

# MICHAEL G. HUDGENS

## Curriculum Vitae

Department of Biostatistics  
Gillings School of Global Public Health  
University of North Carolina at Chapel Hill  
3101-D McGavran-Greenberg  
Chapel Hill, NC 27599  
Phone: 919 966 7253

Email: mHUDGENS@bios.unc.edu

### Education

- 2000 PhD, Biostatistics, Emory University
- 1996 MS, Mathematics, University of Florida (Graduated Honors)
- 1994 BS, Mathematics, University of Florida (Graduated Honors)

### Professional Experience

- 2023-Present Chair, Department of Biostatistics, UNC
- 2021-2023 Associate Chair, Department of Biostatistics, UNC
- 2016-Present Professor, Department of Biostatistics, UNC
- 2010-Present Director, Biostatistics Core, Center for AIDS Research, UNC
- 2006-2015 Associate Professor, Department of Biostatistics, UNC
- 2007-2008 Associate Director, Biostatistics Core, Center for AIDS Research, UNC
- 2004-2006 Assistant Professor, Department of Biostatistics, UNC
- 2000-2004 Staff Scientist, Program in Biostatistics, Fred Hutchinson Cancer Research Center
- 2000-2004 Visiting Scholar, Department of Biostatistics, University of Washington

### Honors

- 2023 John E. Larsh, Jr. Award for Mentorship, UNC Gillings School of Global Public Health
- 2019 Kutner Distinguished Alumni Award, Emory Dept. of Biostatistics and Bioinformatics
- 2019 Research Mentor of Kupper Dissertation Publication Award
- 2015 McGavran Award for Excellence in Teaching, UNC Gillings School of Global Public Health
- 2012 Elected Fellow, American Statistical Association
- 2012 Delta Omega Faculty Award
- 2011 Research Mentor of Kupper Dissertation Publication Award
- 2011 Charles C. Shepard Science Award, Centers for Disease Prevention and Control
- 2006 Developmental Award, UNC Center for AIDS Research
- 2004 Young Investigator Award, Section on Statistics in Epidemiology, American Statistical Association
- 2000 ENAR Distinguished Student Paper Award
- 1997-2000 NIAID AIDS Training Grant Fellowship, Emory University
- 1994-1995 Graduate Teaching Assistantship, Department of Mathematics, University of Florida
- 1990-1994 Florida Undergraduate Scholarship, University of Florida

## Bibliography

*Peer-reviewed Publications* (\* advisee)

1. SJ Alexandria\*, **MG Hudgens**, AE Aiello. Assessing Intervention Effects in a Randomized Trial within a Social Network. *Biometrics*, In press.
2. SR Cole, PN Zivich, JK Edwards, BE Shook-Sa, **MG Hudgens**. Sensitivity Analyses for Means or Proportions with Missing Outcome Data. *Epidemiology*, In press.
3. M Jetsupphasuk\*, **MG Hudgens**, H Lu, SR Cole, ..., JJ Eron. Optimizing Treatment for Human Immunodeficiency Virus to Improve Clinical Outcomes Using Precision Medicine. *American Journal of Epidemiology*, In press.
4. Renson A, **Hudgens M**, Keil A, Zivich P, Aiello A. Identifying and estimating effects of sustained interventions under parallel trends assumptions. *Biometrics*, In press.
5. S Rosin\*, BE Shook-Sa, SR Cole, **MG Hudgens**. Estimating SARS-CoV-2 Seroprevalence. *JRSS-A*, In press.
6. B Sanusi\*, J Cai, **MG Hudgens**. Nonparametric Estimation of Marked Survival Data in the Presence of Dependent Censoring. *Stat in Med*, In press.
7. Spees LP, Biddell CB, Smith JS, Des Marais AC, **Hudgens MG**, Sanusi B\*, Jackson S, Brewer NT, Wheeler SB. Cost-effectiveness of human papillomavirus (HPV) self-collection intervention on cervical cancer screening uptake among underscreened US persons with a cervix. *Cancer Epidemiol Biomarkers Prev*, In press.
8. A Wahl, W Yao, B Liao, M Chateau, ..., **MG Hudgens**, ..., J Victor Garcia. A germ-free humanized mouse model to evaluate the role of resident microbiota in infection by human-specific pathogens. *Nature Biotechnology*, In press.
9. JY Yang, JL Lund, MJ Funk, **MG Hudgens**, JD Lewis, MD Kappelman. Utilization of Treat-to-Target Monitoring Colonoscopy after Treatment Initiation in the US-Based Study of a Prospective Adult Research Cohort with Inflammatory Bowel Disease (SPARC IBD). *American Journal of Gastroenterology*, In press.
10. SR Cole, JK Edwards, A Breskin, S Rosin\*, PN Zivich, BE Shook-Sa, **MG Hudgens**. Illustration of Two Fusion Designs and Estimators [with commentary and rejoinder]. *American Journal of Epidemiology*, 192:467–474, 2023.
11. DeMonte JB\*, McCumber MC, Slye N, Amico KR, Arnold EM, Comulada WS, Hayati Rezvan P, Hightow-Weidman LB, Muessig KE, Nichols SL, Sanchez TH, Shook-Sa BE, Swendeman D, Valencia RK, **Hudgens MG**. Adolescents living with or at risk for HIV: a pooled descriptive analysis of studies from the ATN. *Journal of Adolescent Health*, 72(5):712-721, 2023.
12. J Fix, N Vielot, JL Lund, DJ Weber, JS Smith, MG Hudgens, S Becker-Dreps. Patterns of use of recombinant zoster vaccine among commercially-insured immunocompetent and immunocompromised adults 50-64 years old in the United States. *Vaccine*, 41 (1), 49–60, 2023.
13. GW Harper, EM Cherenack, N Slye, L Jadwin-Cakmak, **M Hudgens**. Pilot Trial of a Critical Consciousness Based Intervention for Black Young Gay and Bisexual Men Living with HIV: Mobilizing Our Voices for Empowerment (MOVE). *Journal of Racial and Ethnic Health Disparities*, 10 (1), 64–82, 2023.
14. JC Lindsey, **M Hudgens**, AH Gaur, KJ Horvath, R Dallas, B Heckman, M Mueller Johnson, KR Amico. Electronic dose monitoring device patterns in youth living with HIV enrolled in an adherence intervention clinical trial. *JAIDS*, 92(3):231–241, 2023.
15. Pretsch PK, Spees LP, Brewer NT, **Hudgens MG**, Sanusi B, Rohner E, Miller EM, Jackson S, Barclay L, Carter A, Wheeler SB, Smith JS. (2023). Effect of human papillomavirus (HPV) self-collection on cervical cancer screening uptake among low-income, under-screened women: The My Body, My Test Phase-3, Open Label Randomized Clinical Trial. *The Lancet Public Health*, 8(6):e411-e421, 2023.
16. NE Rosenberg, BE Shook-Sa, M Liu\*, ..., **MG Hudgens**, ..., BH Chi. Adult HIV-1 incidence across 15 high-burden countries in sub-Saharan Africa from 2015-2019: pooled nationally representative estimates. *Lancet HIV*, 10(3):e175–e185, 2023.
17. KR Amico, JC Lindsey, **M Hudgens**, ..., AH Gaur for the TERA Study Team. Randomized

