

Pejman Rohani

Curriculum Vita

Faculty Positions

Professor
Odum School of Ecology & Department of Infectious Diseases
University of Georgia

Jun 2015 - Present

Professor
Department of Ecology & Evolutionary Biology, Center for the Study of Complex Systems, Department of Epidemiology
University of Michigan

Sept 2009 - Jun 2015

Professor
Odum School of Ecology
University of Georgia

Aug 2008 - Sept 2009

Associate Professor
Odum School of Ecology
University of Georgia

Aug 2005 - Aug 2008

Assistant Professor
Odum School of Ecology
University of Georgia

Aug 2001 - Aug 2005

Leadership positions

Associate Dean for Academic Affairs
Odum School of Ecology
University of Georgia

Jan 2022 - Present

Deputy Director
Center for Influenza Disease & Emergence Research
University of Georgia

Apr 2021 - Present

Leadership Training

SEC Academic Leadership Development Program
University of Georgia

2024

Advanced Leadership Program
University of Georgia

2023

New Department Head Training
University of Georgia

2020

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Education

1995 **Doctor of Philosophy**
Biology – *Imperial College, University of London*

1991 **Bachelor of Science**
Mathematics – *University of Manchester*

Awards & Recognition

2025 **Lamar Dodd Creative Research Award**
University of Georgia

2021 **Fellow**
Ecological Society of America

2021 **Charter Lecture**
University of Georgia

2020 **Regents' Professor**
University System of Georgia

2019 **Professorship**
Georgia Athletic Association

2018 **Fellow**
American Association for the Advancement of Science

2015 **President's Extraordinary Research Faculty**
University of Georgia

2014 **Collegiate Professorship**
University of Michigan

2007 **Fellow**
John Simon Guggenheim Memorial Foundation

2003 **New Investigator Award**
Ellison Medical Foundation

1999 **University Research Fellow**
Royal Society, UK

1999 **Advanced Research Fellow**
Natural Environment Research Council, UK

1996 **Research Fellow**
Natural Environment Research Council, UK

Grant Funding

In Progress

Jan 2024 – Jul 2025
From bench to bed net: Developing novel antimalarial inhibitors for killing Plasmodium in the malaria mosquito
UGA Interdisciplinary Seed Grant, \$150K
Paton, Joyner, Robani

Oct 2022 – Oct 2027
Pathogen Genomics Centers of Excellence
CDC, \$18m
UGA PI: *Babl; Co-I Robani*

Aug 2022 – Sep 2026
Computational Methods for Influenza Forecasting
NIH CEIRR Option, \$531K
Robani & Drake

Jun 2022 – May 2026
Mass gatherings as natural experiments: travel pulses reveal determinants of SARS-CoV-2 epidemic synchrony and predictability in U.S. states and counties
NIH, \$430K
Robani, Brett & Andris

Apr 2021 – Apr 2028
Center for Influenza Disease and Emergence Research
NIH CEIRR, \$7m + \$12.6m in Options
Tompkins & Robani

Completed

Jul 2022 – Jan 2025
Heterogeneous Model Integration for Infectious Disease Intelligence
NSF PIPP Phase I, \$1m
Drake, Robani, Epureanu, Han, Nowak & Babl

Jul 2021 – Dec 2024
Using Validated Transmission Models to Inform Pertussis Vaccine Development and Policy
Sanofi, \$195K
Robani

Sep 2021 – Sep 2023
A genomics-based system to predict the seasonal influenza virus evolution and epidemic dominance
Centers for Disease Control & Prevention, \$732K
Babl, Robani, Drake & De Groot

Jun 2020 – Jun 2023
High Resolution Detection and Modeling of Salmonella Population Dynamics in Poultry
USDA, \$478K
Sbharat, Robani & Nichols

Grant Funding

Oct 2018 – Sep 2023
Coupled Macroparasite-Microparasite Interactions: Ecological and Evolutionary Consequences of Coinfection
National Institutes of Health, \$2m
Ezenwa, Anderson, Jolles, Robani

Oct 2017 – Sep 2023
Vaccine hesitancy and erosion of herd immunity: harnessing big data to forecast disease re-emergence
National Institutes of Health, \$2.19m; PI: Bansal (Georgetown); UGA subcontract: \$ 610K (+\$100K supplement)
Robani

Oct 2017 – Jun 2022
Southern Africa Mother Infant Pertussis Study - Nasopharyngeal Carriage (SAMIPS-NPC)
National Institutes of Health, \$2m; PI: Gill (Boston U); UGA subcontract: \$306K
Robani

Sep 2019 – Sep 2021
Integrated System to forecast dominant influenza virus in seasonal epidemics
Centers for Disease Control & Prevention, \$660K
Babl, Robani & Drake

May 2017 – May 2019
Defining the contribution of the microbiome in respiratory pathogen infection and transmission
UGA President's Interdisciplinary Seed Grant Program, \$100K
Tompkins et al.

Aug 2014 – Aug 2020
X-raying high-dimensional infectious disease data using statistical inference
National Institutes of Health MIDAS Center of Excellence, \$12.5m; PI: Halloran (Fred Hutchinson); UGA subcontract: \$1m
Robani

Aug 2014 – Aug 2020
Forecasting tipping points in emerging and re-emerging infectious diseases
National Institutes of Health, \$2.75m; Subcontract: \$400K
Drake, Robani, Park, Ferrari, Epurneau

Sept 2016 – Aug 2019
Glycoprotein charge and avian influenza virus evolution
National Institutes of Health, \$393K
Tompkins & Robani

Grant Funding

May 2012 – May 2019
Integrating immunology, epidemiology, and evolution to understand and control pertussis transmission
National Institutes of Health, \$1.7m
Robani, King

Sep 2013 – Sep 2014
Influenza Infection & *Streptococcal pneumoniae* Carriage
Pfizer pharmaceuticals, \$100K
Foxman, Aiello, Dawid, Robani

Aug 2010 – Aug 2013
Demographic and behavioral responses to resource shifts and the transmission of rabies in vampire bats
National Science Foundation, \$579,908
Altizer, Robani, Rupprecht

Aug 2009 – July 2013
Population Ecology of Avian Influenza viruses
National Science Foundation, \$498,200
Robani, Drake, Stallknecht

Aug 2008 – Aug 2013
Evolutionary epidemiology of multi-transmission pathogens in multi-host networks
James S. McDonnell Foundation, \$449,527
Drake, Robani

