

# CURRICULUM VITAE

Yang Yang

## I. Personal Information

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Department of Statistics (706) 542-3453 (office)  
Franklin College of Arts and Sciences (706) 542-3391 (fax)  
University of Georgia yang.yang4@uga.edu  
310 Herty Drive  
Athens, GA 30602

## 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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### 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

### 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**, Longini 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, Bardeguez 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).

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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).

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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).
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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).
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29. Zhang J-N, Kang Y-C, **Yang Y**, and Qiu P-H. Statistical Monitoring of the Hand, Foot and Mouth Disease in China. *Biometrics*. 2015; 71(3):841-850. [doi.org/10.1111/biom.12301](https://doi.org/10.1111/biom.12301).
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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).
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mainland China. *Ticks and Tick-borne Diseases*. 2017; 8(4): 631-639.

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incidence in Guangzhou, southern China, 2006—2014. *BMC Infectious Diseases*. 2017;17:13.

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disease in military recruits: 1991-2017. *Epidemiol Infect*. 2018 Oct;146(14):1854-1860.

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Workers at Live Poultry Markets, China, 2013–2016. *Emerg Infect Dis*. 2018;24(7):1246-1256.

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population-based survey data. *Accident Analysis and Prevention*. 2018;113:179-186.

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Effectiveness of an app-based intervention for unintentional injury among caregivers of preschoolers: protocol for a cluster randomized controlled trial. *BMC Public Health*. 2018;

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China. *Epidemiology*. 2018; 29(5):675–683. [doi.org/10.1097/EDE.0000000000000855](https://doi.org/10.1097/EDE.0000000000000855).



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### Submitted/Under Review

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4. Sarkar S, Zhou Y, Yang Y, Qiu P. Online Monitoring and Early Detection of Influenza Incidence Rates Using Exponentially Weighted Spatial LASSO: A Case Study in China During 2014-2020.

### Work in progress

1. Madewell ZJ, Wang J, Adams L, Yang Y. Interactions among acute respiratory viruses in Puerto Rico, 2013–2023.
2. Liu M-J, Fang L-Q, Yang Y. Statistical adjustment for surveillance bias in infectious disease outbreak investigations and its application to school outbreaks of influenza in China. In preparation.
3. Grijalva CG, Zhu Y, Morrissey KG, Stockwell MS, Maldonado Y, McLean H, Lutrick K, Bowman NM, Rao S, Salvatore P, Izurieta H, Schmitz J, Hart K, Battan-Wraith S, Merrill L, McLaren SH, Sano E, Sarnquist C, Goodman S, Petrie J, Ledezma K, Pryor K, Bullock A, Yang A, Biddle J, Johnson S, Smith-Jeffcoat S, Asturias E, Lin J, Ellingson KD, Belongia EA, Govindaranjan P, Vargas C, Olivo V, Yang Y, Luring A, Halasa N, Chappel J, Keipp Talbot H, Rolfes MA, Mellis A & Respiratory Virus Transmission Network Study Group. Role of immunity in the transmission of SARS-CoV-2 infections in households: evidence from case-ascertained studies.
4. 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.
5. Liu MJ, Jing QL and **Yang Y**. Adjusting for bias induced by surveillance threshold for institutional outbreak investigation. In preparation.
6. 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.

7. Jalali N, Miao Y, 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.
8. 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.
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.

## 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.
4. Shikuma, C.M., Yang, Y., Meyer, W.A., Glesby, M., Tashima, K.T., Ribaud, H., Webb, N., Bastow, B., Kuritzkes, D.R., and Gulick, R.M.: Metabolic Analyses within A5095: Effect of Efavirenz against an All-Nucleoside/Nucleotide Background. *Conference on Retroviruses and Opportunistic Infections*, Denver, CO, 2006.
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. Joint Statistical Meeting, 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.
17. Sparse Gaussian network model for single-cell RNA-seq data. ICSA China Conference, July 2, 2023
18. Statistical inference for infectious disease outbreak data from biased surveillance. Joint

Statistical Meeting, Toronto, Canada, August 8, 2023.

19. The power, limitation and future of statistical modeling to understand epidemics and pandemics. Keynote Speaker. The 1<sup>st</sup> International Conference of Public Health and Allied Health Sciences, Chonburi, Thailand, July 19, 2024.

## 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

### Post-doctoral Mentoring

Mentee	Topic	Home Department	Period	Current Position
Tim Tsang	Household transmission of norovirus; Effects of infection history on dengue transmission dynamics	Biostatistics, Univ. of Florida	2016-2019	Assistant professor, Hong Kong University
Mingjin Liu	Statistical analysis of outbreak data from biased surveillance; Phylodynamics of Severe Fever with Thrombocytopenia Syndrome Virus	Statistics, UGA	2024-2025	

### 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	Statistics, UGA	2026*	Advisor

	antimicrobial-resistant pathogens			
Mingjin Liu	Analytic Methods for Infectious Disease Transmission Dynamics Based on Surveillance and Genetic Data	Biostatistics	2022	Advisor
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

### Visiting PhD Students

Mentee	Home Institute	Topic	Home Department	Period
Anran Zhang	Shandong University, China	Epidemiology and phylogenetics of MERS-CoV	Biostatistics, Univ. of Florida	9/2019-9/2020
Jianjiu Chen	Hong Kong University	Evaluating effectiveness of smoking cessation programs in Hong Kong	Biostatistics, Univ. of Florida	6/2019-11/2019

## VI. Services

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### Professional services

- Statistical Advisory Committee, Nature Medicine, 2024—present
- 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”, *Sep 2022–March 2023*

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
- Organizer of invited session “Statistical Advances in Surveillance, Analysis and Forecasting of Emerging Infectious Diseases” at Joint Statistical Meeting, 2024
- WHO working group of vaccine trial design for Marburg virus, 2021

### Grants review panels

- NIH, Population and Public Health Approaches to HIV/AIDS (PPAH), Mar. 11-12, 2024
- DOE Office of Science: Biopreparedness Research Virtual Environment (BRaVE), Jun. 7-8, 2023
- NIAID R16 grants: Support for Research Excellence First Independent Research (SuREFirst) Award, Mar. 10, 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
- Welcome Trust proposal review. 2009

#### Services at the University of Georgia

- Department, Colloquium Committee, member, 2022—2023
- Department, Computing Committee, member, 2022—2023
- Department, PhD Qualify Exam Theory, 2023—2024
- Department, Faculty Review Committee, member (2022—2024), chair (2024—2025)
- College, Faculty Senate, 2024—
- College, Physical & Mathematical Science P&T Committee, 2024—

#### Services at the University of Florida

- Department, Admission Committee, Member, 2014—2022
- Department, Exam Committee, Chair, 2019—2022

## VII. Grants, Contracts and Awards

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### Ongoing Grants

- DMS-2424302 (PI: Ngonghala) 9/1/2024 – 8/31/2027  
NSF: Collaborative Research: eMB: Integrated Hybrid Mathematical Modeling for Schistosomiasis Elimination  
Role: Co-PI
- 75D30121C11656 (PI: Grijalva) 9/1/2023 – 3/31/2025  
CDC: A New Network of Household Transmission Studies for Vaccine Effectiveness Evaluations  
Role: Co-Investigator
- 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 CK000696-02 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