- controlled trial of a remote coaching m-health adherence intervention in youth living with HIV. *AIDS and Behavior*, 26:3897–3913, 2022.
18. GJ Bell\*, V Goel, P Essone, ..., **M Hudgens**, ..., M Emch. Malaria Transmission Intensity Likely Modifies RTS,S/AS01 Efficacy Due to a Rebound Effect in Ghana, Malawi, and Gabon. *The Journal of Infectious Diseases*, 226(9):1646–1656, 2022.
  19. A Bukowski\*, C Hoyo, **MG Hudgens**, WR Brewster, F Valea, RC Bentley, AC Vidal, RL Maguire, J Schmitt, SK Murphy, KE North, JS Smith. Extended human papillomavirus genotyping to predict progression to high-grade cervical precancer. *Cancer Epidemiology, Biomarkers & Prevention*, 31(8):1564–1571, 2022.
  20. S Chakladar\*, SP Rosin\*, **MG Hudgens**, ME Halloran, JD Clemens, M Ali, ME Emch. Inverse Probability Weighted Estimators of Vaccine Effects Accommodating Partial Interference and Censoring. *Biometrics*, 78 (2), 777–788, 2022.
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  24. X Li\*, S May, IM Trumble\*, NM Archin, **MG Hudgens**. Paired serial limiting dilution assays. *Statistics in Medicine*, 41(24):4809–4821, 2022.
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  30. S Reifeis\*, **MG Hudgens**. On Variance of the Treatment Effect in the Treated Using Inverse Probability Weighting *American Journal of Epidemiology*, 91 (6), 1092–1097, 2022.
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  45. SD Falcinelli, KW Kilpatrick\*, J Read, R Murtagh, B Allard, S Ghofrani, J Kirchherr, KS James, E Stuelke, C Baker, **MG Hudgens**, JJ Eron, JD Kuruc, CL Gay, DM Margolis, NM Archin. Longitudinal dynamics of intact HIV proviral DNA and outgrowth virus frequencies in a cohort of ART-treated individuals. *J of Infectious Diseases*, 224(1):92–100, 2021.
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  49. H Lu, SR Cole, **MG Hudgens**, AA Adimora, KN Althoff, MJ Silverberg, K Buchacz, J Li, JK Edwards, PF Rebeiro, VD Lima, VC Marconi, TR Sterling, MA Horberg, MJ Gill, MM Kitahata, JJ Eron, RD Moore. Clinical effectiveness of integrase strand transfer inhibitor-based antiretroviral regimens among adults with human immunodeficiency virus: a collaboration of cohort studies in the

- United States and Canada. *Clinical Infectious Diseases*, 73(7):e1408–e1414, 2021.
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  52. F Savje, PM Aronow, **MG Hudgens**. Average treatment effects in the presence of unknown interference. *Annals of Statistics*, 49(2):673–701, 2021.
  53. JS Smith, DM Backes, **MG Hudgens**, W Mei\*, H Chakraborty, E Rohner, S Moses, K Agot, CJLM Meijer, RC Bailey. Male circumcision reduces penile HPV incidence and persistence: a randomized controlled trial in Kenya. *Cancer Epidemiology, Biomarkers & Prevention*, 30(6):1139–1148, 2021.
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  55. N Vielot, F González, Y Reyes, O Zepeda, B Blette\*, M Paniagua, C Toval-Ruiz, M Diez-Valcarce, **MG Hudgens**, L Gutierrez, P Blandón, R Herrera, EC Cuadra, N Bowman, S Vilchez, J Vinje, F Bucardo, S Becker-Dreps. Risk factors and clinical profile of sapovirus-associated acute gastroenteritis in early childhood: a Nicaraguan birth cohort study. *The Pediatric Infectious Disease Journal*, 40(3):220–226, 2021.
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- vational Studies with Partial Interference. *Stat*, 8(1):e214, 2019.
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*Books, Chapters, Commentaries, Letters, Rejoinders, Reviews*

275. SR Cole, JK Edwards, PN Zivich, BE Shook-Sa, **MG Hudgens**, JSA Stringer. Reducing Bias in Estimates of Per Protocol Treatment Effects. *JAMA Network Open*, In press.
276. B Zhang, **MG Hudgens**, ME Halloran. Propensity Score in the Face of Interference: Discussion of Rosenbaum and Rubin (1983). *Observational Studies*, 9(1):125-131, 2023.
277. X Gao\*, **MG Hudgens**, F Zou. Case-cohort studies with time-dependent covariates and interval-censored outcome. In *Emerging Topics in Modeling Interval-Censored Survival Data*, J Sun, DG Chen (Eds.). Springer Nature, 2022.
278. J DeMonte\*, **MG Hudgens**. Re: "A New Method for Estimating the Incidence of Infectious Diseases." *American Journal of Epidemiology*, 190(9):1969, 2021.
279. V Smith, C Coffman, **MG Hudgens**. Interpreting the Results of Intention to Treat, Per Protocol and As Treated Analysis of Clinical Trials. *JAMA*, 326(5):433-434, 2021.
280. SR Cole, **MG Hudgens**, J Edwards, MA Brookhart, DB Richardson, DJ Westreich, AA Adimora.