Aug 2008 – Aug 2012
Research and Policy for Infectious Disease Dynamics (RAPIDD) Program
Interagency Personnel Agreement. National Institutes of Health, Fogarty International Center and Department of Homeland Security, Science & Technology Directorate

Jan 2008 – Apr 2013
Evaluating Candidate Vaccine Technologies Using Computational Models
Bill & Melinda Gates Foundation, \$215,000
Robani

Oct 2010 – Oct 2011
Host response, viral infection and bacterial pneumonia
Pfizer pharmaceuticals, \$100K
Foxman, Robani

Grant Funding

Aug 2006 – Oct 2010
Avian Influenza viruses in the environment: what is the probability of human contact and transmission?
Centers for Disease Control & Prevention, \$2,624,965
Stallknecht, Robani, Mead, Cole

Aug 2003 – Aug 2008
New Investigator Award in Global Infectious Diseases
Ellison Medical Foundation, \$200K
Robani

Oct 2004 – Oct 2007
The Ecology of Disease Interference
National Science Foundation, \$357K
Robani

May 2004 – Apr 2007
Disease Interference and Pathogen Communities
National Institutes of Health, \$252K
Robani

Jun 2004 – Aug 2007
On long-term consequences of selfish behavior: a game theoretic approach to host-pathogen co-evolution
National Science Foundation, \$100K
Robani, Keenan

Dec 2003 – Dec 2007
The impact of environmental variation on host-parasite ecology and evolution
Natural Environment Research Council, \$580K
Sait, Robani

Nov 2001 – Nov 2004
Invasion Sequence and the Role of Natural Enemies in Shaping Community Assemblages and Their Dynamics
Natural Environment Research Council, \$500K
Sait, Robani

Publications

Books

- 2008 Keeling, M.J. & **Rohani, P.** "Modeling Infectious Diseases". Princeton University Press, Princeton
- 2019 **Rohani, P.** & Scarpino, S.V. (Eds) "Pertussis: Epidemiology, Immunology & Evolution". Oxford University Press, Oxford

Scientific Reports

- 2013 Committee on the Assessment of Studies of Health Outcomes Related to the Recommended Childhood Immunization Schedule. The Childhood Immunization Schedule and Safety. The Institute of Medicine, National Academies

Technical Reports

- 2008 Conlan, A.J.K. & **Rohani, P.** Examining the Precision of the Measles Strategic Planning Tool. Report to the Quantitative Immunization and Vaccines Related Research advisory committee, World Health Organization
- 2009 **Rohani, P.** & Drake, J.M. Evaluating the Measles Strategic Planning Tool. Report to the Quantitative Immunization and Vaccines Related Research advisory committee, World Health Organization

Manuscripts – in preparation/in review

- Arhami, O. Taherzadeh, M. & **Rohani, P.** Serological Assays for Viral Antigenic Characterization: Evolution, Integration, and Future Directions. *Bioinformatics*. (in prep)
- Brett, T.S. & **Rohani, P.** Collateral effects of COVID-19 pandemic control on the US infectious disease landscape. *Science*. (resubmitted)
- Sukanta, Marty, E., **Rohani, P.** & Drake, J.M. Compliance behaviour and pandemic control. *Letters in Biomathematics*. (to be submitted – available upon request)
- Damodaran, L., Dailey, C., Tan, S., Hassell, N., Kondor, R., Carmola, L., Drake, J.M., **Rohani, P.** & Bahl, J. Identifying source and sink regions of seasonal influenza A(H3N2) virus transmission in the United States, 2011-2020. *PLOS Comp Bio* (to be submitted – available upon request).
- Chen, J., Gokhale, D.V., Liu, L., **Rohani, P.** & Bahl, J. Characterizing Potential Interaction Between Respiratory Syncytial Virus and Seasonal Influenza in the U.S. *Epidemics*. (in revision)
- Qian, Y., Marty, E., Basu, A., O'Dea, E.B., Wang, X., Fox, S., **Rohani, P.**, Drake, J.M. & Li, H. Physics-informed deep learning for infectious disease forecasting. *PLOS Comp Bio* (to be submitted – available upon request).
- Brett, T.S., Tredennick, A., Briga, M., Domenech de Cellès, M. & **Rohani, P.** Quantifying the Impact of Vaccination on Pertussis Dynamics in Sweden *PLOS Comp Bio* (to be submitted – available upon request).
- Forna, A., Damodaran, L., Gunning, C.E., Venkat, Aarya, Kannan, N., Kondor, R., Bahl, J., **Rohani, P.** & Drake, J.M. Alignment-Free Prediction of Cross-Reactivity in Influenza A (H3N2) Reveals Antigenic Drift Dynamics. *PNAS*. (to be submitted – available upon request)
- Felix, V., **Rohani, P.** & Drake, J.D. Improving ARIMA and ARIMAX models short-term forecasts of influenza hospitalizations on the contiguous U.S. *Letters in Biomathematics* (to be submitted – available upon request).
- Siceloff, A.T., Waltman, D., Gunning, C.E., Nolan, S.P., **Rohani, P.** & Shariat, N.W. A longitudinal study of Salmonella population dynamics and rodent impact in southeastern broiler breeder flocks. *Frontiers in Microbiology* (submitted – available upon request).
- Domenech de Cellès, M., Wong, A., Dalby, T. & **Rohani, P.** Immune boosting and the perils of estimating pertussis infections from seroprevalence studies: A mathematical modeling study. *Nature Communications* (in revision).

Papers – published

171. Arhami, O. & **Rohani, P.** Topolow: A mapping algorithm for antigenic cross-reactivity and binding affinity assay results. *Bioinformatics* (in press).
170. Gunning, CE, Gill, C.J. & **Rohani, P.** (2025) Shining light on the dark matter of pertussis: evidence for an asymptomatic carriage state from a longitudinal cohort of mother/infant dyads. *eLife* 14:RP106139.

