

CURRICULUM VITAE

Yang Yang

I. Personal Information

Department of Biostatistics (352) 294-1933 (Biostat)
College of Public Health and Health Professions & College of Medicine
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II. Education

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

Associate Professor, July 2016 — Present

Assistant Professor, November 2011 — June 2016

Department of Biostatistics, University of Florida

Co-investigator on the two NIH-funded grants, R37 AI32042 and U54-GM111274, and PI on R21 AI119773. Research areas: likelihood or Bayesian modeling framework for estimating transmissibility and intervention efficacies for infectious diseases in the presence of high-dimensional missing data and selection bias; Simultaneous modeling of longitudinal immunological responses and transmission of HIV within discordant partner pairs; Spatial modeling of multiple enteroviruses responsible for the hand, foot, and mouth disease epidemics in China.

Affiliated Investigator, November 2011 — Present

Assistant Member, November 2010 — October 2011

Staff Scientist, July 2006 — October 2010

Fred Hutchinson Cancer Research Center

Co-investigator on two NIH-funded grants, R01-AI32042 (Methods for Evaluating Vaccine Efficacy) and U01-GM070749 (Containing Bioterrorist and Emerging Infectious Diseases), Investigating statistical methods for modeling transmission and control of infectious diseases such as influenza, smallpox and HIV, and evaluating efficacies of interventions such as vaccine and antiviral agents.

Research Associate, September 2004 — June 2006

Center for Biostatistics in AIDS Research (CBAR), Harvard University.

Senior statistician in the Statistical and Data Analysis Center of the Adult AIDS Clinical Trial Groups. Providing statistical support for AIDS clinical trials including protocol development, data and safety monitoring, analysis plan development and data analysis.

Recent major projects with full or partial involvement:

- A5224S: Long-Term Metabolic Assessment in Subjects Treated with Tenofovir/Emtricitabine or Abacavir/Lamivudine along with either Efavirenz or Atazanavir with Ritonavir.
- A5082: A Randomized, Double-Blinded, Placebo-Controlled Study of Metformin and Rosiglitazone, Alone or in Combination, in HIV-Infected Subjects with Hyperinsulinemia and Elevated Waist/Hip Ratio.
- A5095: Phase III, Randomized, Double-Blinded Comparison of Three Protease Inhibitor-Sparing Regimens for the Initial Treatment of HIV Infection.
- A5084: Evaluation of Metabolic Complications Associated with Antiretroviral Medications in HIV-Infected Pregnant women.

Research Assistant, September 2001 — August 2004

Department of Biostatistics, Emory University.

Supervisor: Dr. Ira Longini and Dr. Elizabeth Halloran.

Investigating stochastic models and simulations for influenza, HIV and smallpox epidemics; estimating per-contact transmission probability of the diseases and the efficacy of influenza antiviral agent and HIV vaccine; exploring trial design issues.

Research Assistant, May. 2001 — Aug. 2001

Department of Biostatistics, Emory University.

Supervisor: Dr. Amita Manatunga.

Developing frailty models for survival times and realizing PR algorithm; exploring proportional hazard models and proportional odds models for grouped survival times.

Research Assistant, Jun. 2000 — Aug. 2000

Department of Biostatistics, Emory University

Supervisor: Azhar Nizam (Senior Associate)

Involved in the project “Epidemiology & Ecology of Vibrio Cholera in Bangladesh”;

modeling cholera count data.

IV. Scholarship

Publications in refereed journals

1. Halloran, ME, Longini, IM, Nizam, A and **Yang Y**. Containing Bioterrorist Smallpox. *Science*, 2002; 298: 1428-1432.
2. Longini IM, Halloran ME, Nizam A and **Yang Y**. Containing Pandemic Influenza with Antiviral Agents. *American Journal of Epidemiology*, 2004; 159: 623-633.
3. Fu, HZ, **Yang Y** and Yao, YX. A Mathematical Model in Ranking Tax Credibility of Entities. *Mathematics in Practice and Theory* (China). 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.
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.
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.
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.
8. Shikuma CM, **Yang Y**, Meyer WA, Glesby M, Tashima KT, Ribaud 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.
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, Vol. 1:211-228. (PMC2680309)
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.
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.
12. Livingston EG, Cohn SE, **Yang Y**, Watts DH, Bardeguet 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.
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.