- Nonparametric bounds for the risk function. *American Journal of Epidemiology*, 188(4):632-636, 2019.
281. ME Halloran, **MG Hudgens**. Comment on Laber et al. *Applied Statistics*, 67(4):776, 2018.
  282. A Breskin, SR Cole, **MG Hudgens**. Response to Cinelli and Pearl. *Epidemiology*, 29(6):e51, 2018.
  283. A Breskin, SR Cole, **MG Hudgens**. A practical example demonstrating the utility of single world intervention graphs. *Epidemiology*, 29(3):e20-e21, 2018.
  284. CR Lesko, AL Buchanan, D Westreich, JK Edwards, **MG Hudgens**, SR Cole. Response to Huitfeldt and Stensrud. *Epidemiology*, 29(2):e14-e15, 2018.
  285. AL Buchanan\*, **MG Hudgens**, SR Cole. Generalizing Evidence from HIV Trials Using Inverse Probability of Sampling Weights. In *Quantitative Methods for HIV/AIDS Research*, C Chan, SC Chow, MG Hudgens (Eds.). CRC Press, 2018.
  286. C Chan, SC Chow, **MG Hudgens** (Eds.). *Quantitative Methods for HIV/AIDS Research*, CRC Press, 2018.
  287. J Rigdon\*, WW Loh, **MG Hudgens**. Response to comment on “Randomization inference for treatment effects on a binary outcome.” *Statistics in Medicine*, 36(5):876-880, 2017.
  288. BC Saul\*, **MG Hudgens**, ME Halloran. Causal Inference in the Study of Infectious Disease. In *Handbook of Statistics Volume 36: Disease Modelling and Public Health, Part A*, Elsevier, pp. 229-246, 2017.
  289. DJ Westreich, **MG Hudgens**. Response to Ferdinands et al. *American Journal of Epidemiology*, 185(7):614-615, 2017.
  290. JP Fine, **MG Hudgens**. Comment on Peters et al. *JRSS-B*, 78(5):999-1000, 2016.
  291. ME Halloran, **MG Hudgens**. Dependent Happenings: A Recent Methodological Review. *Current Epidemiology Reports*, 3(4):297-305, 2016.
  292. DJ Westreich, **MG Hudgens**. Invited commentary: Beware the test-negative design. *American Journal of Epidemiology*, 184(5):354-356, 2016.
  293. **MG Hudgens**. Rejoinder to “Reader Reaction: A note on the evaluation of group testing algorithms in the presence of misclassification,” by Malinovsky, Albert, and Roy. *Biometrics*, 72:304, 2016.
  294. **MG Hudgens**, JP Fine. Comment on Keiding and Louis. *JRSS-A*, 179(2):359, 2016.
  295. Rosen DL, Wohl DA, Golin CE, Rigdon J, May J, White BL, Leone PA, **Hudgens MG**, Bowling MJ. Comparing HIV testing and case detection in prison during opt-in vs. opt-out testing policies. *JAIDS*, 71(3):e85-e88, 2016.
  296. D Westreich, JK Edwards, ET Rogawski, **MG Hudgens**, EA Stuart, SR Cole. Causal Impact: Epidemiological Approaches for a Public Health of Consequence. *American Journal of Public Health*, 106(6):1011-1012, 2016.
  297. PB Gilbert, EE Gabriel, **MG Hudgens**, X Miao, X Li, SC Su, J Parrino, ISF Chan. Reply to Dunning. *Journal of Infectious Diseases*, 212(9):1521-1523, 2015.
  298. **MG Hudgens**. Comment on “Wanna get away? Regression discontinuity identification of exam school effects away from the cutoff” by Angrist and Rokkannen. *Journal of the American Statistical Association*, 110:1345-1347, 2015.
  299. **MG Hudgens**. Book Review of “Interval-censored time-to-event data: methods and applications,” Edited by DG Chen, J Sun, KE Peace. *Journal of the American Statistical Association*, 108:1549-1550, 2013.
  300. **MG Hudgens**, SR Cole. Correspondence regarding “HIV antiretroviral prophylaxis for injecting drug users.” *Lancet*, 382:853, 2013.
  301. ME Halloran, **MG Hudgens**. Comparing bounds for vaccine effects on infectiousness. *Epidemiology*, 23:931-932, 2012.
  302. AP Kourtis, **MG Hudgens**, D Kayira. Neutrophil count in African mothers and newborns and HIV transmission risk. *New England Journal of Medicine*, 367(23):2260-2262, 2012. PMC4115324
  303. PB Gilbert, **MG Hudgens**, J Wolfson. Commentary on “Principal Stratification – A Goal or a Tool?” by Judea Pearl. *International Journal of Biostatistics*, 7(1):36 (17 pages), 2011.
  304. IM Longini, **MG Hudgens**, ME Halloran. Estimation of vaccine efficacy for both susceptibility to infection and reduction in infectiousness for prophylactic HIV vaccines with partner augmentation. In *The Quantitative Evaluation of HIV Prevention Programs*, E. Kaplan and R. Brookmeyer (Eds.). New Haven. Yale University Press, 241-259, 2002.

