

# CURRICULUM VITAE

Yang Yang

## I. Personal Information

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## II. Education

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### Degrees

2004 Ph.D. Biostatistics, Emory University, Atlanta, Georgia  
2004 M.S. Biostatistics, Emory University, Atlanta, Georgia  
1998 B.S. Applied Mathematics, South China University  
of Technology, China

### Other Education

1999 — 2000 Master program in Applied Statistics, Worcester Polytechnic Institute,  
Worcester, Massachusetts  
1998 — 1999 Master program in Applied Statistics, South China Univ. of Tech., China

## III. Employment and Professional Experience

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Aug 2022 — present Professor, Department of Statistics, University of Georgia  
July 2016 — July 2022 Associate Professor  
November 2011 — June 2016 Assistant Professor  
Department of Biostatistics, University of Florida  
November 2011 — Present Affiliated Investigator  
November 2010 — October 2011 Assistant Member  
July 2006 — October 2010 Staff Scientist  
Fred Hutchinson Cancer Research Center  
September 2004 — June 2006 Research Associate  
Center for Biostatistics in AIDS Research (CBAR), Harvard University.  
September 2001 — August 2004 Research Assistant

## IV. Scholarship

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### Publications in peer-reviewed journals

1. Halloran, ME, Longini, IM, Nizam, A and **Yang Y**. Containing Bioterrorist Smallpox. *Science*, 2002; 298: 1428-1432. [doi.org/10.1126/science.1074674](https://doi.org/10.1126/science.1074674).
2. Longini IM, Halloran ME, Nizam A and **Yang Y**. Containing Pandemic Influenza with Antiviral Agents. *American Journal of Epidemiology*, 2004; 159: 623-633. [doi.org/10.1093/aje/kwh092](https://doi.org/10.1093/aje/kwh092).
3. Fu, HZ, **Yang Y** and Yao, YX. A Mathematical Model in Ranking Tax Credibility of Entities. *Mathematics in Practice and Theory* (Chinese). 2004; 34: 11-15.
4. **Yang Y**, Longini, IM and Halloran, ME. Design and Evaluation of Prophylactic Intervention Using Infectious Disease Incidence Data from Close Contact Groups. *Journal of the Royal Statistical Society, Series C*. 2006; 55: 317-330. [doi.org/10.1111/j.1467-9876.2006.00539.x](https://doi.org/10.1111/j.1467-9876.2006.00539.x).
5. Longini IM, Halloran ME, Nizam A, **Yang Y**, Xu S, Burke DS, Cummings DAT and Epstein J. Containing a large bioterrorist smallpox attack: A computer simulation approach. *International Journal of Infectious Disease*. 2007; 11: 98-108. [doi.org/10.1016/j.ijid.2006.03.002](https://doi.org/10.1016/j.ijid.2006.03.002).
6. Halloran ME, Hayden F, **Yang Y**, Logini IM and Monto A. Antiviral Effects on Influenza Viral Transmission and Pathogenicity: Observations from Household-Based Trials. *American Journal of Epidemiology*. 2007; 165: 212-221. [doi.org/10.1093/aje/kwj362](https://doi.org/10.1093/aje/kwj362).
7. Mulligan K, **Yang Y**, Wininger D, Koletar S, Parker RA, Alston-Smith B, Basar M and Grinspoon S. Effects of Metformin and Rosiglitazone in HIV-Infected Patients with Hyperinsulinemia and Elevated Waist/Hip Ratio. *AIDS*. 2007; 21: 47-57. [doi.org/10.1097/QAD.0b013e328011220e](https://doi.org/10.1097/QAD.0b013e328011220e).
8. Shikuma CM, **Yang Y**, Meyer WA, Glesby M, Tashima KT, Ribaldo H, Webb N, Bastow B, Kuritzkes DR, and Gulick RM. Metabolic Effects of Protease Inhibitor-Sparing Antiretroviral Regimens given as Initial Treatment of HIV-1 Infection (AIDS Clinical Trials Group Study – A5095). *Journal of AIDS*. 2007; 44:540-550. [doi.org/10.1097/QAI.0b013e318031d5a0](https://doi.org/10.1097/QAI.0b013e318031d5a0).
9. **Yang Y**, Longini IM and Halloran ME. A Resampling-Based Test to Detect Person-To-Person Transmission of Infectious Diseases. *Annals of Applied Statistics*. 2007; 1:211-228. [doi.org/10.1214/07-AOAS105](https://doi.org/10.1214/07-AOAS105).
10. **Yang Y**, Longini IM and Halloran ME. A Data-Augmentation Method for Infectious Disease Incidence Data from Close Contact Groups. *Computational Statistics and Data Analysis*. 2007, Vol. 51:6582-6595. [doi.org/10.1016/j.csda.2007.03.007](https://doi.org/10.1016/j.csda.2007.03.007).