169. Drake, J.M., Bahl, J., Cacciatore, M.A., Ghadami, A., Graeden, E., Han, B.A., Nowak, G., Marty, E., Robertson, H., **Rohani, P.**, Sarkar, S., Stott, G.L., Winter, A.K., Epureanu, B. (2025) Leveraging systems-of-systems analysis to strengthen epidemic intelligence for preparedness and response *Health Security*. (in press)
168. Domenech de Cellès, M. & **Rohani, P.** Pertussis Vaccines, *Epidemiology and Evolution*. (2024) *Nat. Rev. Mic.* <https://doi.org/10.1038/s41579-024-01064-8>.
167. Forna, A., Weedop, K.B., Damodarane, L., Hassell, N., Kondor, R., Bahl, J., Drake, J.M., **Rohani, P.** (2024) Sequence-based detection of emerging antigenically novel influenza A viruses. *Proceedings of the Royal Society of London - B*. 291: 20240790.
166. **Rohani, P.** & Bahl, J. (2024) Collateral effects of pandemic control. *Science* 386: 620-621 *Perspective*.
165. Briga, M. Goulta, E., Brett, T.S., Tredennick, A., **Rohani, P.** & Domenech de Cellès, M. (2024) Maternal immunization and blunting of pertussis vaccines in infants: Too early to tell *Nat. Comm.* 15, 921
164. Gokhale, D., Brett, T.S., He, B., King, A.A. & **Rohani, P.** (2023) Disentangling the causes of mumps reemergence in the US. *PNAS* 120: e2207595120.
163. Brett, T.S., Bansal, S. & **Rohani, P.** (2023) Charting the spatial dynamics of early SARS-CoV-2 transmission in Washington state. *PLoS Comp. Biol.* 19(6): e1011263.
162. Rane, M., Wakefield, J., **Rohani, P.**, & Halloran, M.E. (2023) Association between pertussis vaccination coverage and other sociodemographic factors and pertussis incidence using surveillance data. *Epidemics* 44: 100689.
161. Ghadami, A., O’Dea, E.B.O., Drake, J.M. **Rohani, P.** & Epureanu, B.I. (2023) Forecasting Epidemic Transitions with Multivariate Spectral Similarity. *Nonlinear Dynamics* 111, 17605-17615).
160. Irwin, B., Tomamichel, M., Frischer, M., Hall, R., Davis, A., Bliss, T., **Rohani, P.** & Byers, J.E. (2023) Managing the Threat of Infectious Disease for Sustainable Seafood Production. *Frontiers in Ecology and the Environment*. (in press)
159. Hempel, K., McDonald, W., Osgood, N.D., Fisman, D., Halperin, S.A., Crowcroft, N., Klein, N., **Rohani, P.** & Doroshenko, A. (2023) Evaluation of the Effectiveness of Maternal Immunization against Pertussis in Alberta using Agent-Based Modeling: A Canadian Immunization Research Network Study. *Vaccine*. 41: 2430-2438.
158. Brett, T.S. & **Rohani, P.** (2023) Containing novel SARS-CoV-2 variants at source is possible with high intensity sequencing. *PNAS Nexus* 1: pgac159.
157. Gunning, CE, **Rohani, P.**, Mwananyanda, L, Kwenda, G, Mupila, Z & Gill, C.J. (2023) Longitudinal qPCR signals reveal a high burden of asymptomatic and minimally symptomatic *Bordetella pertussis* infections in a birth cohort of African mother/infant pairs. *PeerJ* 11:e15175.
156. Saeidpour, A. & **Rohani, P.** (2022) Optimal dynamic control for managing Covid-19 epidemic via evolutionary strategy. *Evolution, Medicine, and Public Health* 10: 59-70.
155. Domenech de Cellès, M., Wong, A., Guevara, L.A.B. & **Rohani, P.** (2022) Estimating the time needed to identify the duration of protection conferred by COVID-19 vaccines. *J R Soc Interface*. 19: 20220070.
154. Tredennick, A.T., O’Dea, E.B., Ferrari, M.J., Park, A.W., **Rohani, P.** & Drake, J.M. (2022) Anticipating disease emergence and elimination: a test of early warning signals using empirically based models. *J R Soc Interface* 19: 20220123.
153. Saeidpour, A., Bansal, S. & **Rohani, P.** (2022) Dissecting recurrent waves of pertussis across the boroughs of London. *PLoS Comp Biol* 18(4): e1009898.
152. Hayman, D.T.S., John, R.S. & **Rohani, P.** (2022) Transmission models indicate Ebola virus persistence in primate populations is unlikely. *J. R. Soc. Interface* <https://doi.org/10.1098/rsif.2021.0638>.
151. Borchering, R.K., Gunning, C.E., Gokhale, D.V., Weedop, K.B., Saeidpour, A., Brett, T.S. & **Rohani, P.** (2021) Novel Influenza B/Victoria viruses alter influenza seasonality in the United States. *PNAS* 118 (5) e2012327118.
150. **Rohani, P.** & Drake, J.M. (2021) Untangling the evolution of dengue viruses. *Science* 374: 941-942. *Perspective*
149. Le. A., King, A.A., Magpantay, F.M.G., Mesbahi, A. & **Rohani, P.** (2021) The impact of infection-derived immunity on disease dynamics. *J. Math. Biol.* 83:61. doi: 10.1007/s00285-021-01681-4.
148. Gill, CJ, Gunning, CE, Macleod, WB., Mwananyanda, L, Thea, D, Pieciak, RC, Kwenda, G, Mupila, Z & **Rohani, P.** (2021) Longitudinal qPCR signals reveal a high burden of asymptomatic and minimally symptomatic *Bordetella pertussis* infections in a birth cohort of African mother/infant pairs. *eLife* 10: e65663.

