

Jessie K. Edwards

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ACADEMIC APPOINTMENTS

University of North Carolina at Chapel Hill

Assistant Professor, Department of Epidemiology 2020 – present

Research Assistant Professor, Department of Epidemiology 2015 – 2020

Postdoctoral Research Associate, Department of Epidemiology 2013 – 2015

EDUCATION

PhD Epidemiology, *University of North Carolina at Chapel Hill* 2013

MSPH Epidemiology, *University of North Carolina at Chapel Hill* 2010

BS International Affairs, *Georgia Institute of Technology* 2007

AWARDS

Reviewer of the year 2015
American Journal of Epidemiology

Berton H. Kaplan Student Publication Award 2013
University of North Carolina at Chapel Hill

Sidney Kark Award for Distinguished Teaching Assistant 2013
University of North Carolina at Chapel Hill

Delta Omega Public Health Honor Society, Theta Chapter 2013

Society for Epidemiologic Research Student Poster Award 2012

Graduate Merit Assistantship 2008–2009
University of North Carolina at Chapel Hill

President's Scholarship 2003–2007
Georgia Institute of Technology

PUBLICATIONS

PEER REVIEWED PAPERS

1. *Zalla LC, Cole SR, Eron JJ, Adimora AA, Vines AI, Althoff KN, Silverberg MJ, Horberg MA, Marconi VC, Coburn SB, Lang R, Williams EC, Gill MJ, Gebo KA, Klein M, Sterling TR, Rebeiro PF, Mayor AM, Moore RD, **Edwards JK**. Association of Race and Ethnicity With Initial Prescription of Antiretroviral Therapy Among People With HIV in the US. *JAMA*. 2023;329(1):52-62
2. Ross RK, Keil AP, Cole SR, **Edwards JK**, Stringer JSA. A Warning About Using Predicted Values to Estimate Descriptive Measures. *American Journal of Epidemiology*. 2022; *In press*
3. **Edwards JK**, Cole SR, Shook-Sa BE, Zivich PN, Zhang N, Lesko CR. When does differential outcome misclassification matter for estimating prevalence?. *Epidemiology*. 2022; *In press*

