

2006-2012 James S. McDonnell Foundation 1 220020114 (\$444,902) (PI: Galvani)
2006-2014 Notsew Orm Sands Foundation (\$375,000) (PI: Galvani)
2008-2014 Miriam Burnett Trust (\$500,000) (PI: Galvani)
2009-2011 UNICEF/UNDP/World Bank/WHO Programme for Research and
Training in Tropical Diseases (\$200,000) (PI on Yale subcontract:
Galvani; PI: Johnson Ouma)

Completed

2008-2010 Howard Hughes Medical Institute (\$30,000) (PI: Galvani)
2006-2008 MacMillan Award (\$10,000) (PI: Galvani)
2006-2007 John Simon Guggenheim Foundation (\$38,000) (PI: Galvani)
2006 Merck Research Laboratories (\$23,154) (PI: Galvani)
2002-2004 Miller Institute (\$45,000) (PI: Galvani)

Public health policy advice

Advised BARDA (Biomedical Advanced Research and Developmental Authority), CDC, ASPR (Office of Assistant Secretary for Preparedness and Response), US Department of Health and Human Services and British Columbia Centre for Disease Control with regard to influenza vaccination policies

Media exposure (interviews and coverage)

- Radio: *The World Today* on BBC radio 4. (International Program) April 5th & April 16th, 2003, NPR Aug 21, 2009
- TV: CNBC. April 3rd, 2003
- Print (April 2003 – October 2009): *Economist, Newsweek (International Edition), Wall Street Journal, San Francisco Chronicle, LA Times, USA Today, Newsday, National Geographic, Scientific American, The Daily Californian, Baltimore Sun, Washington Post, Harpers, Esquire, Contra Costa Times, Sacramento Bee, Medical Post (Canada), The Times (London), The Times of India, The Lancet, Publico (Portuguese newspaper, first page), Wired*

Publications

94. Durham, D.P., Poolman, E.M., Ibuka, Y., Townsend, J.P. & **Galvani, A.P.** (2012) Reevaluation of epidemiological data demonstrates that it is consistent with cross-immunity among HPV types. *Journal of Infectious Diseases* In press.
93. Chapman, G.B., Li, M., Vietri, J., Ibuka, Y., Thomas D., Yoon, H. & **Galvani, A.P.** (2012) Using game theory to examine incentives in influenza vaccination behavior. *Psychological Science* In press.
92. Ndeffo Mbah, M.L., Jingzhou, L., Bauch, C.T., Tekel, Y., Medlock, J., Meyers, L.A. & **Galvani, A.P.** (2012) The impact of imitation on vaccination behaviour in social contact networks. *PLoS Computational Biology* 8(4):e1002469.