11. **Yang Y**, Halloran ME, Sugimoto J and Longini IM. Detecting Human-To-Human Transmission of Avian A(H5,N1) Influenza. *Emerging Infectious Disease*. 2007; 13:1348-1353. <https://doi.org/10.3201/eid1309.070111>.
12. Livingston EG, Cohn SE, **Yang Y**, Watts DH, Bardeguéz AD, Jones TB, Smith LM, Umbleja T and McComsey GA. Lipids & Lactate in HIV-1 Infected Pregnancies With/ Without Protease Inhibitor-Based Therapy. *Obstetrics and Gynecology*. 2007, Vol. 110:391-397. [doi.org/10.1097/01.AOG.0000271210.79340.4c](https://doi.org/10.1097/01.AOG.0000271210.79340.4c).
13. **Yang Y** and DeGruttola V. Resampling-based Multiple Testing Methods with Covariate Adjustment: Application to Investigation of Antiretroviral Drug Susceptibility. *Biometrics*. 2008; 64:329-336. [doi.org/10.1111/j.1541-0420.2007.00883.x](https://doi.org/10.1111/j.1541-0420.2007.00883.x).
14. **Yang Y**, Gilbert, P, Longini IM and Halloran ME. A Bayesian Framework for Estimating Vaccine Efficacy per Infectious Contact. *Annals of Applied Statistics*. 2008; 2:1409-1431. [doi.org/10.1214/08-AOAS193](https://doi.org/10.1214/08-AOAS193).
15. **Yang Y**, Halloran ME and Longini IM. A Bayesian Model for Evaluating Influenza Antiviral Efficacy in Household Studies with Asymptomatic Infections. *Biostatistics*. 2009; 10: 390-403. [doi.org/10.1093/biostatistics/kxn045](https://doi.org/10.1093/biostatistics/kxn045).
16. **Yang Y**, Sugimoto JD, Halloran ME, Basta NE, Chao DL, Matrajt L, Potter G, Kenah E and Longini IM. The Transmissibility and Control of Pandemic Influenza A (H1N1) Virus. *Science*. 2009; 326: 729-733. [doi.org/10.1126/science.1177373](https://doi.org/10.1126/science.1177373).
17. **Yang, Y**, Halloran, ME, Daniels M and Longini, IM. Modeling Competing Infectious Pathogens from a Bayesian Perspective: Application to Influenza Studies with Incomplete Laboratory Results. *Journal of the American Statistical Association*. 2010; 105:1310-1322. [doi.org/10.1198/jasa.2010.ap09581](https://doi.org/10.1198/jasa.2010.ap09581).
18. Sugimoto, JD, Borse, NN, Ta, ML, Stockman, LJ, Fischer, GE, **Yang, Y**, Halloran, ME, Duchin, JS and Longini, IM. The effect of age on transmission of clinical pandemic influenza A (H1N1) during an outbreak in a camp and households in Washington State, United States. *Epidemiology*. 2011; 22(2): 180-187. [doi.org/10.1097/EDE.0b013e3182060ca5](https://doi.org/10.1097/EDE.0b013e3182060ca5).
19. Wang Y, Feng Z, **Yang Y**, Self SG, Gao Y, Wakefield J, Wang L, Zhang J, Chen X, Yao L, Stanaway J, Wang Z, Yang W. Hand, Foot and Mouth Disease in China: Patterns of Spread during 2008-2009. *Epidemiology*. 2011; 22: 781-792. [doi.org/10.1097/EDE.0b013e318231d67a](https://doi.org/10.1097/EDE.0b013e318231d67a). (**Corresponding Author**).
20. **Yang Y**, Longini IM, Halloran ME and Obenchain V. A hybrid EM and Monte Carlo EM Algorithm and Its Application to Analysis of Transmission of Infectious Diseases. *Biometrics*. 2012; 68: 1238-1249. [doi.org/10.1111/j.1541-0420.2012.01757.x](https://doi.org/10.1111/j.1541-0420.2012.01757.x).
21. **Yang Y** and DeGruttola V. Resampling-based Methods for Testing Equality of Covariance/Correlation Matrices. *International Journal of Biostatistics*. 2012; 8(1): Article 13. [doi.org/10.1515/1557-4679.1388](https://doi.org/10.1515/1557-4679.1388).
22. Fang, L-Q., Li, X-L., Liu, K., Li, Y-J., Yao, H-W., Liang, S., **Yang, Y.**, Feng, Z-J., Gray, G. C. and Cao, W-C. Mapping spread and risk of avian influenza A (H7N9) in China. *Nature*