147. Kostoulas, P. *et al.* (2021) The Epidemic Volatility Index: an early warning tool for epidemics. *Scientific Reports* 11: 23775.
146. Rane, M., **Rohani, P.**, & Halloran, M.E. (2021) Durability of protection after 5 doses of acellular pertussis vaccine among 5-9 year old children in King County, Washington. *Vaccine* 39: 6144-6150.
145. Ghadami, A., Doering, C.R., Drake, J.M., **Rohani, P.** & Epareanu, B.I. (2021) Generic indicators of stability and resilience: Assessing the chance of traffic jams on highways. *IEEE Transactions on Intelligent Transportation Systems* doi:10.1109/TITS.2021.3095897.
144. Li, X., Ghadami, A., Drake, J.M., **Rohani, P.** & Epareanu, B.I. (2021) Feedbacks between global supply chain disruption and the spread of SARS-CoV-2. *Sci Rep* 11: 15450.
143. Rane, M., **Rohani, P.**, & Halloran, M.E. (2021) Role of the Diphtheria-Tetanus-acellular Pertussis vaccine timing and number of doses on age-specific pertussis risk in infants and young children in King County, Washington. *JAMA Network Open* 4(8):e2119118.
142. Drake, J.M., Dahlin, K., **Rohani, P.** & Handel, A. (2021) Five approaches to the suppression of SARS-CoV-2 without intensive social distancing. *Proc R Soc Lond B* 288: 20203074.
141. Brett, T.S. & **Rohani, P.** (2020) Dynamical footprints enable detection of disease emergence. *PLoS Biology* 18(5): e3000697.
140. Brett, T.S. & **Rohani, P.** (2020) Transmission dynamics reveal the impracticality of COVID-19 herd immunity strategies. *PNAS* 202008087.
139. Gunning, CE, Mwananyanda, L, Macleod, WB, Mwale, M, Thea, D, Pieciak, RC, **Rohani, P.** & Gill, CJ. (2020) Implementation and adherence of routine pertussis vaccination (DTP) in a low-resource urban birth cohort. *BMJ Open* 10:e041198.
138. Kwuimy, C.A.K., Nazari, F., Jiao, X., **Rohani, P.** & Nataraj, C. (2020) Nonlinear dynamic analysis of an epidemiological model for COVID-19 including public behavior and government action. *Nonlinear Dynamics*. <https://doi.org/10.1007/s11071-020-05815-z>.
137. O'Regan, S.M., O'Dea, E., **Rohani, P.** & Drake, J.M. (2020) Transient indicators of tipping points in infectious diseases. *J. R. Soc. Interface* 17: 20200094.
136. Damron, F.H., Barbiera, M., Dubey, P., Edwards, K.M., Gu, X.-X., Klein, N. P., Lu, K., Mills, K.H.G., Pasetti, M., Read, R.C., **Rohani, P.**, Sebo, P. & Harvill, E.T. (2020) Overcoming Waning Immunity in Pertussis Vaccines: Workshop of the National Institute of Allergy and Infectious Diseases. *J. of Immunology* 205: 877-882.
135. Drake, J.M., O'Regan, S.M., Dakos, V., Kéfi, S. & **Rohani, P.** (2020) Alternative Stable States, Tipping Points, and Early Warning Signals of Ecological Transitions. *Theoretical Ecology: Concepts and Applications* (Eds: K. McCann & Gellner); Oxford University Press, Oxford.
134. Brett, T.S., Ajelli, M., Liu, Q., Krauland, M., van Panhuis, W.G., Vespignani, A., Drake, J.M. & **Rohani, P.** (2020) Detecting critical slowing down in high-dimensional epidemiological dynamics. *PLoS Comp Biol*. doi.org/10.1371/journal.pcbi.1007679.
133. Domenech de Celles, M., **Rohani, P.** & King, A.A. (2019) Duration of Immunity and Effectiveness of Diphtheria-Tetanus-Acellular Pertussis Vaccines in Children. *JAMA Pediatrics* . doi:10.1001/jamapediatrics.2019.0711.
132. Magpantay, F., King, A.A. & **Rohani, P.** (2019) Forecasting the transient dynamics of infectious diseases. *J R Soc Interface* doi.org/10.1098/rsif.2019.0151.
131. **Rohani, P.** & Scarpino, S.V. (2019) Introduction to pertussis transmission and epidemiological dynamics. In: *Pertussis: Epidemiology, Immunology & Evolution* (Eds: Rohani & Scarpino) Oxford University Press, Oxford
130. King, A.A. Domenech de Cellès, M., Magpantay, F.M.G. & **Rohani, P.** (2019) Pertussis immunity and the epidemiological impact of adult transmission: statistical evidence from Sweden and Massachusetts. In: *Pertussis: Epidemiology, Immunology & Evolution* (Eds: Rohani & Scarpino) Oxford University Press, Oxford
129. Drake, J.M., Brett, T.S., Ferrari, M.J., Marty, E., Miller, P. B., O'Dea, E., Chen, S., Epareanu, B., Park, A.W., O'Regan, S.M. & **Rohani, P.** (2019) The Statistical Physics of epidemic transitions. *PLoS Comp Biol*. 15(5): e1006917.
128. Noori, N. & **Rohani, P.** Quantifying the Consequences of Measles-Induced Immune Amnesia for Whooping Cough Epidemiology. *Philosophical Transactions of the Royal Society of London B*. 374 doi.org/10.1098/rstb.2018.0270.
127. Domenech de Celles, M., King, A.A. & **Rohani, P.** (2019) Resolving pertussis resurgence and vaccine immunity using mathematical transmission models. *Human Vaccines & Immunotherapeutics* doi.org/10.1080/21645515.2018.1549432.