91. Shim, E., Chapman, G.B., Townsend, J.P. & **Galvani, A.P.** (2012) The influence of altruism on influenza vaccination decisions. *Journal of Royal Society Interface* In press.
90. Hladish, T.J., Melamud, E., Barrera, L.A., **Galvani, A.P.** & Meyers, L.A. (2012) EpiFire: An open source C++ library and application for contact network epidemiology. *BMC Bioinformatics* 13:76.
89. Araz, O., Damien, P., Paltiel, D., Burke, S., Gejin, B., **Galvani, A.P.** & Meyers, L.A. (2012) Simulating school closure policies for cost-effective pandemic decision making. *BMC Public Health* In press.
88. Araz, O., **Galvani, A.P.** & Meyers, L.A. (2012) Geographic prioritization of distributing pandemic influenza vaccines. *Health Care Management Science* In press.
87. Luz, P.M., Vanni, T., Medlock, J., Paltiel, A. D., **Galvani, A.P.** (2011) Dengue vector control strategies in an urban setting: an economic modeling assessment. *The Lancet* 377:1673-1680.
86. Ibuka, Y., Paltiel, A. D., **Galvani, A.P.** (2011) Impact of program scale and indirect effects on the cost-effectiveness of vaccination programs. *Medical Decision Making* In press.
85. Atkins, K.E., Shim, E., T., Pitzer, V.E. and **Galvani, A.P.** (2012) The impact of rotavirus vaccination on epidemiological dynamics in England and Wales. *Vaccine* 30(3):552-564.
84. Tully, S.P., Anonychuk, A.M., T., Sanchez, D.M., **Galvani, A.P.** and Bauch, C.T. (2012) Time for change? An economic evaluation of integrated cervical screening and HPV immunization programs in Canada. *Vaccine* 30:425-435.
83. Alam, U., Medlock, J., Brelsfoard, C., Pais, R., Lohs, C., Balmand, S., Carnogursky, J., Heddi, A., Takac, P., **Galvani, A.P.** and Aksoy, S. (2011) *Wolbachia* symbiont infections induce strong cytoplasmic incompatibility in the tsetse fly *Glossina morsitans*. *PLoS Pathogens* 7(12):e1002415.
82. Tsao, K., Fish, D., **Galvani, A.P.** (2011) Predicted outcomes of vaccinating wildlife to reduce human risk of Lyme disease. *Vector-Borne and Zoonotic Diseases* In press.
81. Vietri, J.T., Li, M., Chapman, G.B. & **Galvani, A.P.** (2011) Vaccinating to help ourselves and others. *Medical Decision Making*. In press
80. Simpson, J.E., Hurtado, P.J., Medlock, J., Molaei, G., Andreadis, T.G., **Galvani, A.P.**, Diuk-Wasser, M.A. (2011) Vector host-feeding preferences drive transmission of multi-host pathogens: West Nile Virus as a model system. *Proceedings of the Royal Society London* 279(1730):925-933.

79. Wells, C.R., Tchuenche, J.M., Meyers, L.A., **Galvani, A.P.** & C.T. Bauch (2011) The impact of imitation processes on the effectiveness of ring vaccination. *Bulletin of Mathematical Biology* 73(11):2748-2772.
78. Liu, J., Kochin, B.F., Tekle, Y.I., **Galvani, A.P.** (2012) Epidemiological game theoretic dynamics of chickenpox vaccination in the US and Israel *J. R. Soc. Interface* 9(66):68-76.
77. Vietri, J.T., Chapman, G.B., Li, M. & **Galvani, A.P.** (2011) Preferences for HPV vaccination in parent-child dyads. *Preventative Medicine* 52(5):405-406.
76. Reluga, T.C., **Galvani, A.P.** (2011) A general approach for population games with application to vaccination. *Mathematical Biosciences* 230(2):67-78.
75. Volz, E.M., Miller, J.C., **Galvani, A.P.** & Meyers, L.A. (2011) Effects of heterogeneous and clustered contact patterns on infectious disease dynamics. *PLoS Computational Biology* 7(6):e1002042.
74. Li, M., Chapman, G.B., Ibuka, Y., Meyers, L.A. & **Galvani, A.P.** (2011) Who got vaccinated against H1N1 pandemic flu? – A longitudinal study. *Psychology and Health*. In press
73. Cornforth, D.M., Reluga, T.C., Eunha, S., Bauch, C., **Galvani, A.P.** & Meyers, LA (2010) Erratic flu vaccination emerges from short-sighted behaviour in contact networks. *PLoS Computational Biology* 7(1):e1001062.
72. Bauch, C., Li, M, Chapman, G.B. & **Galvani, A.P.** (2010) Adherence to cervical screening in the era of human papillomavirus vaccination: how low is too low? *Lancet Infectious Diseases* 10:133-137.
71. Li, M., Vietri, J., **Galvani, A.P.** & Chapman, G.B. (2010) How do people value life? *Psychological Science* 21:163-167.
70. Luz, P.M., Struchiner, C.J. & **Galvani, A.P.** (2010) Modeling transmission dynamics and control of vector-borne neglected tropical diseases. *PLoS Neglected Tropical Diseases* 4(10): e761.
69. Davis, S., Aksoy, S., & **Galvani, A.P.** (2010). A global sensitivity analysis for African sleeping sickness. *Parasitology* 138(4):516-526.
68. Shim, E., Meyers, L.A., & **Galvani, A.P.** (2010). Optimal H1N1 vaccination strategies based on self-interest versus group interest. *BMC Public Health* 11(Suppl 1):S4.
67. Ibuka, Y., Chapman, GB, Meyers, LA, Li, M & **Galvani, A.P.** (2010). The dynamics of risk perceptions and precautionary behavior in response to H1N1 pandemic influenza. *BMC Infectious Diseases* 10:296.
66. Medlock, J. & **Galvani, A.P.** (2009) Protecting the herd from H1N1. *Science* 326: 934. (Comment)

