025)

Member and/or leader of several national boards, listed on page 1.

Founder and director, UT COVID-19 Modeling Consortium (2020-2023): Established interdisciplinary research group with dozens of faculty, postdocs, graduate students and undergraduates from UT and collaborating institutions, including Dell Medical School, the Texas Advanced Computing Center, Yale School of Public Health, Northwestern University, University of Idaho, Santa Fe Institute, and Los Alamos National Labs. As director, Meyers oversees myriad modeling efforts to provide COVID-19 situational awareness and decision support for authorities and communities nationwide, leads daily zoom calls for the entire consortium and core technical team, and has secured substantial grant and foundational funding to support the consortium.

Member, National Academies of Sciences, Engineering, and Medicine (NASEM) Response and Resilient Recovery Strategic Science Initiative (R3SSI) Strategy Group on COVID and Rental Evictions (2020-2021)

Member, Austin Area Executive COVID Task Force (2020-2023)

Member, COVID Task Force, St. Stephens Episcopal School (2020-2022)

Member, COVID Task Force, Austin Jewish Academy (2020-2022)

Ad hoc COVID policy consulting and modeling (2020-2021): US Centers for Disease Control and Prevention, White House Coronavirus Task Force, Office of Science and Technology Policy, The White House, Texas Education Agency, Texas COVID Task Force, Multiple school systems

Executive Committee of Steering Committee of NIGMS MIDAS Program (Chair 2014-2016; Member 2018-)

Advisory Board, Outbreak Science, a nonprofit facilitating science and data sharing during infectious disease outbreaks (2016-)

GRANT REVIEWING

Member of NIH Study Section: Infectious Diseases, Reproductive Health, Asthma and Pulmonary Conditions (IRAP/PRID) (2020-2024)

Advisory Board, McDonnell Foundation Postdoctoral Fellowships (2011-2021)

Ad Hoc Member of NIH Study Section: Infectious Disease, Reproductive Health, and Asthma/Pulmonary Conditions (IRAP) (June 2019)

NSF review panel for Evolutionary Genetics (October 2006)

NIH review panel for Biomedical Information Science and Technology Initiative (BISTI) (March 2004)
Ad Hoc Grant Reviewer for NIH, NSF, Mardsen Fund, MITACS (2002-present)

MEETING ORGANIZATION

NSF PIPP Workshops (2023) Organizer and speaker at three two-day conferences

UT COVID-19 Conference (2020) Organizer and Keynote Speaker of two-day conference (https://events.attend.com/f/1383792571)

Epidemics: International Conference on Infectious Disease Dynamics, Steering committee for international meeting (2008, 2009,2013)

Working groups: Quantitative Prediction and Control of Epidemics, Organized and directed six-person working group, Santa Fe Institute (February 2009)

Network Models of Biological and Social Contagion, Organized and directed a 25-person working group (with Michelle Girvan), Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), Rutgers, New Jersey (November 2008)

The Evolution of Gene Expression in Tissues, Organized and directed a 5-person working group (with Michael Lachmann), Santa Fe Institute (June 2006)

Network Robustness to Evolving Agents, Organized and directed an 8-person working group (with Tim Keitt), Santa Fe Institute (January 2005)

Evolvability and Robustness in Molecules and Microbes, Organized and directed 25-person international workshop (with Christopher Voigt and Frances Arnold), Santa Fe Institute (February 2002)

EDITORIAL & REFEREE ACTIVITIES

Associate Editor, *Infectious Disease Modeling* (2016-)

Faculty Member, Theoretical Ecology Section, *Faculty of 1000* (2009-)

Associate Editor, *Epidemics* (2009-)

Associate Editor, *PLoS Computational Biology* (2006-2013)

Interdisciplinary Perspectives on Infectious Diseases
> Associate Editor (2007-2011)
> Lead Editor, Special Issue on *Network Perspectives on Infectious Disease Dynamics* (2010)

Associate Editor, *Statistical Communications in Infectious Diseases* (2009-2012)

Associate Editor, *Evolution* (2008-2010)

Associate Editor, *Journal of Molecular Evolution* (2004-2008)

Guest Editor, *PLoS Medicine*, *PNAS* (2006-)

Referee for numerous journals including American Journal of Epidemiology, American Naturalist, Biology Letters, Biological Reviews, Biosystems, Ecology Letters, Evolution, Genetics, Journal Theoretical Biology, Mathematical Biosciences, Nature, Nature Physics, OIKOS, Physics Letters A, PLoS Biology, PLoS Computational Biology, PLoS Medicine, Proceedings B, Science (1999-present)

UNIVERSITY SERVICE

Co-Chair, President's Strategic Planning Initiative (2021-2024)

Co-Chair, President's Council for TEXAS Impact (2019-2020)

Director, NIH T32 Training Grant in Big Data for Biomedicine (2018-2020); Steering Committee (2016-2020)

Member, University Budget Council (2017-)

Team member, ASCN Systemic Change Institute (2019)

CNS Promotion & Tenure Committee (2015-16; 2016-17)

Elected Member, UT Faculty Council (2008-2010, 2015-2017) and UT Faculty Council Executive Committee (2015-2016)

Campus Conversation Participant & Faculty Professional Development Committee (2014-2015)

Director (2011-2014), Associate Director (2008-2010), Division of Statistics and Scientific Computation (SSC): Built and led new statistics department at UT. Hired ten new faculty, and introduced over 40 new courses, a new statistics Ph.D. program, two interdisciplinary undergraduate certificate programs and two graduate portfolio programs in statistics and scientific computation, a Graduate Student Fellows Program, a Distinguished Lecture Series, an Early Career Grant Development Program for junior faculty, a Summer Statistics Institute (annually since 2008), and full-time statistical consulting services.

Faculty Advisor, Undergraduate degree in Computational Biology (2008-2011)

Developed new degree plan in Computational Biology (2007-2008)

Advisory Committee, Institute for Cellular and Molecular Biology (2008-2011)

Faculty search committees: IB Faculty Search Committee (2015-2016), Committee chair, Director of Division of Statistics and Scientific Computation (2009-2010), Evolutionary and ecological genomics, Integrative Biology (2005-2006), Computational biology, Integrative Biology (2003-2004), Molecular evolution, Integrative Biology (2003-2004)

Faculty promotion committees: seven since 2009