126. Domenech de Celles, M., King, A.A. & **Rohani, P.** (2018) Response to Comment on "The impact of past vaccination coverage and immunity on pertussis resurgence". *Science Translational Medicine* 10: eaau9627
125. Domenech de Celles, M., Magpantay, F.M.G., King, A.A. & **Rohani, P.** (2018) The impact of past vaccination coverage and immunity on pertussis resurgence. *Science Translational Medicine* 10: eaaj1748.
124. Brett, T.S., O'Dea, E.B., Marty, E., Miller, P.B., Park, A.W., Drake, J.M. & **Rohani, P.** (2018) Anticipating epidemic transitions with imperfect data. *PLoS Comp Biol* 14: e1006204.
123. Bento, A.I., Riolo, M.A., Choi, Y., King, A.A. & **Rohani, P.** (2018) Core pertussis transmission groups in England and Wales: A tale of two eras. *Vaccine* 36: 1160-1166.
122. Noori, N., Drake, J.M. & **Rohani, P.** (2017) Comparative epidemiology of poliomyelitis transmission around the world. *Scientific Reports*. doi:10.1038/s41598-017-17749-5
121. Brett, T.S., Drake, J.M. & **Rohani, P.** (2017) Anticipating the Emergence of Infectious Diseases. *J R Soc Interface*. 14: 20170115.
120. Miller, P., O'Dea, E.B., **Rohani, P.** & Drake, J.M. (2017) Forecasting infectious disease emergence subject to seasonal forcing. *Theoretical Biology and Medical Modelling*.
119. Gill, C.J., **Rohani, P.** & Thea, D.M. (2017) Mucosal immunity, asymptomatic carriage and the resurgence of Bordetella pertussis. *F1000Research*.
118. Bento, A.I., King, A.A. & **Rohani, P.** (2017) Maternal pertussis immunization: clinical gains and epidemiological legacy *EuroSurveillance*. in press
117. Bento, A.I. & **Rohani, P.** (2016) Forecasting epidemiological consequences of maternal immunization. *Clinical Infectious Diseases* 63 Supp 4: S205-S212.
116. Domenech de Celles, M., Magpantay, F.M.G., King, A.A. & **Rohani, P.** (2016) The Pertussis Enigma: Synthesizing Contradictory Evidence. *Proceedings of the Royal Society of London B*. 283: 20152309
115. Blackwood, J.C., Cummings, D.A.T., Broutin, H., Iamsirithaworn, S. & **Rohani, P.** (2016) Examining the transmission consequences of pertussis vaccines using age-specific incidence patterns in Thailand. *Epidemics*. 16: 1-7.
114. Kramer, A.M., Pulliam, J.T., Alexander, L.W., Park, A.W., **Rohani, P.** & Drake, J.M. (2016) Spatial spread of the West Africa Ebola epidemic. *Royal Society Open Science* 3: 160294.
113. Vinson, J.E., Drake, J.M., **Rohani, P.** & Park, A.W. (2016) The potential for sexual transmission to compromise control of Ebola virus outbreaks. *Biology letters*, 12: 584-587.
112. Martinez-Bakker, M., King, A.A., & **Rohani, P.** (2015) Unraveling the transmission ecology of polio. *PLoS Biology*. 13(6): e1002172
111. Shrestha, S., Foxman, B., Berus, J., van Panhuis, W.G., Weinberger, D.M., Steiner, C., Viboud, C. & **Rohani, P.** (2015) The role of influenza in the epidemiology of pneumonia. *Nature Scientific Reports*. 5: 15314.
110. King, A.A., Domenech de Celles, M., Magpantay, F.M.G. & **Rohani, P.** (2015) Avoidable errors in the modeling of outbreaks of emerging pathogens, with special reference to Ebola *Proceedings of the Royal Society of London B*. 282: 20150347.
109. Magpantay, F.M.G., Domenech de Celles, M., **Rohani, P.** & King, A.A. (2015) Pertussis immunity and epidemiology: mode and duration of vaccine-induced immunity. *Parasitology*. 143: 835 - 849.
108. Handel, A. & **Rohani, P.** (2015) Crossing the scale from within-host infection dynamics to transmission fitness: A discussion of current assumptions and knowledge. *Philosophical Transactions of the Royal Society of London B*. 370 20140302
107. Riolo, M.A. & **Rohani, P.** (2015) Combating Pertussis Resurgence: One Booster Vaccination Schedule Doesn't Fit All. *Proceedings of the National Academy of Sciences USA* doi/10.1073/pnas.1415573112
106. Riolo, M.A., **Rohani, P.** & Hunter, M.D. (2015) Local variation in plant quality influences large-scale population dynamics. *Oikos* 124 1160-1170.
105. Magpantay, F.M.G. & **Rohani, P.** (2015) Pertussis epidemiology in the United States during the early vaccine era. *American Journal of Epidemiology* 181 921-31.

104. Roche, B., Drake, J.M., Brown, J., Stallknecht, D.E., Bedford, T. & **Rohani, P.** (2014) Adaptive evolution and environmental durability jointly structure phylodynamic patterns in avian influenza viruses. *PLoS Biology* **12** e1001931.
103. Martinez-Bakker, M., Bakker, K.M., King, A.A. & **Rohani, P.** (2014) Human Birth Seasonality: Latitudinal Gradient and Interplay with Childhood Disease Dynamics. *Proceedings of the Royal Society of London B* **281** 20132438.
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6. **Rohani, P.** & Miramontes, O. (1995) Host Parasitoid Metapopulations: the Consequences of Parasitoid Aggregation on Spatial Dynamics and Searching Efficiency. *Proceedings of the Royal Society of London B* **260** 335-342.
5. **Rohani, P.** & Miramontes, O. (1995) Immigration and the Persistence of Chaos in Population Models. *Journal of Theoretical Biology* **175** 203-206.
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Mentoring

Graduate Students

University of Georgia

2024 – present Xinyi Zhou (PhD, Bioinformatics)

2022 – present Omid Arhami (PhD, Bioinformatics)

2017 – 2022 Deven Gokhale (PhD, Ecology) – Research Scientist, Institute for Disease Modeling

2019 – 2021 Bodie Weedop (MS, Bioinformatics)

2006 – 2011 Daniel Streicker (PhD, Ecology) – Professor, University of Glasgow, UK

2005 – 2007 Hanh Nguyen (MSc, Ecology) – Director, NGO, Hanoi, Vietnam

2003 – 2006 Matthew Bonds (PhD, Ecology) – Associate Professor, Harvard University, USA

University of Michigan

2010 – 2015 Micaela Martinez-Bakker (PhD, Ecology & Evolutionary Biology) – Assistant Professor, Emory University, USA

2011 – 2014 Maria Riolo (PhD, Applied & Interdisciplinary Mathematics) – Omidyar Fellow, Santa Fe Institute, USA

University of Cambridge

2000 – 2004 Natalia Mantilla-Beniers (PhD, Zoology) – Professor, UNAM, Mexico

1998 – 2001 Tom Reader (PhD, Zoology) – Professor, University of Nottingham, UK

Postdocs

University of Georgia

2022 – present Alpha Fornà

2022 – 2023 Nadim Shahid (Institute for Complexity, Italy)

2019 – present Christian Gunning

2015 – present Toby Brett

- UGAs Postdoctoral Research Award 2020

2017 – 2021 Arash Saeidpour (Amazon Web Services)

2019 – 2020 Rebecca Borchering (Scientist, CDC)

2015 – 2019 Ana Bento (Assistant Professor, Cornell University, USA)

2015 – 2019 Jasmina Luczo (Scientist, Australian Centre for Disease Preparedness, CSIRO)

2015 – 2018 Navideh Noori (Staff Scientist, Institute for Disease Modeling, USA)

2016 – 2017 Afshin Mesbahi (Research Associate, University of Washington, USA)

2015 – 2016 Diego Moreno (Data Scientist, Biotech company, Spain)

2007 – 2009 Jerome Niogret (Principal Scientist, USDA, Florida, USA)

Mentoring

2007 – 2009 Romulus Breban (Faculty, Institut Pasteur, Paris, France)

2005 – 2008 Steven White (Faculty, University of Oxford, UK)

2004 – 2008 Dan Vasco (Research Associate, University of Luxembourg, Luxembourg)

2005 – 2006 Marc Choisy (Scientist, IRD, Vietnam)

2001 – 2007 Helen Wearing (Professor, University of New Mexico, USA)