4. Chen D, Sandler DP, Keil AP, Heiss G, Whitsel EA, Pratt GC, Stewart PA, Stenzel MR, Groth CP, Banerjee S, Huynh TB, **Edwards JK**, Jackson WB, Engeda J, Kwok RK, Werder EJ, Lawrence KG, Engel LS. Fine particulate matter and incident coronary heart disease events up to 10 years of follow-up among Deepwater Horizon oil spill workers. *Environmental Research*. 2023; 217:114841
5. Lemasters K, Renson A, **Edwards JK**, Robinson WR, Brinkly-Rubenstein L, Delamater P, Pence B. Inequities in Life Course Involvement in the Criminal Legal System: Measuring Cumulative Involvement. *Annals of Epidemiology*. 2022; *In press*
6. Gaber CE, Shaheen NJ, **Edwards JK**, Sandler RS, Nichols HB, Sanoff HK, Lund JL. Trimodality therapy vs definitive chemoradiation in older adults with locally advanced esophageal cancer. *JNCI Cancer Spectrum*. 2022; *In press*
7. **Edwards JK**, Wohl D. Dying at Home Due to COVID-19. *Open Forum for Infectious Diseases*. 2022; 9(9): ofac439
8. Gaber CE, **Edwards JK**, Lund JL, Peery AF, Richardson DB, Kinlaw AC. Inverse probability weighting to estimate exposure effects on the burden of recurrent outcomes in the presence of competing events. *American Journal of Epidemiology*. 2022; *In press*
9. Filiatreau LM, Zivich PN, **Edwards JK**, Mulholland GE, Max R, Westreich D, Optimizing SARS-CoV-2 pooled testing strategies through differentiated pooling for distinct groups. *American Journal of Epidemiology*. 2022; *In press*
10. Gaber CE, Shaheen NJ, Sandler RS, **Edwards JK**, Nichols HB, Sanoff HK, Lund JL. Patterns of care among older adults diagnosed with locally advanced esophageal cancer eligible for trimodal therapy. *Journal of Geriatric Oncology*. 2022; *In press*
11. Lesko CR, **Edwards JK**, Hanna DB, Mayor AM, Silverberg MJ, Horberg M, Rebeiro PF, Moore RD, Rich AJ, McGinnis KA, Buchacz K, Crane HM, Rabkin CS, Althoff KN, Poteat TC. Longitudinal HIV care continuum by gender identity in the United States. *AIDS*. 2022; *In press*
12. Ross RK, Cole SR, Westreich D, **Edwards JK**, Musonda P, Kasaro M, Price J, Stringer JSA. Different effects for different questions: an illustration using short cervix and the risk of preterm birth. *International Journal of Gynecology and Obstetrics*. 2022; *In press*
13. Lesko CR, Fox MP, **Edwards JK**. A framework for descriptive epidemiology. *American Journal of Epidemiology*. 2022; *In press*
14. Stebbins R, Maselko J, Yang YC, Plassman BL, **Edwards JK**, Aiello AE. Lifecourse Traumatic Events and Cognitive Aging in the Health and Retirement Study. *American Journal of Preventative Medicine*. 2022; *In press*
15. **Edwards JK**, Cole SR, Breger TL, Filiatreau LM, Zalla L, Mulholland GE, Horberg MA, Silverberg MJ, Gill JM, Rebeiro PF, Thorne JE, Kasaie P, Marconi VC, Sterling TR, Althoff KN, Moore RD, Eron JJ. Mortality for adults entering HIV care under universal early treatment compared to the general US population. *Clinical Infectious Diseases*. 2022; *In press*
16. Richardson DB, Keil AP, **Edwards JK**, Cole SR, Tchetgen Tchetgen EJ. A Bespoke Instrumental Variable Approach to Correction for Exposure Measurement Error. *American Journal of Epidemiology*. 2022; *In press*
17. Park LS, McGinnis KA, Gordon KS, Justice AC, Leyden W, Silverberg MJ, Skarbinski J, Jefferson C, Horberg M, Certa J, Napravnik S, **Edwards JK**, Westreich D, Bastarache L, Gangireddy S, Benning L, D'Souza G, Williams C, Althoff KN. SARS-CoV-2 testing and positivity among persons with and without HIV in 6 United States cohorts. *Journal of Acquired Immune Deficiency Syndromes*. 2022; 90(3):249-255
18. St Jean DT, McQuade ET, **Edwards JK**, Thompson P, Thomas J, Becker-Dreps S. Effect of early life antibiotic use on serologic responses to oral rotavirus vaccine in the MAL-ED birth