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. (PMC2630256)
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. (PMC2733175, PMID:19202152)
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.
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.
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.
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 (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. PMID: 22506893
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.
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.
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: 10.1371/journal.pone.0093157.
24. Tran CH, Sugimoto DJ, Pulliam JRC, Ryan KA, Myers PD, Castleman JB, Doty R, Johnson J, Stringfellow J, Kovacevich N, Brew J, Cheung LL, Caron B, Lipori G, Harle CA, Alexander C, **Yang Y**, Longini MI, Halloran ME, Morris JG and Small PA. School-located influenza vaccination reduces community risk for influenza-like illness emergence care visits. *PLoS One*. 2014; doi: 10.1371/journal.pone.0114479.
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.
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.
27. **Yang Y**, Zhang Y-P, Fang L-Q, Halloran ME, Ma M-J, Liang S, Kenah E, Britton T, Chen E-F, Hu J-Y, Tang F-Y, Cao W-C, Feng Z-J, Longini IM. Household Transmissibility of Avian Influenza A (H7N9) Virus. *Eurosurveillance*. 2015; 20(10):pii=21056.

28. Yao H-W, **Yang Y**, Liu K, Li X-L, Zuo S-Q, Sun R-X, Fang L-Q and Cao W-C. The spatiotemporal expansion of human rabies and its probable explanation in mainland China, 2004-2013. *PLoS Negl Trop Dis*. 2015; DOI: 10.1371/journal.pntd.0003502.
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.
30. Ma M-J, **Yang Y**, Wang H-B, Zhu Y-F, Fang L-Q, An X-P, Wan K-L, Whalen C.C., Yang X-X, Lauzardo M., Zhang Z-Y, Cao J-F, Tong Y-G, Dai E-H and Cao W-C. Transmissibility of tuberculosis among school contacts: an outbreak investigation in a boarding middle school, China. *Infection, Genetics and Evolution*. 2015; DOI:10.1016/j.meegid.2015.03.001 (Co-First Author).
31. Cao W-C, Liu K, Zhou H, Sun R-X, Yao H-W, Li Y, Wang L-P, Mu D, Li X-L, **Yang Y**, Gray G, Yin W-W, Fang L-Q, Yu H-J Yu, and Cui N. A National Assessment of the Epidemiology of Severe Fever with Thrombocytopenia Syndrome, China. *Nature Scientific Report*. 2015; 5:Article 9679.
32. Fang L-Q, Liu K, Li X-L, Liang S, **Yang Y**, Yao H-W, Sun R-X, Sun Y, Chen WJ, Zuo S-Q, Ma M-J, Li H, Jiang J-F, Liu W, Yang XF, Gray G, Krause PJ and Cao W-C. Emerging tick-borne infections in mainland China: an increasing public health threat. *Lancet Infectious Diseases*. 2015; 15:1467-79.
33. Kirpich A, Weppelmann TA, **Yang Y**, Ali A, Morris JG and Longini IM. Cholera transmission in Ouest Department of Haiti: dynamic modeling and the future of the epidemic. *PLoS Negl Trop Dis*. 2015; 9(10): e0004153. DOI: 10.1371/journal.pntd.0004153.
34. Li X-L, **Yang Y**, Sun Y, Chen WJ, Sun R-X, Liu K, Ma M-J, Liang S, Yao H-W, Gray G, Fang L-Q and Cao W-C. Risk distribution of human infections with avian influenza H7N9 and H5N1 virus in China. *Nature Scientific Report*. 2015; 5: article number 18610. doi:10.1038/srep1861.
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: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: 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 FM, 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: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.
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.