2003 – 2005 Yunxin Huang (Professor, Hubei University, China)

University of Michigan

2013 – 2015 Felicia Magpantay (Assistant Professor, Queen's University, Canada)

2013 – 2015 Matthieu Domenech de Celles (Group Leader, Max Planck Institute, Berlin, Germany)

2012 – 2013 Doug Jackson (Research Scientist, USGS, USA)

2009 – 2013 Sourya Shrestha (Research Associate, Johns Hopkins University, USA)

2010 – 2013 Vicki Brown (Research Scientist, University of South Wales, UK)

2011 – 2012 Jijun Zhao (Professor, Qingdao University, China)

2010 – 2013 Julie Blackwood (Associate Professor, Williams College, USA)

2012 – 2014 Daniel Streicker (Wellcome Trust Research Fellow, University of Glasgow, UK)

2010 – 2011 Eli Goldwyn (Associate Professor, University of Portland, USA)

2008 – 2010 Benjamin Roche (Group Leader, IRD, Montpellier, France)

2009 – 2010 Xue Zhong (Research Instructor in Medicine, Vanderbilt University, USA)

Undergraduate Research Mentorship

Nick Lupien (Computer Science, UGA), Andrew Leidner (Economics, UGA), Samantha Burton (Ecology, UGA), Mark Milby (Ecology, UGA), Emily Carter (Ecology, UGA), Sheena Zhang (Biology, UGA), Micaela Martinez-Bakker (EEB, Michigan), Joshua Berus (Biology, Michigan), Monica Sangal (EEB, Michigan), Gowri Vadmal (REU, UGA), Sofia McDonough (REU, UGA), Elena Jauregui (OSE, UGA), Henry Traynor (OSE, UGA).

Graduate Advisory Committees

Sandy Helms (Ecology, UGA), Lucas Wilkinson (Ecology, UGA), Tom Cameron (Biology, University of Leeds), Caralyn Zehnder (Ecology, UGA), Sonia Hernandez (Ecology, UGA), Vanessa Corby (Genetics, UGA), Chih-Horng Kuo (Genetics, UGA), Bradd Haley (Environmental Health, UGA), Cat Bradley (Ecology, UGA), JD Willson (SREL, UGA), Doug Jackson (EEB, Michigan),

Jennifer Knapp (Epi, Michigan), Andres Baeza (EEB, Michigan), Clarisse Bettancourt (EEB, Michigan), Paul Glaum (EEB, Michigan), Paige Miller (UGA), Madhura Rane (Epi, Washington), Joseph Hicks (Infectious Diseases, UGA), Xueting Qiu (Infectious Diseases, UGA), Zachary Petty (Institute of Bioinformatics, UGA), Amy Sicheloff (Microbiology, UGA), jillian Goodrich (Engineering, UGA).

Faculty Mentoring Committees

Justin Bahl (Epidemiology, UGA), Liliana Salvador (Infectious Diseases, UGA), Yun Tao (Institute of Bioinformatics, UGA)

Teaching

University of Georgia

ECOL 3820 *Evolutionary Medicine* (2018–present)

ECOL 4150/6150 *Population Biology of Infectious Diseases* (2018)

ECOL 8910 *Multiscale Modeling* (2017)

ECOL 8520 *Fundamentals of Infectious Disease Ecology* (2017)

GRSC 8020 *Critical Reading of the Primary Scientific Literature* (2016)

ECOL 8325 *Modeling Ecological Populations* (2003–7)

ECOL 8310 *Population & Community Ecology* (2008)

ECOL 8990 *Ecology of Infectious Diseases* (2006, 2008)

ECOL 4650 *Foundations of Ecology* (2004, 2005)

ECOL 4900 *Senior Seminar* (2005)

University of Michigan

EEB 315 *Ecology & Evolution of Infectious Diseases* (2010, 2011, 2013, 2014, 2015)

CMPLXSYS 430 *Modeling Infectious Diseases* (2010, 2011, 2013, 2014, 2015)

Extramural

Summer School in Statistics & Modeling in Infectious Diseases, University of Washington *Mathematical Models of Infectious Diseases* (2009–2019)

International Center for Theoretical Physics, Trieste, Italy *Modeling Infectious Diseases* (2000, 2013)

Nelson Mandela African Institution of Science & Technology, Arusha, Tanzania *Modeling Infectious Diseases* (2011)

Professional Service

Society Leadership

- Chair, Steering Committee, National Institutes of Health Modeling Infectious Disease Agent Study Network (2017–2019)

Professional Service

Editorial Boards

- American Naturalist (2007–2019)
- Ecology Letters (2017–present)
- Evolution, Medicine and Public Health (2018–present)
- Proceedings of the Royal Society of London - Biological Sciences (2012–2016)

Guest Academic Editor

PNAS, PLoS Biology, PLoS Medicine, PLoS Computational Biology

External Book Reviewer

Cambridge University Press, Springer Verlag, University of Chicago Press, Princeton University Press **Grant Review**

Panel Member

National Science Foundation

- Population & Community Ecology (2007, 2009, 2015)
- Ecology & Evolutionary Processes (2010, 2012)

National Institutes of Health

- Fellowships: Epidemiology & Population Science (2023)
- Infectious, Reproductive, Asthma and Pulmonary Conditions (2015, 2016, 2017–2021)
- MIDAS project grants (2008)
- Clinical Research and Field Studies of Infectious Diseases (2011)
- Modeling & Analysis of Biological Systems (2014, 2017)
- Special Emphasis Panel (2015, 2016)

Netherlands Organisation for Scientific Research (2016)

Ad Hoc Proposal Reviewer

The Royal Society, Biotechnology and Biological Sciences Research Council (UK), Natural Environment Research Council (UK), National Science Foundation, Wellcome Trust (UK), Medical Research Council (UK), European Research Council, Trinity College (Cambridge, UK) and Emmanuel College (Cambridge, UK)

Advisory Board Member

- Center for Population Health Research, University of Montana (2020–present)
- Center for Vaccines & Immunology, University of Georgia (2019–present)
- Center for the Ecology of Infectious Diseases, University of Georgia (2017–2019)
- Chair, Modeling Infectious Disease Agent Study Network Executive Committee (2017–2019)
- Summer Institute on Statistics and Modeling in Infectious Diseases, University of Washington, USA (2011–2015)
- Board of Scientific Counsellors, National Center for Zoonotic, Vector-Borne and Enteric Diseases, CDC (2007–2008)