- cohort study. *Vaccine*. 2022 Apr 20;40(18):2580-7.
19. Zivich PN, Shook-Sa BE, **Edwards JK**, Cole SR, Westreich D. On the use of covariate supersets for identification conditions. *Epidemiology*. 2022; 33(4):559-62
 20. Chapinta D, Pettifor A, **Edwards JK**, Giovenco D, Topazian HM, Bray RM, Millington MC, Estill J, Keiser O, Justman JE. Access to social protection by people living with, at risk of, or affected by HIV in Eswatini, Malawi, Tanzania, and Zambia - results from Population-Based HIV Impact Assessments. *Journal of the International AIDS Society*. 2022; 26, 3068–3078
 21. Cole SR, **Edwards JK**, Breskin A, Rosin S, Zivich PN, Shook-Sa BE, Hudgens MG. Illustration of Two Fusion Designs and Estimators. *American Journal of Epidemiology*. 2022; *In press*
 22. Romo ML, **Edwards JK**, Semeere AS, Musick BS, Urassa M, Odhiambo F, Diero L, Kasozi C, Murenzi G, Lelo P, Wyka K, Kelvin EA, Sohn AH, Wools-Kaloustian KK, Nash D. Viral load status before switching to dolutegravir-containing antiretroviral therapy and associations with HIV treatment outcomes in sub-Saharan Africa. *Clinical Infectious Diseases*. 2022; *In press*
 23. **Edwards JK**, Donastorg Y, Zadrozny S, Hileman S, Gomez H, Seamans MJ, Herce ME, Ramirez E, Barrington C, Weir S. A two-stage approach for rapid assessment of the proportion achieving viral suppression using routine clinical data. *Epidemiology*. 2022; 33 (5), 642-649
 24. Mitchell CL, Janko MM, Mwandagalirwa MK, Tshetu AK, **Edwards JK**, Pence BW, Juliano JJ, Emch M. Impact of extractive industries on malaria prevalence in the Democratic Republic of the Congo: a population-based cross-sectional study. *Scientific Reports*. 2022; 12(1):1-9.
 25. Htoo PT, Buse J, Cavender M, Wang T, Pate V, **Edwards JK**, Stürmer T. Cardiovascular Effectiveness of Sodium-Glucose Cotransporter 2 Inhibitors and Glucagon-Like Peptide-1 Receptor Agonists in Older Patients in Routine Clinical Care With or Without History of Atherosclerotic Cardiovascular Diseases or Heart Failure. *Journal of the American Heart Association*. 2022 Feb 15;11(4):e022376.
 26. Romo ML, Patel RC, **Edwards JK**, Humphrey JM, Musick BS, Bernard C, Maina M, Brazier E, Castelnovo B, Penner J, Wyka J, Wagner Cardoso S, Sun Ly P, Kunzekwenyika C, Cortés CP, Panczak R, Kelvin EA, Wools-Kaloustian KK, Nash D. Disparities in dolutegravir uptake among females of reproductive age with HIV in low- and middle-income countries following initial concerns about teratogenicity: an observational study. *Annals of Internal Medicine*. 2022; 175:84-94
 27. Rudolph JE, Cole SR, **Edwards JK**, Whitsel EA, Serre ML, Richardson DB. Association between annual concentrations of particulate matter and mortality rates: using data linkage and Bayesian Maximum Entropy to target all contiguous US counties. *Epidemiology*. 2022; *In press*
 28. Westreich D, **Edwards JK**, Tennant PWG, Murray EJ, van Smeden M. Choice of outcome in COVID-19 studies and implications for policy: mortality and fatality. *American Journal of Epidemiology*. 2022; 191(2):282-6
 29. Mitchell CL, Ngasala B, Janko MM, Chacky F, Edwards JK, Pence BW, et al. Evaluating malaria prevalence and land cover across varying transmission intensity in Tanzania using a cross-sectional survey of school-aged children. *Malaria Journal*. 2022;21(1):80.
 30. Lu H, Cole SR, Westreich D, Hudgens MG, Adimora AA, Althoff KN, Silverberg MJ, Buchacz K, Li J, **Edwards JK**, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Horberg MA, Gill MJ, Kitahata MM, Eron JJ, Moore RD. Virologic outcomes among adults with HIV using integrase strand transfer inhibitor-based antiretroviral therapy: a collaboration of cohort studies. *AIDS*. 2022 Feb 1;36(2):277-86.
 31. *Zalla LC, Mulholland GE, Filiatreau LM, **Edwards JK**. Racial/Ethnic and Age Differences