*Scientific Reports*. 2013; 3: Article 2722. [doi.org/10.1038/srep02722](https://doi.org/10.1038/srep02722).

23. Zhou Y-B, Wang Q-X, Liang S, Gong Y-H, Nie S-J, Nan L, Yang A-H, Liang Q, **Yang Y**, Song X-X, Jiang Q-W. HIV-, HCV-, and Co-Infections and Associated Risk Factors among Drug Users in Southwestern China: A Township-Level Ecological Study Incorporating Spatial Regression. *PLoS One*. 2014; [doi.org/10.1371/journal.pone.0093157](https://doi.org/10.1371/journal.pone.0093157).

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25. **Yang Y**, Halloran ME, Chen Y and Kenah E. A Pathway EM-Algorithm for Estimating Vaccine Efficacy with a Non-Monotone Validation Set. *Biometrics*. 2014; 70: 568-578. [doi.org/10.1111/biom.12173](https://doi.org/10.1111/biom.12173).

26. Sugimoto JD, Allen AL, Kenah EE, Halloran ME, Chowdhury F, Khan AI, LaRocque RC, **Yang Y**, Ryan ET, Qadri F, Calderwood SB, Harris JB and Longini IM. Household Transmission of *Vibrio cholerae* in Bangladesh. *PLoS Negl Trop Dis*. 2014; 8: e3314. [doi.org/10.1371/journal.pntd.0003314](https://doi.org/10.1371/journal.pntd.0003314).