65. Medlock, J., Meyers, L.A., & **Galvani, A.P.** (2009). Optimizing allocation for a delayed influenza vaccination campaign. *PLoS Currents Influenza*. December 11. RRN1134.
64. Medlock, J. & **Galvani, A.P.** (2009) Optimizing influenza vaccine distribution. *Science* 325: 1705-1708.
63. Shim, E., Chapman, G.B. & **Galvani, A.P.** (2009) Decision making regarding antiviral intervention during an influenza pandemic. *Medical Decision Making* 30: E64-81.
62. Shim, E., Hampson, K., Cleaveland, S. & **Galvani, A.P.** (2009) Evaluating the cost-effectiveness of rabies post-exposure prophylaxis: a case study in Tanzania. *Vaccine* 27: 7167-7172.
61. Matser, A., Hartemink, N., Heesterbeek, H., **Galvani, A.P.** & Davis, S. (2009) Elasticity analysis in epidemiology: An application to tick-borne infections. *Ecology Letters* 12: 1298-1305.
60. Basu, S., Friedland, G.H., Medlock, J., Andrews, J.R., Shah, N.S., Gandhi, N.R., Moll, A., Moodley, P., Strum, A.W. & **Galvani, A.P.** (2009) Averting epidemics of extensively drug-resistant tuberculosis. *Proceedings of the National Academy of Sciences, USA* 106: 7672-7677.
59. Shim, E. & **Galvani, A.P.** (2009) Impact of transmission dynamics on the cost-effectiveness of rotavirus vaccination. *Vaccine* 27: 4025-4030.
58. Medlock, J., Luz, P.M., Struchiner, C.J. & **Galvani, A.P.** (2009) The impact of transgenic mosquitoes on dengue virulence to humans and to mosquitoes. *American Naturalist* 174: 565-577.
57. Shim, E., Kochin, B. & **Galvani, A.P.** (2009) Insights from epidemiological game theory into gender-specific vaccination against rubella. *Mathematical Biosciences and Engineering* 6: 839-854.
56. Shim, E. & **Galvani, A.P.** (2009) Evolutionary repercussions of avian culling on host resistance and influenza virulence. *PLoS ONE* 4: e5503.
55. Orenstein, E.W., Basu, S., Shah, S.N., Andrews, J.R., Friedland, G.H., Moll, A.P., Gandhi, N.R. & **Galvani, A.P.** (2009) Treatment outcomes among patients with multidrug-resistant tuberculosis: systematic review and meta-analysis. *Lancet Infectious Diseases* 9: 153-161.
54. Basu, S., & **Galvani, A.P.** (2009) The evolution of tuberculosis virulence. *Bulletin of Mathematical Biology* 71:1073-1088.
53. Reluga, T.C., Medlock, J. & **Galvani, A.P.** (2009) The discounted reproductive number for epidemiology. *Mathematical Biosciences and Engineering* 6: 377-393.
52. Basu, S., Chapman, G.B. & **Galvani, A.P.** (2008) Integrating epidemiology, psychology and economics to achieve HPV vaccination targets. *Proceedings of the National Academy of Sciences, USA* 105: 19018-19023.
51. Basu, S., Orenstein, E. & **Galvani, A.P.** (2008) The impact of immune dynamics on drug-resistant tuberculosis epidemics. *Journal of Infectious Diseases* 198: 1502-1513.