- in the Direct and Indirect Effects of the COVID-19 Pandemic on US Mortality. *American journal of public health*. 2022 Jan;112(1):154-64.
32. Shangase N, **Edwards JK**, Pence B, Aiello A, Hussong A, Gómez-Olivé X, Kahn K, Stoner M, Pettifor A. Effect of quality of caregiver-adolescent relationship on sexual debut, transactional sex and on age-disparate relationships among young women in rural South Africa enrolled in HPTN 068. *JAIDS Journal of Acquired Immune Deficiency Syndromes*. 2022 89(4): 366-373
 33. **Edwards JK**, Cole SR, Breger T, Rudolph J, Filiatreau L, Buchacz K, Humes E, Rebeiro P, DSouza G, Gill MJ, Silverberg M, Mathews WC, Horberg M, Thorne J, Hall HI, Justice A, Marconi V, Lima V, Bosch R, Sterling T, Althoff K, Moore RD, Saag M, Eron J. Mortality among people entering HIV care compared to the general US population: an observational study. *Annals of Internal Medicine*. 2021; 174 (9), 1197-1206
 34. Hecce ME, Chagomerana MB, Zalla LC, Carbone NB, Chi BH, Eliya MT, Phiri S, Topp SM, Kim MH, Wroe EB, Chilangwa C, Chinkonde J, Mofolo IA, Hosseinipour MC, **Edwards JK**. Community-facility linkage models and maternal and infant health outcomes in Malawi's PMTCT/ ART program: A cohort study. *PLoS Medicine*. 2021; Sep 17;18(9):e1003780.
 35. Miller EM, Law EA, Ajeen R, Karasik J, Mendoza C, Abernathy H, Garrett H, King E, Wallace J, Zelek M, **Edwards JK**, Xiong K, Beatty C, Fleischauer AT, Ciccone EJ, Shook-Sa BE, Aiello AE, Boyce RM. SARS-CoV-2 infection in central North Carolina: Protocol for a population-based longitudinal cohort study and preliminary participant results. *PLOS ONE*. 2021;16(10):e0259070.
 36. *Mulholland GE, Markiewicz M, Arimi P, Ssengooba F, Weir S, **Edwards JK**. HIV prevalence and the HIV treatment cascade among female sex workers in cross-border areas in East Africa. *AIDS and Behavior*. 2021; Aug 11:1-3
 37. Giovenco D, Pettifor A, Powers KA, Hightow-Weidman L, Pence BW, **Edwards JK**, Gill K, Morton JF, van der Straten A, Celum C, Bekker LG. The Effect of PrEP Use Disclosure on Adherence in a Cohort of Adolescent Girls and Young Women in South Africa. *AIDS and Behavior*. 2021; Sep 3:1-0
 38. Stebbins R, **Edwards JK**, Plassman BL, Yang YC, Noppert GA, Haan M, Aiello AE. Immune Function, Cortisol, and Cognitive Decline & Dementia in an Aging Latino Population. *Psychoneuroendocrinology*. 2021; Nov 1;133:105414.
 39. Sumner KM, Mangeni JN, Obala AA, Freedman E, Abel L, Meshnick SR, **Edwards JK**, Pence BW, Prudhomme-O'Meara W, Talor SM. Impact of asymptomatic *Plasmodium falciparum* infection on the risk of subsequent symptomatic malaria in a longitudinal cohort in Kenya. *eLife*. 2021; Jul 23;10:e68812.
 40. Lesko CR, Hutton HE, **Edwards JK**, McCaul ME, Fojo AT, Keruly JC, Moore RD, Chander G. Alcohol use disorder and recent alcohol use and HIV viral non-suppression among people engaged in HIV care in an urban clinic, 2014-2018. *AIDS and Behav*. 2021; Oct 9:1-9.
 41. Sumner KM, Freedman E, Mangeni JN, Obala AA, Abel L, **Edwards JK**, Emch M, Meshnick SR, Pence BW, Prudhomme-O'Meara W, Taylor SM. Exposure to diverse *Plasmodium falciparum* genotypes shapes the risk of symptomatic malaria in incident and persistent infections: A longitudinal molecular epidemiologic study in Kenya. *Clinical Infectious Diseases*. 2021; 73(7):1176-1184
 42. Topazian HM, Gumbo A, **Edwards JK**, Brandt K, Goel V, Kayange M, Mvalo T, Emch M, Pettifor A, Smith JS, Juliano JJ, Hoffman I. Effectiveness of a National Mass Distribution Campaign of Long-Lasting Insecticide-Treated Nets on Clinical Malaria in Malawi, 2018-2020. *BMJ Global Health*. 2021; May 1;6(5):e005447.
 43. Gaber CE, Kinlaw AC, **Edwards JK**, Lund JL, Stürmer T, Peacock Hinton S, Pate V, Bartelt LA, Sandler RS, Peery AF. Comparative Effectiveness and Harms of Antibiotics for Outpatient