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35. Fang L-Q, **Yang Y**, Jiang J-F, Yao H-W, Kargbo D, Li X-L, Jiang B-G, Kargbo B, Tong Y-G, Wang Y-W, Liu K, Kamara A, Dfafe F, Kanu A, Jiang R-R, Sun Y, Sun R-X, Chen W-J, Ma, M-J, Dean, NE, Thomas H, Longini IM, Halloran ME and Cao W-C. Transmission dynamics of Ebola virus disease and intervention effectiveness in Sierra Leone. *PNAS*. 2016; 113(16): 4488-4493. [doi.org/10.1073/pnas.1518587113](https://doi.org/10.1073/pnas.1518587113). (Co-first author)
36. Dean NE, Halloran ME, **Yang Y**, Longini IM. The transmissibility and pathogenicity of Ebola virus: a systematic review and meta-analysis of household secondary attack rate and asymptomatic infection. *Clinical Infectious Diseases*. 2016; 62(10): 1277-1286. [doi.org/10.1093/cid/ciw114](https://doi.org/10.1093/cid/ciw114).
37. Zhang R-S, Chen T-M, Ou X-H, Liu R-C, **Yang Y**, Ye W, Chen J-F, Yao D, Sun B-C, Zhang X-X, Zhou J-X, Sun Y, Chen F-M, Wang S-P. Clinical, epidemiological and virological characteristics of the first detected human case of avian influenza A(H5N6) virus. *Infection, Genetics and Evolution*. 2016; 40: 236-242. [doi.org/10.1016/j.meegid.2016.03.010](https://doi.org/10.1016/j.meegid.2016.03.010).
38. Chen W-J, Lai S-J, **Yang Y**, Liu K, Li X-L, Yao H-W, Li Y, Zhou H, Wang L-P, Mu D, Yin W-W, Fang L-Q, Yu H-J and Cao W-C. Mapping the distribution of anthrax in mainland China, 2005–2013. *PLoS Negl Trop Dis*. 2016; 10(4):e0004637. [doi.org/10.1371/journal.pntd.0004637](https://doi.org/10.1371/journal.pntd.0004637).
39. Rojas DP, Dean NE, **Yang Y**, Kenah E, Quintero J, Tomasi S, Ramirez EL, Kelly Y, Castro C, Carrasquilla G, Halloran ME and Longini IM. The epidemiology and transmissibility of Zika virus in Girardot and San Andres Island, Colombia, September 2015 to January 2016. *Eurosurveillance*. 2016; 21(28): pii=30283. [doi.org/10.2807/1560-7917.ES.2016.21.28.30283](https://doi.org/10.2807/1560-7917.ES.2016.21.28.30283).
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51. Ning P, Chen B, Cheng P, **Yang Y**, Schwebel D.C., Yu R., Deng J., Li S., Hu G. Effectiveness of an app-based intervention for unintentional injury among caregivers of preschoolers: protocol for a cluster randomized controlled trial. *BMC Public Health*. 2018; 18(1):865. [doi.org/10.1186/s12889-018-5790-1](https://doi.org/10.1186/s12889-018-5790-1).
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(corresponding author)
53. Porter M, Quillen D, Agana DF, Chacko L, Lynch K, Bielick L, Fu X-Q, **Yang Y** and Carek PJ. Are Patients Frequently Readmitted to the Hospital Different from the Other Admitted Patients? *Journal of American Board of Family Medicine*. 2019; 32(1):58-64. [doi.org/10.3122/jabfm.2019.01.180052](https://doi.org/10.3122/jabfm.2019.01.180052).



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mortality during 1990–2017: A global decomposition analysis. *PLoS Medicine*. 2020;17(6):e1003138. [doi.org/10.1371/journal.pmed.1003138](https://doi.org/10.1371/journal.pmed.1003138).

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## Under Review/Revision

1. Chen J-J, Lv C-L, Wang T, Wang Y-H, Che T-L, Xu Q, Hong X-G, Teng A-Y, Tian S, Zhang Y-Y, Liu M-C, Wang L-P, Hay SI, **Yang Y**, Fang L-Q, Liu W. Rodent-like small mammals and associated infections in China: a systematic review and spatial modelling analysis. (Co-corresponding author)

2. Li R-T, Cheng X-J, Schwebel DC, **Yang Y**, Ning P-S, Cheng P-X, Hu G-Q. Global deaths associated with population ageing between 1990 and 2019: Insights from a new decomposition method. *China CDC Weekly*.