50. Luz, P., Mendes, B., Codeco, C., Struchiner, C. & **Galvani, A.P.** (2008) Time series analysis of dengue incidence in Rio de Janeiro, Brazil. *American Journal of Tropical Medicine & Hygiene* 79: 933-939.
49. Basu, S., Maru, D., Poolman & **Galvani, A.P.** (2008) Modeling primary and secondary tuberculosis preventive therapy in antiretroviral treatment clinics. *The International Journal of Tuberculosis and Lung Disease* 13: 652-658.
48. Luz, P., Grinsztejin, B. & **Galvani, A.P.** (2008) Disability adjusted life years lost to dengue in Brazil. *Tropical Medicine & International Health* 14: 237-246.
47. Luz, P., Codeco, C.T., Medlock, J., Struchiner, C.T., Valle, D. & **Galvani, A.P.** (2008) Impact of insecticide interventions on the abundance and resistance profile of *Aedes aegypti*. *Epidemiology and Infection* 12: 1-13.
46. Basu, S. & **Galvani, A.P.** (2008) The transmission dynamics of extensively drug-resistant tuberculosis in South Africa: an operations research and mathematical modeling approach. *Epidemiology and Infection* 136: 1585-1598.
45. Hu, C, Rio, R.V.M., Medlock, J., Haines, L.R., Nayduch, D., Savage, A.F., Guz, N., Attardo, G.M., Pearson, T.W., **Galvani, A.P.** & Aksoy, S. (2008) Infections with immunogenic trypanosomes reduce tsetse reproductive fitness. *PLoS Neglected Diseases* 2: e192.
44. Poolman, E.M, Elbasha, E. & **Galvani, A.P.** (2008) Vaccination and the evolutionary ecology of Human Papillomavirus. *Vaccine* 18: C25-30.
43. Troy, D. **Galvani, A.P.**, Struchiner, C. & Gumel, A. (2008) The evolutionary consequences of vaccination. *Vaccine* 18: C1-3.
42. **Galvani, A.P.**, Reluga, T.C. & Chapman, G.B. (2007) Long-standing influenza vaccination policy is in accord with individual self-interest but not with the utilitarian optimum. *Proceedings of the National Academy of Sciences, USA* 104: 5692-5697.
41. Basu, S., Andrews, J., Poolman, E.M., Gandhi, N.R., Shah, N.S., Moll, A., **Galvani, A.P.** & Friedland, G.H. (2007) The epidemic-level impact of preventing nosocomial transmission of extensively drug-resistant tuberculosis in rural South African district hospitals. *The Lancet* 370: 1500-1507
40. Basu, S. & **Galvani, A.P.** (2007) Extensively drug-resistant tuberculosis in South Africa. *The Lancet* 369: 272-273.
39. Basu, S. & **Galvani, A.P.** (2007) Multiparameter calibration of a natural history model of cervical cancer. *American Journal of Epidemiology* 166: 983-984.
38. Codeco, C., Luz, P.M., Coelho, F. **Galvani, A.P.** & Struchiner, C. (2007) Vaccinating in disease-free regions: a vaccine model with application to yellow fever. *Journal of the Royal Society Interface* 4: 1119-1125.
37. Reluga, T.C., Meza, R., Walton, D.B. & **Galvani, A.P.** (2007) Reservoir Interactions and Disease Emergence. *Theoretical Population Biology* 72: 400-408.
36. Reluga, T.C., Medlock, J., Poolman, E.M. & **Galvani, A.P.** (2007) Optimal timing of disease transmission in an age-structured population. *Bulletin of Mathematical Biology* 69: 2711-2722.
35. Poolman, E.M & **Galvani, A.P.** (2007) Evaluating candidate agents of selective pressure for cystic fibrosis. *Journal of the Royal Society Interface* 4: 91-98.