- Diverticulitis: Two Nationwide Cohort Studies. *Annals of Internal Medicine*. 2021; 174(6), 737-746
44. Breskin A, Cole SR, **Edwards JK**, Brookmeyer R, Eron JJ, Adimora AA. Fusion Designs and Estimators for Treatment Effects. *Statistics in Medicine*. 2021; 40 (13), 3124-3137
 45. Chagomerana MB, **Edwards JK**, Zalla LC, Carbone NB, Banda GT, Mofolo IA, Hosseinipour MC, Herce ME. Timing of HIV testing among pregnant and breastfeeding women and risk of mother-to-child HIV transmission in Malawi: A sampling-based cohort study. *Journal of the International AIDS Society*. 2021. Mar;24(3):e25687.
 46. Mollan KR, Pence BW, Xu S, **Edwards JK**, Mathews WC, O’Cleirigh C, Crane HM, Eaton EF, Collier AC, Weideman AMK, Westreich D, Cole SR, Tierney C, Bengtson AM. Transportability from randomized trials to clinical care: On initial HIV treatment with efavirenz and suicidal thoughts or behaviors. *American Journal of Epidemiology*. 2021: 190 (10); 2075-2084
 47. Filiatreau LM, Pettifor A, **Edwards JK**, Masilela N, Twine R, Gomez-Olive FX, Haberland N, Kabudula CW, Lippman SA, Kahn K. Associations Between Key Psychosocial Stressors and Viral Suppression and Retention in Care Among Youth with HIV in Rural South Africa. *AIDS and Behavior*. 2021 Feb 24;1-1.
 48. Brazeau NF, Mitchell CL, Morgan AP, Deutsch-Feldman M, Watson OJ, Thwai KL, Gelabert P, van Dorp L, Keeler CY, Waltmann A, Emch M, Gartner V, Redelings B, Wray GA, Mwandagalirwa MK, Tshefu AK, Likwela JL, **Edwards JK**, Verity R, Parr JB, Meshnick SR, Juliano JJ. The epidemiology of Plasmodium vivax among adults in the Democratic Republic of the Congo. *Nature Communications*. 2021 Jul 7;12(1):1-0.
 49. *Zalla L, **Edwards JK**, Cole SR, Rudolph JE, Breger TL, Virkud A, Satcher Johnson A, Hall HI. Data Movies of Demographic Trends in US HIV Diagnoses, 2008-2017. *American Journal of Public Health*. 2021; 111(4): 529-532
 50. Stoner MCD, **Edwards JK**, Westreich D, Kilburn K, Ahern J, Lippman SA, Gomez-Olive X, Kahn K, Pettifor A. Modelling cash plus other psychosocial and structural interventions to prevent HIV among girls of school age in South Africa (HPTN 068). *AIDS and Behavior*. 2021; 25: 133-143
 51. Frascino NY, **Edwards JK**, Herce ME, Maselko J, Pettifor AE, Mbeye N, Weir SS, Pence BW. Differences in Access to HIV Services and Risky Sexual Behaviors Among Malawian Women at Social Venues Who Do and Do Not Engage in Sex Work. *AIDS and Behavior*. 2021 May 13;1-9.
 52. Rudolph JE, **Edwards JK**, Naimi AI, Westreich DJ. Simulation in practice: the balancing intercept. *American Journal of Epidemiology*. 2021; 190(8): 1696-1698
 53. Albert LM, **Edwards JK**, Pence B, Speizer IS, Hillis S, Kahn K, Gómez-Olivé FX, Wagner RG, Twine R, Pettifor A. Associations of father and adult male presence with first pregnancy and HIV infection: Longitudinal evidence from adolescent girls and young women in rural South Africa (HPTN068). *AIDS and Behavior*. 2021; 25(7):2177-94
 54. *Zalla LC, Martin CL, **Edwards JK**, Gartner DR, Noppert GA. A Geography of Risk: Structural Racism and COVID-19 Mortality in the United States. *American Journal of Epidemiology*. 2021; 190(8): 1439-1446
 55. Cole SR, **Edwards JK**, Breskin A, Hudgens MG. Comparing Parametric, Semiparametric, and Nonparametric Estimators: The Weibull Trials. *American Journal of Epidemiology*. 2021; 190(8): 1643-1651
 56. Stoner MCD, Westreich D, Ahern J, **Edwards JK**, Gomez-Olive X, Tollman SM, Lippman S, Kahn K, Pettifor A. Modeling combination interventions to prevent HIV in adolescent girls and young women in South Africa (HPTN 068). *Clinical Infectious Diseases*. 2021: 73 (7); e1911-e1918