## Work in progress

1. Song S, Madewell ZJ, Liu M-J, Miao Y, Xiang S, Huo Y, Chowdhurt A, Longini IM and **Yang Y**. A Systematic Review and Meta-Analysis on the Effectiveness of Bivalent mRNA Booster Vaccines against SARS-CoV-2.
2. Madewell ZJ, Wang J, Adams L, **Yang Y**. Interactions among Acute Respiratory Viruses in Puerto Rico, 2012-2022.
3. Liu M-J, Zhang W, Yang Y, Fang L-Q. Effectiveness of Chinese Vaccines in preventing Omicron-associated Death among hospitalized patients: An Observational Study.
4. Liu MJ, Jing QL and **Yang Y**. Adjusting for bias induced by surveillance threshold for institutional outbreak investigation. In preparation.
5. Liu MJ, Li H, Zhang AR, Fang LQ, Liu W, **Yang Y**. Genetic determinants for clinical outcomes in patients of Severe Fever Thrombocytopenia Syndrome. In preparation.
6. Jalali N, Zhang AR, Fang LQ, Li ZJ, **Yang Y**. The role of human mobility in the transmission of COVID-19 in Hubei Province, China. In preparation.
7. Jalali N, Liu MJ, Zhang AR, Fang LQ, **Yang Y**. A competing risks framework for estimating transmissibility of infectious agents with multiple transmission modes. In preparation.
8. Sugimoto J, **Yang Y**, Hosford J, Lauzardo M, Ahmedov S, Cooker RL, Halloran EM, Longini IM and Fennelly K. Re-defining super-spreading in tuberculosis. In preparation.
9. Tsang KL, Halloran ME, Rojas DP, Longini IM, **Yang Y**. Transmissibility of Zika disease and the impact of reporting bias in Colombia. In preparation.
10. **Yang Y**, Zhu Y-F, Li X-L and Fang L-Q. Re-visit SARS: Transmissibility, Natural History, and Seasonality. In preparation.
11. Zhu Y-F, **Yang Y** and Halloran ME. Model Selection in the Presence of High-Dimensional Missing Data with Application to Infectious Disease Data. In preparation.

## Book Chapters

Yang Y. (2020) Geographically weighted regression. In X. Chen & D. Chen (Eds.), *Statistical Methods for Global Health and Epidemiology: Principles, Methods and Applications* (pp. 277-316). Cham, Switzerland: Springer

## Conference Abstracts

### Regular talks

1. Yang Y. and Longini I.M.: New methods for the estimation of influenza antiviral agent efficacy. *Joint Statistical Meeting*, San Francisco, CA, 2003.
2. Yang Y. and Longini I.M.: Estimation of influenza antiviral agent efficacy. *International Biometric Society/Eastern North American Region Spring Meeting*, Tampa, FL, 2003.
3. Mulligan, K., Yang, Y., Wininger, D., Koletar, S., Parker, R.A., Alston-Smith, B., Basar, M. and Grinspoon, S.: Effects of Metformin and Rosiglitazone on Body Composition in HIV-Infected Patients with Hyperinsulinemia and Elevated Waist/Hip Ratio: A Randomized, Placebo Controlled Trial. *Conference on Retroviruses and Opportunistic Infections*, Denver, CO, 2006.



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5. Yang, Y. and DeGruttola, V.: Resampling-based Multiple Testing Methods with Covariate Adjustment: Application to Investigation of Antiretroviral Drug Susceptibility. *Workshop on Quantitative Methods for Research on Antiviral Resistance*, Boston, MA, 2006
6. Yang, Y., Halloran, M.E., Daniels, M. and Longini, I.M.: Modeling Competing Infectious Pathogens from a Bayesian Perspective: with Application to Influenza Studies with Incomplete Laboratory Results. *MFO workshop: Design and analysis of Infectious Disease Studies*, Mathematisches Forschungsinstitut Oberwolfach, Germany, 2009
7. Yang, Y., Halloran, M.E., Daniels, M. and Longini, I.M.: A Partial Monte carlo EM Algorithm for Analyzing Transmission of Infectious Diseases. *MIDAS Network Meeting*, Atlanta, GA, 2011
8. Yang Y.: Assessing the Transmissibility of TB and Risk Factors in Close Contact Groups. *MIDAS Network Meeting*, Austin, TX, 2013.