34. Rainer et al. (Galvani, A.P. 4th of 15 authors) (2007) Discriminating features of SARS from other severe viral respiratory tract infections. *European Journal of Clinical Microbiology and Infectious Diseases* 26: 121-129.
33. **Galvani, A.P.**, Medlock, J. & Chapman, G.B. (2006) The ethics of influenza vaccination. *Science* 313: 758-760.
32. Poolman, E.M. & **Galvani, A.P.** (2006) Modeling targeted ivermectin treatment for controlling river blindness. *American Journal of Tropical Medicine and Hygiene* 75: 921-927.
31. Reluga, T.C., Medlock, J. & **Galvani, A.P.** (2006) A model of spatial epidemic spread when individuals move within overlapping home ranges. *Bulletin of Mathematical Biology* 68: 401-416.
30. Reluga, T.C., Bauch, C. & **Galvani, A.P.** (2006) Evolving public perceptions and stability in vaccine uptake. *Mathematical Biosciences* 204: 185-198.
29. **Galvani, A.P.** & May, R.M. (2005) Dimensions of superspreading. *Nature* 438: 293-295.
28. **Galvani, A.P.** (2005) The role of mutation accumulation in HIV progression. *Proceedings of the Royal Society London* 272: 1851-1858.
27. Novembre, J.P., **Galvani, A.P.** & Slatkin, M. (2005) The geographic spread of the *CCR5-Δ32* HIV-resistance allele. *PLoS Biology* 3: e339.
Commentary on this article by Gaggiotti (2006) *Heredity*
26. Elbasha, E. & **Galvani, A.P.** (2005) Vaccinating against multiple HPV types. *Mathematical Biosciences* 197: 88-117. (Journal's most downloaded article in 2005 http://top25.sciencedirect.com/?journal_id=00255564)
25. Bauch, C.T., Lloyd-Smith, J.O., Coffee, M & **Galvani, A.P.** (2005) Dynamically modelling SARS and respiratory EIDs: past, present and future. *Epidemiology* 16: 791-801.
24. Charleston, M. & **Galvani, A.P.** (2006) A cophylogenetic perspective of host-pathogen evolution. In *Disease evolution: Models, concepts and data analyses* (eds. Z. Feng, U. Dieckmann & S. Levin) American Mathematical Society.
23. **Galvani, A.P.** & Novembre, J.P. (2005) The evolutionary history of the *CCR5-Δ32* HIV-resistance mutation. *Microbes and Infection* 7: 301-308.
22. **Galvani, A.P.** (2005) Age-dependent epidemiological patterns and strain diversity in helminth parasites. *Journal of Parasitology* 91: 24-30.
21. Porco, T.C., Lloyd-Smith, J.O., Gross, K.L. & **Galvani, A.P.** (2005) The effect of treatment on pathogen virulence. *Journal of Theoretical Biology* 233: 91-102
20. **Galvani, A.P.** (2004) Emerging infections: What have we learned from SARS? *Emerging Infectious Diseases* 10: 1351-1352.
19. **Galvani, A.P.** & Slatkin, M. (2004) Intense selection in an age-structured population. *Proceedings of the Royal Society London, Series B* 271: 171-176.
18. **Galvani, A.P.** & Slatkin, M. (2003) Evaluating plague and smallpox as historical selective pressures for the *CCR5-Δ32* HIV-resistance allele. *Proceedings of the National Academy of Sciences, USA* 100: 15276-15279.