*Invited Oral Presentations and Seminars*

Yale Dept. of Biostatistics (webinar), 2023  
George Mason Univ. Dept. of Statistics, 2023  
Quantitative Methods in Life Sciences: Precision Medicine and Environmental Health Symposium, NC BioTech Center, 2023  
Emory Dept. of Biostatistics and Bioinformatics (webinar), 2022  
ENAR, Houston 2022  
RTI International (webinar), 2022  
Banff Workshop on “Statistical Challenges in the Identification, Validation, and Use of Surrogate Marker” (panelist), 2022  
Univ. of Pennsylvania Center for Causal Inference (webinar), 2022  
Univ. of Texas Health Sciences Center at Houston, Dept. of Bios. and Data Science (webinar), 2022  
ENAR (panelist), 2021  
Georgetown Dept. of Biostatistics, Bioinformatics & Biomathematics (webinar), 2021  
SAMSI Data Science in the Social and Behavioral Sciences Workshop (webinar), 2021  
WHO Meeting on Correlates of Protection Against SARS-CoV-2 (webinar), 2021  
ISI World Statistics Congress (webinar), 2021  
UNC NC TraCS Biostatistics Seminar (webinar), 2021  
JSM (webinar), 2021  
ASA Biopharmaceutical Regulatory-Industry Statistics Workshop (webinar), 2021  
UNC Seminar in Network Analysis at Carolina (webinar), 2021  
Boston University Causal Inference Seminar (webinar), 2021  
International Conference of the ERCIM WG on Computational and Methodological Statistics (CM-Statistics 2021), webinar, 2021  
UNC Thurston Arthritis Research Center (webinar), 2020  
UNC SPH COVID-19 Research Collaborations Webinar (joint w/ B Shook-Sa), 2020  
Wake Forest BERD Methods Conference: Causal Inference (webinar), 2020  
Statistical and Applied Mathematical Sciences Institute (webinar), 2020  
Harvard Biostatistics Department HIV Working Group (webinar), 2020  
Dept. of Statistics, Columbia Univ., 2019  
JSM (discussant), Denver, 2019  
Dept. of Biostatistics, Vanderbilt, 2019  
“Causal Inference and Data Science,” Institute for Research in Statistics and its Applications, Univ. of Minnesota, 2019  
Triangle Comparative Effectiveness Symposium, RTI International, RTP, NC 2019  
Statistical Challenges and Opportunities in HIV/AIDS Research in the Era of Getting-to-Zero HIV Infection Workshop (panelist), Philadelphia, 2019  
ASA Mental Health Statistics Section (webinar), 2019  
Univ. of Rochester, 2019  
UNC Translational and Clinical Sciences Institute, 2019  
European Causal Inference Meeting (keynote), Florence, Italy, 2018  
Eastern North American Region (ENAR) of the International Biometric Society, Atlanta, 2018  
Center for AIDS Research, Emory, 2018  
HIV Prevention Trials Network Annual Meeting (plenary), 2018  
HIV Vaccine Trials Network Early Stage Investigators Conference, 2018  
Centre De Recherches Mathematiques, University of Montreal, 2018  
Dept. of Statistics, University of Wisconsin - Madison, 2018  
RAND Corporation, Pittsburgh, 2018  
Dept. of Statistics, Berkeley, 2017  
Dept. of Biostatistics, University of Florida, 2017  
Duke-Industry Statistics Symposium, 2017  
ENAR, Wash. DC, 2017  
Duke Human Vaccine Institute, 2017

Dept. of Statistics, Univ. of Penn. 2016  
 Dept. of Statistics, Univ. of Minn. 2016  
 Columbia Dept. of Stat. Causal Inference Conference, 2016  
 ENAR, Austin, 2016  
 Fred Hutchinson Cancer Research Center, Seattle, 2016  
 Workshop on Causal Inference with Highly Dependent Data in Communicable Disease Research, Harvard, 2016  
 Epidemiology Congress of the Americas, Miami, 2016  
 Biostatistics Research Branch, NIAID, Rockville, MD, 2016  
 XIV Latin American Congress of Probability and Mathematical Statistics (panelist), Universidad de Costa Rica, 2016  
 Dept. of Biostatistics, Harvard, 2015  
 Atlantic Causal Inference Conference, University of Pennsylvania, 2015  
 Dept. of Statistics, Carnegie Mellon University, 2015  
 UNC TraCS Biostatistics Grand Rounds, 2015  
 Dept. of Statistics, North Carolina State University, 2014  
 Statistical and Applied Mathematical Sciences Institute (SAMSI), 2014  
 Dept. of Math. Sciences, Clemson, 2014  
 ENAR, Baltimore, 2014  
 UNC TraCS Biostatistics Seminar Series, 2014  
 Dept. of Political Science, Yale, 2013  
 Dept. of Statistics, University of Michigan, 2013  
 Dept. of Biostatistics, University of South Carolina, 2013  
 ENAR, Orlando, 2013  
 Dept. of Biostatistics, Yale, 2012  
 Atlantic Causal Inference Conference, Johns Hopkins, 2012  
 Dept. of Biostatistics, Brown, 2012  
 Dept. of Statistical Science, Duke, 2012  
 UNC TraCS Biostatistics Seminar Series, 2012  
 Joint Statistical Meetings (JSM), Miami, 2011  
 Dept. of Statistics, University of South Carolina, 2011  
 Causal Inference in Health Research Workshop, University of Montreal, 2011  
 JSM, Vancouver, 2010  
 Consortium for AIDS Vaccine Discovery, Miami, 2009  
 JSM, Washington DC, 2009  
 Department of Psychology, UNC, 2009  
 JSM, Denver, 2008  
 Dept. of Statistics and Operations Research, New York University, 2008  
 International Chinese Statistical Association, Raleigh, NC, 2007  
 Rho Inc, NC, 2007  
 ENAR, Atlanta, 2007  
 JSM, Seattle, 2006  
 Midwestern Bio-pharmaceutical Statistics Workshop, Muncie, IN, 2005  
 Dept. of Operations Research, UNC, 2005  
 Biostatistics Research Branch, NIAID, Bethesda, MD, 2004  
 North Carolina Department of Health and Human Services, Raleigh, NC, 2004  
 Division of Infectious Diseases, School of Medicine, UNC Chapel Hill, 2004  
 JSM, Toronto, 2004  
 Statistics in the Health Sciences International Conference, Nantes, France, 2004  
 Dept. of Epidemiology, Harvard, 2003  
 Dept. of Biostatistics, UNC, 2003  
 Fred Hutchinson Cancer Research Center, Seattle, 2003  
 Dept. of Biostatistics and Bioinformatics, Duke, 2003  
 International AIDS Conference, Barcelona, 2002