#### **Invited talks**

1. Yang, Y., Gilbert, P., Longini, I.M. and Halloran, M.E.: A Bayesian Framework for Estimating Vaccine Efficacy per Infectious Contact. *Disease Dynamics 2008*, University of British Columbia, Vancouver, British Columbia, 2008.
2. Yang, Y.: Statistical Analysis of Epidemics with Asymptomatic Infections and/or Co-circulating Pathogens. *US CDC*, Atlanta, GA, 2011.
3. Yang Y.: Transmissibility and control of avian influenza A (H7N9) virus. *Sichuan Provincial CDC*, Sichuan, China, 2013.
4. Yang Y.: Methods for estimating the dengue vaccine efficacy in cohort studies. *Zhongshan Municipal CDC*, Guangdong, China, 2014.
5. Yang Y.: Spatial-temporal modeling for surveillance data of multiple pathogens. *Workshop on modeling hand, foot and mouth disease sponsored by China CDC*, Beijing, China, 2015.
6. Yang Y. and Mingjin Liu: Statistical adjustment for reporting bias in surveillance data of infectious diseases. *2018 International Indian Statistics Association (IISA) International Conference on Statistics*, Gainesville, Florida.
7. Yang Y.: Modeling infectious diseases. School of Public Health, Shandong University, Jinan, Shandong Province, China, 2019.
8. Yang Y.: Modeling Transmission of Infectious Diseases. Workshop on Pedestrian Dynamics and Epidemic Modeling. Pensacola, FL 2020.
9. Yang Y.: Household Transmission of SARS-CoV-2: The Role of Presymptomatic and Asymptomatic Infectivity. American Society of Tropical Medicine and Hygiene 69<sup>th</sup> Annual Meeting, 2020.
10. Household Transmission of COVID-19 and Risk Factors for Susceptibility and Infectivity in Wuhan, the First Epicenter. 2021 ASA Florida Chapter Meeting, COVID-19

Panel Discussion, April 2, 2021.

11. Yang Y.: Inference on Vaccine Efficacies in the Presence of Missing Data. US CDC Statistical Advisory Group Seminar, April 29, 2021.

12. Statistical Adjustment for Reporting Bias in Surveillance Data of Infectious Diseases. Western North American Region (WNAR) of The International Biometric Society (IBS) 2021. June 15, 2021.

13. Understanding transmission dynamics of emerging infectious diseases from contact-tracing data. WebENAR. February 25, 2022.

14. Impacts of Nonpharmaceutical Interventions on Notifiable Infectious Diseases in China during the COVID-19 Pandemic. International Summer Institute for Graduate Students, Central South University, Changsha, China. July 19, 2022

15. Assessing transmissibility and associated risk modifiers of emerging infectious diseases from contact-tracing data. JSM, Washington D.C., August 11, 2022.

16. Interactions among acute respiratory viruses in urban China, 2009-2019. Georgia Statistics Day, Athens, GA, September 1, 2022.

## V. Teaching and Advising

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### Teaching

Institute	Course Number	Course Title	Semester, Year
Univ. of Florida	PHC7066	Large sample theory	Spring, 2012—2015
Univ. of Florida	PHC6937	Applied Survival Analysis	Fall, 2013
Univ. of Florida	PHC6092	Biostatistical Theory	Fall, 2015-2021
Univ. of Georgia	STAT4230/6230	Applied Regression	Fall, 2022
Univ. of Georgia	STAT6820	Statistical Inference	Spring, 2023

### Graduate Committee Activities (Selected)

Student	Topic	Home Department	Completion Date (* Expected)	Role
Shaolin Xiang	Joint inference of transmission and evolution of infectious pathogens	Statistics, UGA	2027*	Advisor
Yu Miao	Modeling nosocomial transmission antimicrobial-resistant pathogens	Statistics, UGA	2026*	Advisor
Mingjin Liu	Analytic Methods for Infectious Disease	Biostatistics	2022	Advisor