Commentary on this article by Stumpf & Wilkinson-Herbots (2004) *Trends Ecology & Evolution*

17. Ferguson, N.M., **Galvani, A.P.** & Bush, R.M. (2003) Ecological and immunological determinants of influenza evolution. *Nature* 422: 428-433.
16. **Galvani, A.P.** (2003) Epidemiology meets evolutionary ecology. *Trends in Ecology & Evolution* 18: 132-139. (Cover article)
15. **Galvani, A.P.**, Lei, X. & Jewell, N.P. (2003) Severe acute respiratory syndrome: temporal stability and geographic variation in death rates and doubling times. *Emerging Infectious Diseases* 9: 991-994.
14. Lloyd-Smith, J.O., **Galvani, A.P.** & Getz, W. (2003) Curtailing SARS transmission within a community and its hospital. *Proceedings of the Royal Society London, Series B* 270: 1979-1989. (Cover article)
13. Bauch, C.T., **Galvani, A.P.** & Earn, D.J.D. (2003) Smallpox vaccination: insights from game theory. *Proceedings of the National Academy of Sciences, USA* 100: 10564-10567.
12. **Galvani, A.P.** (2003) Immunity, antigenic diversity and the aggregation of helminth parasites. *Journal of Parasitology* 89: 232-241.
11. Ferguson, N.M. & **Galvani, A.P.** (2003) The impact of antigenic variation on pathogen population structure, fitness and dynamics. p. 403-433. In *Antigenic Variation* (eds. A. Carig & A. Scherf) Harcourt Publishers.
10. **Galvani, A.P.**, Coleman, R.M. & Ferguson, N.M. (2003) The evolution of sex in parasite populations. *Proceedings of the Royal Society London, Series B* 270: 19-28.
9. **Galvani, A.P.** (2003) Immunology and epidemiology of infectious disease. *The Quarterly Review of Biology* 78: 130-131. (Book review)
8. Bauch, C.T. & **Galvani, A.P.** (2003) Using network models to approximate spatial point-process models. *Mathematical Biosciences* 184: 101-114.
7. **Galvani, A.P.**, Coleman, R.M. & Ferguson, N.M. (2001) Antigenic diversity and the selective value of sex in parasites. *Special issue in tribute to W.D. Hamilton in Annales Zoologici Fennici* 38: 305-314.
6. Gupta, S. & **Galvani, A.P.** (1999) The effects of host heterogeneity on pathogen population structure. *Philosophical Transactions of the Royal Society* 354: 711-719.
5. **Galvani, A.P.** & Gupta, S. (1998) The effects of mating probability on the population genetics of nematodes. *Journal of Helminthology* 72: 295-300.
4. **Galvani, A.P.** & Johnstone, R. (1998) Sperm allocation in an uncertain world. *Behavioural Ecology and Sociobiology* 44: 161-168.
3. **Galvani, A.P.** & Coleman, R.M. (1998) Do parental convict cichlids of different sizes value the same brood number equally? *Animal Behaviour* 56: 541-546.
2. Coleman R.M. & **Galvani, A.P.** (1998) Egg size determines offspring size in Neotropical cichlid fishes. *Copeia* 1998: 209-213.
1. **Galvani, A.P.** & Coleman, R.M. (1996) Parental size and perceived brood value: Are all eggs created equal? *Proceedings of the International Congress on the Biology of Fishes* 1996: 67-72.

Training and teaching

- Postdoctoral advisor to Dr. Tim Reluga (now Assistant Professor at Penn State), Dr. Jan Medlock (now Assistant Professor at Oregon State), Dr. Eunha Shim (now Assistant Professor at U Pitt), Dr Yonas Tekle (now Assistant Professor at Spelman), Dr Yoko Ibuka (now Assistant Professor at Hitotsubashi University, Tokyo), Dr Jingzhou Li, and Dr. Eric Poolman (now Assistant Professor University of Oregon), Dr Katie Atkins, Dr David Durham, Dr Martial Dr Kristina Talbert-Slagle, Dr Martial Ndefo-Mbah
- Doctoral advisor to Dr Sanjay Basu and Dr Paula Luz, both of whom passed their qualifying exam with distinction. Currently, doctoral advisor to Meagan Fitzpatrick, Jennifer Gilbert and Katherine Skene.
- Masters advisor to David Thomas (now at Partner's in Health), who received Dean's Prize for best thesis.
- Undergraduate thesis advisor to Evan Orenstein (now pursuing a MD at Emory) and Beth Kochin (now PhD candidate at Emory), who won the William R. Belknap Prize for her thesis
- Studies in Evolutionary Medicine (EMD 695a,b).
- Modeling the epidemiology and evolution of infectious diseases (EMD 565).
- Seminar in epidemiology of microbial diseases (EMD 525).
- Lab and Field Studies in Infectious Disease (EMD 525).
- Undergraduate independent research course (EEB 475)
- Lectured in 'Modeling Infectious Diseases' course at Department of Epidemiology & Public Health, Yale University School of Medicine. 2004.
- Primary instructor of graduate course 'Evolution of infectious diseases', UC Berkeley. 2003.
- Invited lectures in 'Epidemiology and Control of Infectious Diseases' course at School of Public Health, UC Berkeley. 2003 & 2004.