Dept. of Biostatistics, Emory University, Atlanta, 2002  
Dept. of Biostatistics, University of Washington, Seattle, 2002  
ENAR, Washington D.C., 2002  
NIH NIAID ELISpot QA Workshop, Bethesda, MD, 2002  
Fred Hutchinson Cancer Research Center, Seattle, 2000  
Dept. of Statistics, University of Waterloo, 2000  
ENAR, Chicago, 2000  
ENAR, Atlanta, 1999  
Society for Clinical Trials, Atlanta, 1998

## Teaching Record and Advising

### *UNC Courses Taught*

BIOS 776: Causal Inference in Biomedical Research (2015, 2017, 2019, 2020, 2022)  
BIOS 680: Introductory Survival Analysis (2010–2014, 2016, 2018, 2020)  
BIOS 662: Intermediate Statistical Methods (2005–2008)  
EPID 690: Causal Inference (2012, Co-Instructor with S Cole)

### *Guest Lectures at UNC*

EPID 760: Vaccine Epidemiology  
Spring 2017 – 2022, Statistical considerations in assessing vaccine efficacy and effectiveness  
EPID 726: Epidemiologic Research Methods  
Spring 2015 – 2020, Fall 2020 – 2022 Power and sample size  
EPID 799C: Vaccine Epidemiology  
Spring 2016, Statistical considerations in assessing vaccine efficacy and effectiveness  
EPID 799A: Advanced Concepts in Infectious Disease Epidemiology  
Fall 2014, Causal inference and vaccines  
PLCY 801: Design of Policy-Oriented Research  
Fall 2014, Causal inference  
EPID 710: Fundamentals of Epidemiology  
Fall 2014 – 2016, BAN study  
EPID 799: Vaccine Epidemiology and Methods  
Fall 2013, Causal inference and vaccines  
MCRO 711: Seminar in Virology  
Fall 2013, Survival analysis  
BIOS 752: Design and Analysis of Clinical Trials  
Fall 2009, Causal inference  
EPID 270: Readings in Epidemiologic Modeling  
Fall 2004, Causal inference

### *Guest Lectures at Duke*

STA 640: Causal Inference  
Fall 2015, Causal inference with interference

### *Short Courses and Tutorials*

Causal Inference [2.5 day short-course, Co-Instructor with T Richardson]  
Summer Institute in Statistics and Modeling in Infectious Diseases  
University of Washington  
2009 – 2016, 2018 – 2023  
Longitudinal Analysis and Causal Inference [Two week module, Co-Instructor with T Chirwa]  
University of the Witwatersrand, 2017.

Causal Inference [4 hour short course]  
 XIV Latin American Congress of Probability and Mathematical Statistics (CLAPEM)  
 Universidad de Costa Rica, 2016.

Introduction to Power and Sample Size.  
 UNC Hospital Medicine Program, 2014.

Power and Sample Size Boot Camp [with K Mollan].  
 Friday Infectious Disease Conference, UNC. 2014.

An Overview of Biostatistics [with K Mollan].  
 Friday Infectious Disease Conference, UNC. 2013.

*Direction of Doctoral Research in Biostatistics*

Kayla Kilpatrick (2021), Causal Inference In Cluster-Randomized Trials and Observational Studies With Partial Interference.

Shaina Alexandria (2021), Methods for Multivariate Exposures with Application to Network Interference and Exposure Mixtures.

Bryan Blette (2021), Causal Inference for Error-Prone Exposures. Recipient of 2022 JSM ASA Biometrics Section Student Paper Award.

Sarah Reifeis (2020), Causal Inference for Observational Genomics Data. Recipient of 2021 ENAR Distinguished Student Paper Award.

Drew Allmon (2020), The Lasso and the Monkey: Feature Selection, Extraction, and Testing in Repeated Low-dose Challenge Data.

Bonnie Shook-Sa (2020), Inverse Probability Weighting and Outcome Regression Approaches in Causal Inference and Survey Sampling. Recipient of 2021 Barry H. Margolin Award for Excellence in Doctoral Research in Biostatistics.

Sujatro Chakladar (2018), Causal Inference with Partial Interference and Right Censored Outcomes.

Brian Barkley (2018), Causal Inference from Observational Studies in the Presence of Partial Interference.

Bradley Saul (2017), Applications of and Tools for Causal Inference.

Eric Daza (2015; co-advised with A Herring), Longitudinal Regression Conditioning on Continuation.

Joe Rigdon (2015), Causal Inference for Binary Data with Interference.

Ashley Buchanan (2015), Causal Inference in HIV/AIDS Research: Generalizability and Applications.

Amy Richardson (2014), Inference about Treatment Effects Using Bounds, Sensitivity Analysis and Instrumental Variables.

Hana Lee (2013; co-advised with J Cai), Marginal Structural Cox Models with Case-Cohort Sampling.

Lan Liu (2013), Causal Inference with Interference. Recipient of 2013 International Chinese Statistical Association Student Travel Award.

Dustin Long (2012), Causal Inference and Principal Stratification: Competing Risks, Bounds, and Surrogates. Recipient of 2013 ENAR Distinguished Student Paper Award.