57. Lu H, Cole SR, Westreich D, Hudgens MG, Adimora A, Althoff KN, Silverberg MJ, Buchacz K, Li J, **Edwards JK**, Rebeiro PF, Lima VD, Marconi VC, Sterling TR, Horberg MA, Gill MJ, Kitahata MM, Eron JJ, Moore RD. 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*. 2021; 73 (7); e1408-e1414
58. Cole SR, **Edwards JK**, Greenland S. Surprise!. *American Journal of Epidemiology*. 2021; 190(2):191-3
59. Deutsch-Feldman M, Parr JB, Keeler C, Brazeau NF, Goel V, Emch M, **Edwards JK**, Kashamuka M, Tshefu AK, Meshnick SR. What is the burden of malaria in the DRC? *Journal of Infectious Diseases*. 2021; 223(11): 1948-1952
60. Topazian HM, Gumbo A, Puerto-Meredith S, Njiko R, Kayange M, Mwalilino D, Mvula B, Tegha G, Mvalo T, **Edwards JK**, Emch M, Pettifor A, Smith J, Hoffman I, Meshnick SR, Juliano JJ. Hidden Reservoir: Asymptomatic *Plasmodium falciparum* Malaria Prevalence among Adolescents and Adults in Malawi, 2015-2016. *Scientific Reports*. 2020; 10(1):1-1.
61. Richardson DB, Keil AP, Cole SR, **Edwards JK**. Reducing Bias Due to Exposure Measurement Error Using Disease Risk Scores. *American Journal of Epidemiology*. 2020; 190(2):191-3.
62. Webster-Clark M, Stürmer T, **Edwards JK**, Poole C, Simpson RJ, Lund JL. Real-World On-Treatment and Initial Treatment Absolute Risk Differences for Dabigatran vs Warfarin in Older US Adults. *Pharmacoepidemiology and Drug Safety*. 2020; 29(8):832-41
63. Cole SR, **Edwards JK**, Naimi AI, Muñoz A. Hidden imputations and the Kaplan-Meier estimator. *American Journal of Epidemiology*. 2020; 189(11):1408-11
64. Lesko CL, Keil AP, **Edwards JK**. The Epidemiologic Toolbox: Identifying, honing, and using the right tools for the job. *American Journal of Epidemiology*. 2020; 189(6):511-7
65. Richardson DB, Cole SR, Keil AP, **Edwards JK**, Kinlaw AC. Standardizing Discrete Time Hazard Ratios with a Disease Risk Score. *American Journal of Epidemiology*. 2020; 189(10):1197-203
66. Fearon E, Chabata ST, Magutshwa S, Ndori-Mharadze T, Musemburi S, Chidawanyika H, Masendeke A, Napierala S, Gonese E, Roloff AH, Tippet Barr BA, Kilmarx PH, Wong-Gruenwald R, Chidiya S, Mhangara M, Hanisch D, **Edwards JK**, Rice B, Taramusi I, Mbengeranwa T, Magure T, Manangazira P, Mugurungi O, Hargreaves JR, Cowan FM. Estimating the population size of female sex workers in Zimbabwe: comparison of estimates obtained using different methods in twenty sites and development of a national-level estimate. *Journal of AIDS*. 2020; 85(1):30
67. **Edwards JK**, Cole SR, Fox MP. Flexibly accounting for exposure misclassification with external validation data. *American Journal of Epidemiology*. 2020; 189(8): 850-860
68. Price J, Vwalika B, **Edwards JK**, Cole SR, Kasaro MP, Rittenhouse K., Kumwenda A, Lubeya M, Stringer JSA. Maternal HIV infection and preterm birth phenotype in an urban Zambian cohort. *JAIDS*. 2020; 87(2): 860-868
69. Breger TL, **Edwards JK**, Cole SR, Westreich D, Pence BW, Adimora AA. Two-stage g-computation: evaluating treatment and intervention impacts in observational cohorts when exposure information is partly missing. *Epidemiology*. 2020; 31 (5), 695-703
70. Virkud AV, Arimi P, Sengooba F, Mulholland GE, Herce ME, Markiewicz M, Weir S, **Edwards JK**. Access to HIV prevention services in East African cross-border areas: a 2016-2017 cross-sectional bio-behavioral study. *Journal of the International AIDS Society*. 2020; 23, e25523
71. Breger TL, **Edwards JK**, Cole SR, Saag M, Rebeiro PF, Moore RD, Eron JJ. Estimating a set of mortality risk functions with multiple contributing causes of death. *Epidemiology*. 2020; 31