Professional Service

Ad Hoc Reviewer & Nominator

MacArthur Foundation Fellows Program (2009, 2014, 2016, 2017, 2020)

Panel Member

Institute of Medicine committee to review health and safety outcomes of immunization schedule (2012-2013)

Conferences/Symposia Organized

- ESA symposium *The death of determinism? The role of noise and nonlinearity in ecological theory* Savannah, GA 2003 (Pascual, Rohani)
- Ecology & Evolution of Infectious Diseases Conference, Athens, GA 2009 (Altizer, Rohani); Ann Arbor, MI 2012 (Rohani, King)

PhD Theses Examined

Lisa White, University of Warwick 7/12/00

Deborah Long, University of Cambridge 14/7/01

Andrew Conlan, University of Cambridge 10/12/06

Emma Southall, University of Warwick, 3/8/2021

Invited Conference Presentations

- **International Conference on Mathematical Biology**, Alcala, Spain; Sept 1998
- **From Cells to Continua: Modelling Space in Biology**, Edinburgh; Mar 1999
- **Workshop on Modelling Whooping Cough**, Barcelona; May 2001
- **SIAM conference on Life Sciences**, Boston; Mar 2002
- **IUBS Symposium on Integrative Biology**, UNESCO, Paris; May 2002
- **DIMACS workshop on epidemiology**, Rutgers University; July 2002
- **Workshop on Modelling Whooping Cough** New York City; Oct 2002
- **Journees de l'IFB**, Tours, France; Dec 2002
- **Ecology of Infectious Diseases Symposium**, AAAS meeting, Denver; Feb 2003
- **Seasonality of Infectious Diseases working group**, NCEAS, Santa Barbara, Oct 2003
- **Networks and the Dynamics of Disease Transmission**, Minnesota, Nov 2003
- **Disease Ecology and Evolution**, EEID meeting, Emory, May 2004
- **Biodiversity: Science & Governance**, Paris Jan 2005

Professional Service

- **Mathematics of Infectious Diseases**, AAAS meeting, Washington DC, Feb 2005
- **Ecology of Infectious Diseases**, Cary Conference, Institute of Ecosystem Studies, Apr 2005
- **Viral Paradigms**, Georgia Tech, Jan 2008
- **You say pertussis, I say petussis**, Transmission 2008, Warwick, UK July 2008
- **Complex and stochastic epidemic dynamics**, SIAM, Montreal Aug 2008
- **Computational Problems in Epidemiology** ISIF, Turin, Italy Oct 2008
- **Epidemiology of Pertussis**, Centres for Disease Control & Prevention, Dec 2008
- **Transient dynamics in Infectious Diseases** ESA, Milwaukee, Aug 2008
- **Ecology of Avian Influenza Viruses** Immunobiology of Influenza, UGA Jul 2009
- **Hierarchical dynamics of pertussis** MAC-EPID symposium, UMich, Sept 2009
- **Modeling dengue serotype dynamics**, Duke-NUS EID, Singapore, Dec 2009
- **Michigan-Santa Fe Institute Conference**, Ann Arbor, Oct 2010
- **Disease Invasion Impacts on Biodiversity symposium**, Zoological Society of London, Nov 2010
- **Plenary: MIDAS network meeting**, Alexandria, VA, Nov 2012
- **U-M American Medical Student Association**, Ann Arbor, Oct 2013
- **Complexity and multi-discipline Science**, UNAM, Mexico City, Nov 2013
- **Vaccines and evolution**, Annecy, France, Nov 2013
- **Keystone Symposium on Coinfection**, Ouro Preto, Brazil, Mar 2015
- **Conference Mathematical & Computational Epidemiology**, Erice, Italy, Aug 2015
- **Contagion 2015**, Tempe, Arizona, Sep 2015
- **Infant Burden of Pertussis**, Atlanta, GA, Feb 2016
- **MIDAS network meeting**, Washington DC, May 2016
- **Society for Epidemiologic Research**, Miami, FL, Jun 2016

Professional Service

- **Multi-Strain Infectious Disease Systems**, Utrecht, Netherlands, Sep 2016
- **Public Health and Modelling**, Toronto, Canada, Oct 2016
- **Conference Mathematical & Computational Epidemiology**, Erice, Italy, Aug 2018
- **Vaccines & Vaccination**, Annecy, France, Nov 2016
- **Disease Ecology / Eco-epidemiology**, Mathematical Biology Institute, Columbus, OH, Apr 2018
- **Symposia on Host Responses to Respiratory Pathogens**, University of Georgia, Apr 2018
- **Options X for the control of influenza**, Singapore, August 2019
- **Respiratory Division Symposium: overcoming waning pertussis immunity**, National Institutes of Health, September 2019
- **Plenary: Multi-Pathogen Infectious Disease Systems**, University of Utrecht, October 2019
- **Distinguished Lecture: Harnessing Dynamical Footprints to Detect Disease Emergence**, Canadian Center for Disease Modeling, December 2020
- **Charter Lecture: Dynamical Models for Disease Emergence and Mitigation**, University of Georgia, April 2021
- **Te Pūnaha Matatini Whānau** annual retreat speaker, New Zealand, July 2022
- **Mathematical Ecology Workshop**, Queen's University, Canada, August 2022
- **Keynote: Center for the Ecology of Infectious Diseases**, University of Georgia, October 2022
- **Keynote: Center for Emerging Zoonotic and Arthropod-Borne Diseases**, Virginia Tech, October 2023
- **Keynote: Nordic Institute for Theoretical Physics**, Stockholm, Sweden, May 2023
- **International Forum on Ecology and Evolution of Avian Influenza**, University of Oklahoma, March 2024
- **International Bordetella Symoisium**, Prague, Czech Republic, June 2024
- **Options XII for Influenza Control**, Brisbane, Australia, Sept 2024

Contributed Talks

- British Ecological Society, Lancaster, Dec 1993

Professional Service

- British Ecological Society, Birmingham, Dec 1996
- International Ecology Congress, Florence, July 1998
- Ecological Society of America, Spokane, Aug 1999
- British Ecological Society, Leeds, Jan 1999
- British Ecological Society, Sheffield, Dec 2000
- Ecological Society of America, Tucson, Aug 2002
- Ecological Society of America, Savannah, Aug 2003
- Ecological Society of America, Montreal, Aug 2005
- Ecological Society of America, Pittsburgh, Aug 2010
- Ecological Society of America, Portland, Aug 2017