Tracy Nolen (2012), Causal Inference in Infectious Disease Prevention Studies. Recipient of 2011 ENAR Distinguished Student Paper Award and 2011 Kupper Dissertation Publication Award.

Cicely Mitchell (2011), Semi-Markov Multi-state Modeling of HPV.

Hae-Young Kim (2007; co-advised with J Ibrahim), Operating Characteristics of Group Testing Algorithms for Case Identification in the Presence of Test Error. Recipient of 2006 ENAR Distinguished Student Paper Award and 2006 UNC Graduate Education Advancement Board Impact Award.

*Direction of Master's Thesis in Biostatistics*

Ivana Trumble (2018), Statistical Methods for Two Sample Limiting Dilution Assays. Winner of Regina C. Elandt-Johnson Master's Paper Award.

Christel Rushing (2015), Survival Function Estimation in the Presence of Right-Censoring and Missing Left-Truncation Times.

Bradley Saul (2015), A Recipe for Interference. Start with Causal Inference. Add Interference. Mix Well with R. Winner of Regina C. Elandt-Johnson Master's Paper Award.

Jiaqi Xiao (2015), On Nonparametric Maximum Likelihood Estimation with Double Truncation.

Anqi Zhu (2015), Rank-based Inference of Cox Model for Interval Censored Data.

Ian Robinson (2015), Network Analysis of Gender in Injection Drug Users in St. Petersburg, Russia.

Polina Kukhareva (2012), Evaluation of a Russian IDU Peer Network HIV Prevention Intervention in a Randomized Controlled Trial.

Amy Richardson (2011), Nonparametric Bounds and Sensitivity Analysis on Treatment Effects.

Cristina Baraian (2011), Comparison of Three Binary Screening Tests in the Presence of Verification Bias.

Megha Parikh (2011), Socioeconomic Factors Related to Frequency and Time to Initiation of Antenatal Care in Kinshasa, Democratic Republic of Congo.

Samuel Lendle (2010), Group Testing for Case Identification with Correlated Responses.

Julie Aldridge (2008), On Testing the Efficacy of Interventions to Prevent Mother-to-child Transmission of HIV.

Hyeon-Ah Park (2007), Use of Exact Tests in Vaccine Challenge Studies.

Jennifer Marcello (2006), A Causal Inference Approach to Assessing Surrogates of Protection in HIV Vaccine Trials.

Jonathan Dreyfuss (2006, Department of Statistics), Matrix Based Group Testing.

*Reader of Master's Thesis in Biostatistics (unless stated otherwise)*

Griffin Bell (2019)

Meichen Dong (2016)

Nadja Vielot (2014, Epidemiology)

Ellen Mir (2012)

Kati McConville (2012)

Chelsea Erickson (2009)

Giovanni Veronesi (2008)

Erika Menius (2008)

*Direction of Undergraduate Thesis in Biostatistics*

Matt Gilleskie (2019), Understanding Community and Individuals Level Factors Associated with HIV Care and Engagement.

Larry Han (2016), RTS,S/AS01 malaria vaccine efficacy and its interaction with seasonal precipitation: Results from a phase 3 randomized controlled trial in Lilongwe, Malawi.

Zimeng (Parker) Xie (2016), A method of estimating treatment effect in clinical data associated with personalized medicine: A replication study.

Elizabeth Chandler Church (2011), Predictors of CD4 Count at Time of Interview in an HIV-infected Cohort.

Sarah Elizabeth Smith (2010), Survival analysis of data on the prevention of mother-to-child transmission of HIV in a resource-limited setting.

*Faculty Mentoring*

Quefeng Li PhD (2015–present), Department of Biostatistics, Mentoring Committee

Annie Green Howard PhD (2013–present), Department of Biostatistics, Mentoring Committee Chair

Joshua Niznik, PharmD, PhD (2022–present), School of Medicine and Eshelman School of Pharmacy, NIA K-08 Mentor Panel

Josephine Asafu-Adjei PhD (2014–2017), Department of Biostatistics, Mentoring Committee Chair

Sylvia Becker-Dreps MD (2009–2013), Department of Family Medicine, NIH-Fogarty International Center K-01 Mentor Panel

### *Post-Doctoral Fellow Mentoring*

Jaffer Zaidi (2019–2020)  
Mamadou Yauck (2020)  
Wenwei Loh (2016–2017)

### *Doctoral Dissertation Committee Membership (UNC unless stated otherwise)*

Yu Gu, Biostatistics (2023); Marissa Ashner, Biostatistics (2023); Jeff Yang, Epidemiology (2023); Audrey Renson, Epidemiology (2022); Jonathan Fix, Epidemiology (2022); Yue Pan, Biostatistics (2022); Kevin Donovan, Biostatistics (2021); Paul Zivich, Epidemiology (2021); Jessica Young, Epidemiology (2020); Noah Greifer, Psychology (2020); Haidong Lu, Epidemiology (2020); Nicole Butera, Biostatistics (2019); Jin Wang, Biostatistics (2019); Owen Leete, Biostatistics (2019); Yue Jiang, Biostatistics (2019); Jessica Islam, Epidemiology (2019); Sarah Hoffman, Epidemiology (2019); Jacob Wulff, Biostatistics (2018); Fei Gao, Biostatistics (2017); Jung In Kim, Biostatistics (2017); Monica Chaudhari, Biostatistics (2017); Ayodele Gomih, Epidemiology (2017); Joann Gruber, Epidemiology (2017); Nadja Vielot, Epidemiology (2017); Lu Mao, Biostatistics (2016); Byeongyeob Choi, Biostatistics (2016); Yunro Chung, Biostatistics (2016); Emily Smith, Epidemiology (2016); Wen Wei, Statistics, University of Washington (2016); Xin Zhou, Biostatistics (2015); Noorie Hyun, Biostatistics (2014); Steven Hoberman, Biostatistics (2014); Natalia Gouskova, Biostatistics (2014); Alex Keil, Epidemiology (2014); Nicole Davis, Epidemiology (2014); Virginia Senkomago, Epidemiology (2013); Alane Murdock, Maternal and Child Health (2013); Min Jin Ha, Biostatistics (2013); Yi Zhang, Biostatistics (2013); Guochen Song, Biostatistics (2013); Elizabeth McClure, Epidemiology (2013); Jie Ting, Epidemiology (2013); Elizabeth Widen, Nutrition (2012); Ashley Naimi, Epidemiology (2012); Nathan Nickel, Maternal and Child Health (2011); Anne Rositch, Epidemiology (2011); Changfu Xiao, Biostatistics (2011); Bingqing Zhou, Biostatistics (2010); Danielle Backes, Epidemiology (2010); Anna Dow, Epidemiology (2010); William Funk, Environmental Sciences and Engineering (2009); Ella Nkohoma, Epidemiology (2009); Marloes Maathuis, Statistics, U of Washington (2006); Aaron Wendelboe, Epidemiology (2006); Jackie Tate, Epidemiology (2005)