	Transmission Dynamics Based On Surveillance and Genetic Data			
Neda Jalali	Infectious Disease Modeling with Limited Surveillance Data	Biostatistics	2021	Advisor
Hasibul Hasan	Efficient Sampling in Bayesian Computing for Continuous-Time Infectious Disease Transmission in Close Contact Groups	Biostatistics	2022	Advisor
Ya Meng	HIV partner study and dengue vaccine efficacy estimation	Biostatistics	2015	Advisor
Alex Kirpich	Modeling cholera transmission in Haiti	Biostatistics	2015	Co-Advisor
Yifan Zhu	Model selection in the presence of high-dimensional data	Biostatistics	2015	Co-Advisor
Samson Grebremariam	Joint model of transmission, pathogenicity and immunology for dengue epidemics	Biostatistics	2015	Co-Advisor
Keerati Ponpetch	Environmental Determinants and Spatial Distribution of Schistosomiasis in Ethiopia	Environmental and Global Health	2020	Committee Member
Helena J. Chapman	Latent TB infection in Dominican Republic	Environmental and Global Health	2017	Committee Member
Xueying Tang	Bayesian Data Analysis under Shrinkage Priors	Statistics	2017	Committee Member
Guangyu Zhu	Likelihood-Based Sparse Partial least Squares	Statistics	2016	Committee Member
Mary N. Seraphin	Tuberculosis among Haitian immigrants in Florida	Epidemiology	2016	Committee Member

## VI. Services

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### Professional services

- Editor Board Member, *Infectious Medicine*, 2021—present
- Statistical Editor, *Open Forum Infectious Diseases*, 2023—present
- Academic Editor, *PLoS ONE*, 2011—present
- *Frontiers in Public Health*, Co-editor for the special collection on the research topic: “Updates on Clinical and Molecular Epidemiology of Tuberculosis”, *01 Sep 2022*–

### *Present*

Associate Editor, *Biometrics*, 2015—2021

- Referee for *Biometrics*, *Biostatistics*, *AOAS*, *American Journal of Epidemiology*, *Epidemics*, *PLoS Medicine*, *PLoS Computational Biology*, *British Medical Journal*, *Lancet* series journals, *Nature Communications*, *Science*, *Nature*, *Science Translational Medicine*, *PNAS*, *Vaccine*
- ENAR Regional Advisory Board, 2021—present
- WHO working group of vaccine trial design for Marburg virus, 2021

### Grants review panels

- DOE Office of Science: Biopreparedness Research Virtual Environment (BRaVE), Jun. 7-8, 2023
- NIH F18 Fellowships: Epidemiology and Population Sciences review panel, Nov. 3-4, 2022
- NIH F18 Fellowships: Epidemiology and Population Sciences review panel, March 24-25, 2022
- NIH IRAP study section review panel, Jul. 8-9, 2021
- NIH 2021/01 ZAI1 MSA-W (J1) 1 review panel for “Emergency Awards: Rapid Investigation of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019”, Aug. 27, 2020
- University of Florida Research Opportunity Seed Fund Review - Biomed Basic Committee, 2017
- Wellcome Trust proposal review. 2009

### Services at the University of Georgia

- Member, Colloquium Committee, 2022—
- Member, Computing Committee, 2022—
- Member, Faculty Review Committee, 2022—

### Services at the University of Florida

- Member, Admission Committee, 2014—present
- Chair, Exam Committee, 2019—present

## **VII. Grants, Contracts and Awards**

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### Ongoing Grants

- Challenge (PI: McKune) 7/1/2023 – 6/30/2025  
USAID: DEUX OEUFs: Cracking the potential of eggs to improve child growth and development  
Role: Co-PI

- U01 CK000670-01 9/30/2022 – 9/29/2025

CDC: Building mathematical modeling workforce capacity to support infectious disease and healthcare research

Role: Contact PI

  - U01 AI169375-01A1 9/2022 – 6/2025

NIAID: Developing TranStat: A user-friendly R package for the analysis of infectious disease transmission and control among close contacts.