Departmental Seminars

- Department of Biology, University of Leiden, Netherlands; Feb 1993
- Department of Biology, University of Tartu, Estonia; Dec 1993
- Institute of Physics, UNAM, Mexico City; Jul 1996
- Department of Biology, University of Stirling, Scotland; Nov 1996
- School of Arts & Sciences, University of Tokyo, Japan; Jan 1997
- School of Biological Sciences, University of Liverpool; Apr 1997
- Institute of Ecology, UNAM Mexico City; May 1998
- Centre for Nonlinear Dynamics, University College, London; Jun 1998
- Department of Biology, Imperial College, Silwood Park; Nov 1999
- Department of Biology, University of Stirling, Scotland; Nov 1999
- Centre for Complexity, UNAM, Mexico City; Aug 2000
- Department of Biology, Imperial College, Silwood Park; Nov 2001
- Division of Environmental and Evolutionary Biology, University of Glasgow; Nov 2001
- National Immunisation Program, CDC, Atlanta; Mar 2002
- Department of Environmental Sciences, Emory University, Atlanta; Sept 2002

Professional Service

- Department of Ecology & Evolutionary Biology, University of Michigan; Oct 2002
- Ecology and Evolutionary Biology Department, University of Tennessee; Mar 2003
- Department of Genetics, University of Georgia; Sept 2003
- Department of Ecology and Evolutionary Biology, Harvard University; Sept 2003
- Department of Ecology & Evolution, Chicago University; Jan 2004
- Department of Ecology & Evolution, Georgia Institute of Technology, Sept 2004
- Department of Plant Pathology, University of Georgia, Nov 2004
- National Immunisation Program, CDC, Atlanta; Jan 2005
- Department of Ecology & Evolution, Princeton University, Mar 2005
- Department of Statistics, University of Georgia, Apr 2005
- Department of Biology, Emory University, Jan 2007
- Department of Mathematics, Georgia Institute of Technology, Feb 2007
- School of Public Health, Yale University, Apr 2007
- Department of Infectious Diseases, University of Georgia, Feb 2008
- Department of Biology, University of North Carolina, April 2008
- Department of Population Health, University of Georgia, Nov 2008
- Institute of Complex Systems, Ecole Normal Superior, Paris, Jan 2009
- Department of Ecology and Evolutionary Biology, U Michigan, Feb 2009
- Department of Ecology and Evolution, University of Chicago, Feb 2009
- Department of Epidemiology, Harvard University, Feb 2010
- Program in Interdisciplinary Biological and Biomedical Sciences, UNM Apr 2010
- Department of Statistics, University of Michigan, Oct 2010
- Laboratory of Respiratory Pathogens, FDA, Dec 2011
- Institute Pasteur, Paris, Apr 2012
- Center for Infectious Disease Dynamics, Penn State, Sept 2012
- Applied & Industrial Mathematics, UMich, Feb 2012

Professional Service

- Department of Epidemiology, UMich, Feb 2012
- Kellogg Biological Station, Michigan State, Sep 2013
- Department of Biology, U Florida, Mar 2014
- Department of Mathematics, UGA, Mar 2016
- Department of Biology, Notre Dame, Apr 2018
- Infectious Diseases Institute, Ohio State University, Apr 2018
- Department of Epidemiology, Emory, Feb 2019
- School of Public Health, Yale University, Jan 2020
- COVID-19 Modeling Consortium, UT Austin, Apr 2021
- Population Biology Interest Group, U Florida, Apr 2022
- Department of Statistics, UGA, Nov 2023
- School of Public Health, Columbia, Apr 2025
- CIDMATH, Rollins School of Public Health, Emory, Apr 2025

Service to University of Georgia

Department of Infectious Diseases

Executive Committee (2015 - present), Postdoctoral Affairs Committee (2020-present), Awards Committee (2015 - present), 5-year Strategic Planning Committee (2016 - 2017), Fundraising Committee (2016)

Department of Genetics

Theoretical Evolutionary Genetics search committee (2005)

Odum School of Ecology

Promotion & Tenure Unit Head (2020-2022), Strategic Planning Committee (co-Chair, 2018 - 2020), Promotion & Tenure Committee (2017 - 2020), IDEAS Steering Committee (2015 - present), Center for the Ecology of Infectious Diseases Steering Committee (2016 - 2019), Seminar Committee Chair (2016 - 2018), Executive Committee (2017-2019), Graduate Affairs (2007- 2009), Seminar (2004-2005), Computing Facilities (Chair, 2003-2004), Executive Committee (2007-2009), Space (2004-2006), Ecosystem ecology search committee (2003), Institute of Ecology director search committee (2005), UGA Faculty of Infectious Diseases search committee (2007, 2008), Population ecologist (Chair: 2004, 2005, 2007), Evolutionary Ecologist (Chair 2007)

University Service

- Leadership Council on Artificial Intelligence (2024 - present)
- Fullbright review committee (2018, 2023)

Professional Service

- Research Advisory Team, High Performance Computing, Office of Vice President for Research (2021-present)
- Special Professorships Committee (2020-2023)
- Program Review Committee, Odum School of Ecology (2020)
- Innovation District Faculty Advisory Council (2020-2024)
- Program Review Committee, Center for Tropical & Emerging Global Diseases (2019)
- Tenure & Promotion Appeals Committee (2016 - 2019)
- GA Research Computing Resource Center (GACRC) Advisory Committee (2016 - present)
- U.S. Student Fulbright Campus Committee (2019)
- Task Force on Graduate Education (2006-2007)
- Executive Committee Member: UGA Ecology of Infectious Disease Research Initiative
- Executive Council, UGA Faculty of Infectious Diseases (2007 - 2009)
- President's Faculty Advisory Committee (2008 - 2011)
- UGA Research Advisory Committee (2008 - 2009)

Service to University of Michigan

Ecology & Evolutionary Biology

Graduate affairs committee (2010-2012), Executive committee (2012-2014), Networks search committee (2011), 2 Tenure-Promotion committees (2011, 2013), 9 Decision making bodies (2010, 2011, 2012, 2014, 2015), Prelims committee (2014-2015), Promotion & Merit Committee (2014-2015)

Center for the Study of Complex Systems

Tenure-promotion (2011, 2012), Search Committee (2012, 2013, 2014)

Department of Epidemiology

Virology search committee (2012, 2014)

University Service

Interdisciplinary Studies Committee of the Individual Major Program (2014-2015)