## **Service**

### *Professional*

Associate Editor, Biometrics (2011–present)  
Chair, Invited Session “Synthetic Control Methods Under Interference” ENAR (2023)  
Organizer and Chair, Invited Session “Causal Inference and Censored Data” Lifetime Data Science Conference (2023)  
Organizing Committee, CFAR Symposium on Statistics and Data Science in HIV, Brown University (2023)  
ATN Executive Committee (2016–2022)  
ATN Analytic Committee (2016–2022)  
Member, Review Panel for RFA “PrEP for HIV Prevention among Substance Using Populations,” NIH NIDA (2022)  
Chair, Invited Session “Methods for Estimating SARS-CoV-2 Seroprevalence,” ENAR (2022)  
Temporary member, Biostatistical Methods and Research Design (BMRD) Study Section (2022)  
Temporary member, FDA Oncologic Drugs Advisory Committee (2022)  
ATN Scientific Committee (2018–2021)  
Member, Review Panel of Special Emphasis Panel/Scientific Review Group for RFA “PrEP for HIV Prevention among Substance Using Populations,” NIH NIDA (2021)  
Chair, Invited Paper Session “Causal Inference with Interference” JSM (2021)  
Associate Editor, Journal of the Royal Statistical Society - Series B (2016–2021)  
Organizer and Chair, Satellite Symposium “Keeping the Spotlight on Adolescents: Prevention and treatment research findings from the Adolescent Medicine Trials Network for HIV/AIDS Interventions (ATN),” 23rd International AIDS Conference (2020)

Associate Editor, Journal of the American Statistical Association (2012–2020)

Member, Ad-hoc Review Panel of applications to PAR-20-177 and PAR-20-178, “Emergency Awards: Rapid Investigation of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) and Coronavirus Disease 2019,” NIH NIAID (2020)

Chair, Contributed Session “Statistical Methods for Adolescent HIV Trials” JSM (2020)

Reviewer, German Federal Ministry of Education and Research grant applications (2020)

Member, Emory Dept of Bios and Bioinformatics, Kutner Distinguished Alumni Review Panel (2020)

Organizer and Chair, Invited Session “Evaluating Impact in Networks: Causal Inference with Interference” JSM (2019)

Chair, Contributed Session “Causal Inference in Survival Analysis” ENAR (2018)

Ad-hoc Member, International and Cooperative Projects (ICP1) Study Section, Fogarty Center, NIH (2018)

Member, DSMB for “Keep It Up!” (a randomized HIV prevention trial), PI B Mustanski PhD, Northwestern Univ at Chicago (2013–2017)

Chair, Contributed Session “Clustered Data Methods” ENAR (2017)

Planning Committee, Atlantic Causal Inference Conference (2017)

Member, Special Emphasis Panel of application to RFA-AI-16-012 “Pilot Clinical Trials to Eliminate the Latent HIV Reservoir (U01),” NIH (2016)

Member, FDA Vaccines and Related Biological Products Advisory Committee (2012–2016)

Member, ENAR Regional Advisory Board (RAB) (2016–2018)

Organizer and Chair, Invited Session “Statistical Methods in HIV/AIDS” ENAR (2016)

Organizer and Chair, Invited Session “Causal Inference and HIV/AIDS” ENAR (2015)

Organizer and Chair, Invited Biostatistics Sessions on “Biostatistics training and capacity building in developing countries” and “NIH funding for statistical and computational methodology development to support HIV/AIDS research,” Inter-CFAR Working Meeting on CFAR HIV Research in International Settings, San Diego (2014).

Member, Special Emphasis Panel of application to PAR-13-150 “NIAID Clinical Trial Planning Grant (R34),” NIH NIAID (2014)

Member, Special Emphasis Panel of applications to PAR-14-041 “Centers for AIDS Research and Developmental Centers for AIDS Research (P30),” NIH NIAID (2014)

Reviewer, United Kingdom Medical Research Council grant application (2014)

Member (ad-hoc), AIDS Clinical Studies and Epidemiology Study Section, NIH (2013)

Organizer and Chair, Invited Session “Optimal and personalized treatment of HIV,” ENAR (2012)

Chair, DSMB for “Empiric therapy of helminth co-infection to reduce HIV-1 disease progression” PI J Walson MD, University of Washington (2008–2011)

Organizer and Chair, Invited Session “Statistical Methods in HIV/AIDS Research,” ENAR (2011)

Organizer, Invited Session “Impact of Biostatistical Methods on HIV/AIDS Studies in Resource Limited Environments,” ENAR (2011)

Reviewer, Riksbankens Jubileumsfond (Sweden) grant application (2011)

Reviewer, National Science Foundation grant application (2012)

Reviewer, National Science Foundation grant application (2010)

Organizer, Invited Panel Session “Directing a Biostatistics Core in Biomedical Research,” Joint Statistical Meetings (2008)