40. Sun R-X, Lai S-J, **Yang Y**, Li X-L, Liu K, Yao H-W, Zhou H, Li Y, Wang L-P, Mu D, Yin W-W, Fang L-Q, Yu H-J and Cao W-C. Mapping the distribution of tick-borne encephalitis in mainland China. *Ticks and Tick-borne Diseases*. 2017; 8(4): 631-639.
41. Ngwa MC, Liang S, Kracalik IT, Morris L, Blackburn JK, Mbam LM, Baonga Ba Pouth SF, Teboh A, **Yang Y**, Arabi M, Sugimoto JD and Morris JG. Cholera in Cameroon, 2000-2012: Spatial and Temporal Analysis at the Operational (Health District) and Sub Climate Levels. *PLoS Negl Trop Dis*. 2016; 10(11):e0005105.
42. Kirpich A, Weppelmann TA, **Yang Y**, Morris JG, Jr., Longini IM, Jr. (2017) Controlling cholera in the Ouest Department of Haiti using oral vaccines. *PLoS Negl Trop Dis* 11(4):e0005482.
43. Sun Y, Wei Y-H, **Yang Y**, Ma Y, de Vlas SJ, Yao H-W, Huang Y, Ma M-J, Liu K, Li X-N, Li X-L, Zhang W-H, Fang L-Q, Yang Z-C and Cao W-C. Rapid increase of scrub typhus incidence in Guangzhou, southern China, 2006—2014. *BMC Infectious Diseases*. 2017;17:13. doi:10.1186/s12879-016-2153-3.
44. **Yang, Y**, Meng, Y, Halloran, ME & Longini, IM. Dependency of vaccine efficacy on pre-exposure and age: a closer look at a tetravalent dengue vaccine. *Clinical Infectious Diseases*. 2017; doi:10.1093/cid/cix766.
45. Ma M, Liu C, Wu M, Zhao T, Wang G, **Yang Y**, et al. Influenza A(H7N9) Virus Antibody Responses in Survivors 1 Year after Infection, China, 2017. *Emerg Infect Dis*. 2018;24(4):663-672. <https://dx.doi.org/10.3201/eid2404.171995>.
46. Porter M, Hagan H, Klassen RA, **Yang Y**, Seehusen D and Carek PJ. Burnout and resiliency among family medicine program directors. *Family medicine*. 2018; 50(2):106-12.
47. Ma M-J, Zhao T, Chen S-H, Xia X, Yang X-X, Wang G-L, Fang L-Q, Ma G-Y, Wu M-N, Qian Y-H, Dean NE, Yang Y, Lu B, and Cao W-C. Avian Influenza A Virus Infection among Workers at Live Poultry Markets, China, 2013–2016. *Emerg Infect Dis*. 2018;24(7):1246-1256. <https://dx.doi.org/10.3201/eid2407.172059>.
48. Ning P, Cai M, Cheng P, Zhang Y, Schwebel DC, **Yang Y**, Zhang W, Cheng X, Gao Y, Ling X and Hu G. Trends in injury morbidity in China, 1993-2013: A longitudinal analysis of population-based survey data. *Accident Analysis and Prevention*. 2018;113:179-186.
49. Tsang, TK, Chen, T-M, Longini, IM, Halloran, ME, Wu, Y, & **Yang Y**. Transmissibility of Norovirus in Urban vs. Rural Households: Observations from a Large Community Outbreak in China. *Epidemiology*. 2018; 29(5):675–683. (corresponding author)
50. 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: 10.3122/jabfm.2019.01.180052
51. Tang X-Y, **Yang Y**, Yu H-J, Liao Q-H, Bliznyuk N. A Spatio-Temporal Modeling Framework for Surveillance Data of Multiple Infectious Pathogens with Small Laboratory Validation Sets. *Journal of the American Statistical Association*. 2019; Accepted. (corresponding author)
52. Tsang KL, Ghebremariam S, Gresh L, Gordon A, Halloran ME, Katzelnick LC, Rojas DP, Kuan G, Balmaseda A, Sugimoto J, Harris E, Longini IM, **Yang Y**. Effects of Infection History on Dengue Virus Infection and Pathogenicity. *Nature Communications*. 2019; Accepted.