Role: Contact PI

  - U54 OH011230 (PI: Morris) 9/30/2022 – 9/30/2028

CDC: *Southeastern and Coastal Center for Agricultural Health and Safety*

Role: Core Biostatistician

### Completed Grants

- R21 OH012114 (PI: Wu) 9/2/2021 – 8/31/2023

NIOSH: Occupational Inhalation Exposure to Infectious Respiratory Virus Aerosols in medical Facilities

Role: Co-Investigator

  - OPP1175487 (PI: Havelaar) 01/2020 - 06/2023

Bill & Melinda Gates Foundation: *Campylobacter Genomics and Environmental Enteric Dysfunction study*

Role: Co-Investigator

  - OPP1205215 (PI: Liang) 11/2018-06/2023

Bill&Melinda gates Foundation: *Exposure Assessment of Campylobacter infections in Rural Ethiopia*

Role: Co-Investigator

  - R01 AI126357 (PI: Morris) 7/1/2017 – 6/30/2022

NIH/NIAID: *Cholera transmission and evolution in Port-au-Prince, Haiti*

Role: Co-Investigator

  - R01 AI139761 (PI: Dean) 07/01/2018-06/30/2023

NIH/NIAID: *Design and Analysis of Vaccine Trials for Emerging Infectious Disease Threats*

Role: Co-Investigator

  - R56 AI148284 (PI: Longini) 09/2020 - 08/2021

NIH: Mathematical and Statistical Methods for the Control of Global Infectious Disease Threats

Role: Co-Investigator

  - RAPID 2034364 (PI: Li, Ninghui) 7/1/2020 – 6/30/2021

NSF: *Collaborative: PPSRC: Privacy-Preserving Self-Reporting for COVID-19*

Role: Co-PI

  - R01 AI120997 (PI: Gordon) 01/2017 - 12/2021

NIH: Dynamics of Influenza Transmission in Nicaraguan Households

Role: Co-Investigator

  - R21 AI119773 7/2015 – 6/2017

NIH/NIAID : *Spatial-Temporal Modeling for Surveillance Data of Multiple Pathogens.*

Role: PI

▪ R01 AI116770 (PI: Kenah) 1/2016 - 12/2020  
NIH/NIAID: *Regression, Phylogenetics, and Study Design in Infectious Disease Epidemiology*

▪ R37 AI32042-19 Halloran (PI) 4/1992 – 5/2020  
NIH/NIAID: *Methods for Evaluating Vaccine Efficacy.*

Role: Co-Investigator

▪ U54 GM111274 Halloran (PI) 9/2014 – 6/2019  
NIH/NIGMS: *Modeling of Infectious Disease Agent Study Centers for Excellence.*

Role: Co-Investigator

▪ U01 GM070749-07 Halloran Longini (MPI) 5/2004 – 4/2014  
NIH/NIGMS: *Containing Bioterrorist and Emerging Infectious Diseases*

Role: Co-Investigator

▪ R01 A0I51164 07A1 DeGruttola (PI) 12/2008 – 11/2011  
NIH/NIAID: *Methods for Long-Term Follow-Up of HIV-Infected Patients*

Role: PI of subcontract

▪ Corporation-funded research Halloran (PI) 11/2011 – 8/2012  
Medimmune Inc.: *Efficacy of the Live Attenuated Influenza Vaccine in a cohort study*

Role: PI of subcontract

▪ Contract Longini (PI) 7/2014 - 6/2015  
County of Los Angeles, Department of Public Health

*Using TranStat for Emerging Infectious Diseases*

Role: Co-Investigator

## VIII. Awards and Honors

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- 2017 Term Professorship, School of PPHP, Univ. of Florida
- 2012 Best paper of the year, School of PPHP, Univ. of Florida
- 2000 — 2004 Graduate fellowship, Emory University
- 1999 — 2000 Graduate fellowship, Worcester Polytechnic Institute
- 1997 Excellent college student with outstanding scholarship
- 1997 Outstanding college student in Guangdong Province, China
- 1997 P&G Scholarship
- 1997 Honorable mention in the international Mathematical Contest in Modeling (MCM)
- 1996 Excellent college student with first-place scholarship
- 1995 Excellent college student with second-place scholarship