Chair, Invited Session “Statistical Methods in HIV Genomics,” ENAR (2007)

Organizer and Chair, Invited Session “Statistical Methods in HIV/AIDS Research,” Joint Statistical Meetings, Section on Statistics in Epidemiology (2006)

Member, Special Emphasis Panel/Scientific Review Group, NIH NIAID (2006)

Member, Special Emphasis Panel/Scientific Review Group, NIH NIAID (2004)

Member, Faculty Search Committee, Department of Lab. Medicine, University of Washington (2003)

Reviewer for Professional Journal: *American Journal of Epidemiology*, *American Journal of Sociology*, *Annals of Statistics*, *Biometrics*, *Biometrika*, *Biostatistics*, *Communications in Statistics*, *Epidemiologic Methods*, *JMIR Research Protocols*, *Journal of the American Statistical Association*, *Journal of Applied Statistics*, *Journal of Biopharmaceutical Statistics*, *Journal of Business and Economic Statistics*, *Journal of Causal Inference*, *Journal of Consulting and Clinical Psychology*, *Journal of Clinical*

*Epidemiology, Journal of Machine Learning Research, Journal of Nonparametric Statistics, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference, Journal of Statistical Software, Journal of the Royal Statistical Society (Series A – C), Journal of the Society for Clinical Trials, International Journal of Epidemiology, Lifetime Data Analysis, Metrika, Pharmaceutical Statistics, Proceedings of the National Academy of Sciences, Science, Sexually Transmitted Diseases, Stat, Statistical Methods in Medical Research, Statistics and Probability Letters, Statistics in Medicine, Statistics in Biosciences, Statistical Science, Test, Vaccine*

External Reviewer for Appointment/Tenure/Promotion: University of Washington (2023), University of Rochester (2023), Emory (2023), Harvard (2022), University of Wisconsin - Madison (2022), Duke (2022), Carnegie Mellon University (2022), University of Chicago (2021), Duke (2020), Johns Hopkins University (2020), Carnegie Mellon University (2020), University of Rochester (2020), University of Massachusetts Amherst (2020), Duke (2019), University of Pennsylvania (2019), University of South Carolina (2019), Montana State University (2019), Boston University (2018), Fred Hutchinson Cancer Research Center (2018), University of Pennsylvania (2018), The Ohio State University (2017), New York Medical College (2017), The Ohio State University (2016), University of Massachusetts Amherst (2016), University of Florida (2016), Duke (2015), Fred Hutchinson Cancer Research Center (2013), University of Michigan (2013), University of Massachusetts Amherst (2013)

#### *Faculty Engagement*

Gillings Research Council, School of Public Health (2019-present)  
 Inclusive Excellence Committee, Department of Biostatistics (2022-present)  
 Chair, Web and Communications Committee, Department of Biostatistics (2022-present)  
 Admissions Committee, Department of Biostatistics (2013-present)  
 Center for AIDS Research Developmental Core Review Committee (2008-present)  
 Center for AIDS Research Developmental Core Internal Advisory Board (2019-present)  
 UNC Conflict of Commitment / EPAP Working Group (2023)  
 UNC Gillings Diversity and Inclusion Cohort Hire Search Committee (2022-present)  
 Faculty Search Committee, Department of Biostatistics (2022)  
 University of North Carolina-Chapel Hill T32 in Biostatistics for Research in Environmental Health (UNITE T32) Internal Advisory Board (2021-present)  
 Chair, Inclusive Excellence Committee, Department of Biostatistics (2021-2022)  
 Web and Communications Committee, Department of Biostatistics (2021-2022)  
 Gillings 2022 SPH Commencement Speaker Advisory Group (2021)  
 Steering Committee for Duke “Quantitative Methods in HIV/AIDS” training program (2018-2022)  
 Chair, Doctoral Applications Examination Committee, Department of Biostatistics (2014-2020)  
 Chair, Faculty Search Committee, Department of Biostatistics (2017-2018)  
 Graduate Program Review Committee (Internal Reviewer), Department of Epidemiology (2017)  
 Moderator and Planning Committee, CFAR World AIDS Day Symposium (2017)  
 Appointments, Promotions, and Tenure (APT) Committee, School of Public Health (2016-2019)  
 Chair, Collaborative Studies Coordinating Center Review Committee, Department of Biostatistics (2016-2017)  
 Gillings MPH Core (Residential) Planning Committee, School of Public Health (2015-2016)  
 Faculty Search Committee, Department of Biostatistics (2016)  
 Biostatistics Chair Review Committee (2015)  
 Biostatistics Department Affiliate Liaison to the National Institute of Statistical Sciences (2014 - 2016)  
 Faculty Search Committee, Department of Biostatistics (2014-2015)  
 Chair, Faculty Retreat Planning Committee, Department of Biostatistics (2014)  
 Chair, MS and MPH Curriculum and Training Task Force, Department of Biostatistics (2013)  
 Faculty Search Committee, Department of Biostatistics (2012)  
 Safety Monitoring Committee, Phase I/II Trial, PI D Margolis (2011-2016)  
 Collaborative Studies Coordinating Center Review Committee, Department of Biostatistics (2011)  
 Doctoral Examination Committee, Department of Biostatistics (2010-2014)  
 Space Committee, Department of Biostatistics (2008-2013)  
 School of Public Health Web Council Committee (2008-2009)

Self Study Committee, Department of Biostatistics (2008)  
Chair, Web and Communications Committee, Department of Biostatistics (2007-2015)  
School of Public Health Student Awards Committee (2006-2007)  
Faculty Search Committee, Department of Biostatistics (2006-2008)  
Safety Monitoring Committee, Phase I Trial, PI D Margolis (2005-2009)  
Center for AIDS Research Biostatistics Core Internal Advisory Board (2005-2010)  
Master's Examination Committee, Department of Biostatistics (2004-2009)

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