(corresponding author)

53. Kim YY, Lew JF, Keith B, Telisma T, Nelson EJ, Brantly AC, Chavannes S, Anilis G, **Yang Y**, Liu M-J, Alam MT, Rashid MH, Morris JG, Madsen VE and De Rochars B. Acute Respiratory Illness in Rural Haiti. *International Journal of Infectious Diseases*. 2019; Accepted. doi.org/10.1016/j.ijid.2019.02.003

54. Ning P-S, Gao D-Y, Cheng P-X, Schwebel D, Wei X, Tan L-H, Xiao W-X, He J-Y, Fu Y-H, Chen B, **Yang Y**, Deng J, Wu Y, Yu R-H, Li S-K, Hu G-Q. Framework for developing an app-based parenting intervention for unintentional injury among caregivers of Chinese children ages 0-6 years: a mixed-method study. *J. Med. Internet Research*. Accepted. 2019.

Work in progress

1. 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.
2. Tsang KL, Halloran ME, Rojas DP, Longini IM, **Yang Y**. Transmissibility of Zika disease and the impact of reporting bias in Colombia.
3. Yang Y, Kenah E, Fang L-Q, Zhang Y-P, Halloran ME, Ma M-J, Liang S, Britton T, Chao D, Liu K, Li X-L, Chen E-F, Hu J-Y, Tang F-Y, Cao W-C, Feng Z-J and Longini IM. Socio-environmental risk factors and control of avian influenza A (H7N9) virus. In preparation.
4. Yang Y, Zhu Y-F, Li X-L and Fang L-Q. Re-visit SARS: Transmissibility, Natural History, and Seasonality. In preparation.
5. 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., Ribaldo, 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.: Spatio-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.

V. Teaching and Advising

Teaching

Course Number	Course Title	Dates
PHC7066	Large sample theory	Spring, 2012—2015
PHC6937	Applied Survival Analysis	Fall, 2013
PHC6092	Biostatistical Theory	Fall, 2015

Graduate Committee Activities

Student	Topic	Home Department	Completion Date	Role
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
Mary N. Seraphin	Tuberculosis among Haitian immigrants in Florida	Epidemiology	2016	Committee Member
Helena J. Chapman	Latent TB infection in Dominican Republic	Environmental and Global Health	-	Committee Member

VI. Services

Professional Services

- Academic Editor, PLoS ONE, 2011—present
- Associate Editor, Biometrics, 2015—present
- Referee for Biometrics, Biostatistics, AOAS, American Journal of Epidemiology, Epidemics, PLoS Medicine, PLoS Computational Biology, British Medical Journal, Scientific Report, Vaccine

Services at the University of Florida

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

VII. Grants, Contracts and Awards

Ongoing Grants

- 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

- R01 AI116770 (PI: Kenah) 1/2016 - 12/2020

Regression, Phylogenetics, and Study Design in Infectious Disease Epidemiology

Role: Co-Investigator

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

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

Role: Co-Investigator

- OPP1205215 (Liang) 11/26/2018-11/25/2020

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

Role: Co-Investigator

Completed grants

- R21 AI119773 7/2015 – 6/2017

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

Role: PI

- U01 GM070749-07 Halloran Longini (MPI) 5/2004 – 4/2014

NIH/NIGMS: Containing Bioterrorist and Emerging Infectious Diseases

Role: Co-Investigator

- R01 A0151164 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

- 2017 Term Professorship, School of PHHP, Univ. of Florida
- 2012 Best paper of the year, School of PHHP, 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