Organizational activities

- Organizer of Infectious Disease Modeling Workshop at the University of KwaZulu Natal, Durban. July 6-8, 2009
- Scientific Advisory Board Member of Workshop 'Mitigating the spread of influenza: lessons learned from past outbreaks, Arizona State University, Tempe. June 25-28, 2009
- Organizer of Economic Epidemiology Advanced Study Institute, Makerere University, Uganda, 20 July-1 August, 2009

- Member of NIH Microbiology & Infectious Disease Research Committee to review K applications
- Organizer of NSF-funded DIMACS meeting ‘Addressing social conflict in public health and environmental policy modeling’ at Rutgers University, October 15-17, 2007.
- Organizer of NSF-funded DIMACS meeting ‘Evolutionary Considerations in Vaccine Use’ at Rutgers University, June 27-30, 2005.

Invited presentations

- US Department of Health and Human Services. August 18, 2009
- Health Law Policy and Bioethics Seminar, Harvard Law School. April 29, 2009
- HPA, Epidemiology and Public Health, Yale University. November 17, 2008
- CBB, Yale University. April 3, 2008
- University of Austin, Texas. March 6, 2008
- YIBS, Yale University. April 11, 2008
- Behavioral Epidemiology Workshop, University of Washington, Seattle. June 20, 2006
- Award talk. Fairbanks, Alaska. Evolution meetings. June 13, 2005
- SAMSI, Research Triangle Park, Jan 31, 2005
- Yale University, Medical School, Division of Epidemiology of Microbial Diseases, Feb 18, 2004
- University of Maryland, College Park, Biology Department. Jan 29, 2004.
- University of Wisconsin, Madison, Department of Zoology. Dec 11, 2003
- University of British Columbia, Department of Zoology. Dec 2, 2003
- DIMACS meeting on Genetics and Evolution of Pathogens, Rutgers University. Nov 24, 2003
- University College London, Department of Biology. May 15, 2003
- University of McMaster, Department of Mathematics. March 30th, 2001.
- Workshop on Evolutionary Epidemiology of Strain Structure in Pathogen Populations, University of Warwick. Jan 15th-17th, 2001.
- University of Toronto, Department of Zoology. March 21st, 2001.
- W.D. Hamilton Symposium, University of California at Berkeley. Oct 19th-21st, 2000.
- Harvard School of Public Health. Oct 26th, 2000.

Editorial and review activities

Editorial Board: *PLoS ONE* (2008-current), *PLoS Neglected Tropical Diseases* (2009-current), *Scientific Reports* (2011-current)

Institute of Medicine report on the DoD-GEIS Influenza Programs: Strengthening Global Influenza Surveillance and Response

Journals: *American Journal of Epidemiology*, *Bulletin of Mathematical Biology*, *Emerging Infectious Diseases*, *Evolution*, *Journal of Infectious Diseases*, *Journal of*

Parasitology, Journal of Virology, Mathematical Biosciences, Mathematical Biosciences and Engineering, Nature, Philosophical Transactions of the Royal Society, PLoS Biology, PLoS Medicine, PLoS Computational Biology, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society, Science, SIAM J. Applied Mathematics, Theoretical Population Biology, Trends in Ecology & Evolution, Trends in Genetics, Trends in Parasitology

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