- (5), 704-712
72. Deutsch-Feldman M, Brazeau NF, Parr JB, Thwai KL, Muwonga J, Kashamuka M, Tshefu AK, Aydemir O, Bailey JA, **Edwards JK**, Verity R, Emch M, Gower EW, Juliano JJ, Meshnick SR. Spatial and epidemiological drivers of *P. falciparum* malaria among adults in the Democratic Republic of the Congo. *BMJ Global Health*. 2020; 5 (6), e002316
 73. Webster-Clark M, Lund JL, Stürmer T, Poole C, Simpson R, **Edwards JK**. Reweighting Oranges to Apples: Transported RE-LY Trial vs Non-experimental Effect Estimates of Anticoagulation in Atrial Fibrillation. *Epidemiology*. 2020; 31 (5), 605-613
 74. **Edwards JK**, Arimi P, Ssengooba F, Herce ME, Mulholland G, Markiewicz M, Babirye S, Ssendagire S, Weir SS. Improving HIV outreach testing yield at cross-border venues in East Africa. *AIDS*. 2020; 34 (6), 923
 75. Lesko CR, Ackerman B, Webster-Clark M, **Edwards JK**. Target Validity: Bringing Treatment of External Validity in Line with Internal Validity. *Current Epidemiology Reports*. 2020 Jun 30:1-8.
 76. **Edwards JK**, Lesko CR, Herce ME, Murenzi G, Twizere C, Lelo P, Anastos K, Tymejczyk O, Yotebieng M, Nash D, Adedimeji A, Edmonds A. Gone but not lost: implications for estimating HIV care outcomes when loss to clinic is not loss to care. *Epidemiology*. 2020; 31(4): 570-577
 77. Haber NA, Lesko CR, Fox MP, Powers KA, Harling G, **Edwards JK**, Salomon J, Lippman SA, Bor J, Chang AY, Anglemyer A, Pettifor A. Limitations of the UNAIDS 90-90-90 Metrics: A Simulation-Based Comparison of Cross-Sectional and Longitudinal Metrics for the HIV Care Continuum. *AIDS*. 2020; 34(7): 1047-1055
 78. Topazian HM, Stoner MCD, **Edwards JK**, Kahn K, Gomez-Olive FX, Twine R, Hughes JP, Cohen MS, Pettifor A. Variations in HIV risk by young woman's age and partner age-disparity in rural South Africa (HPTN 068). *JAIDS*. 2020; 83(4):350
 79. Fox MP, **Edwards JK**, Platt R, Balzer LB. The critical importance of asking good questions: The role of epidemiology doctoral training programs. *American Journal of Epidemiology*. 2019; 189 (4), 261-264
 80. **Edwards JK**, Bakoyannis G, Yiannoutsos C, Mburu M, Cole SR. Nonparametric estimation of the cumulative incidence function under outcome misclassification using external validation data. *Statistics in Medicine*. 2019; 38(29): 5512-5527
 81. Ibragimov U, Beane S, Friedman SR, Komro K, Adimora AA, **Edwards JK**, Williams L, Tempalski B, Livingston MD, Stall R, Wingood G, Cooper HLF. States with higher minimum wages have lower STI rates among women: Results of an ecological study of 66 US metropolitan areas, 2003-2015. *PloS one*. 2019;14(10).
 82. **Edwards JK**, Htoo PT, Stürmer T. Keeping the demons at bay when handling time varying exposures: beyond avoiding immortal person time. *American Journal of Epidemiology*. 2019;188(6):1016-1022
 83. Lesko CR, **Edwards JK**, Moore RD, Lau B. Censoring for loss to follow-up in time-to-event analyses of composite outcomes or in the presence of competing risks. *American Journal of Epidemiology*. 2019; Nov 1;30(6):817-24
 84. Breskin A, Westreich D, Cole SR, **Edwards JK**. Using bounds to compare the strength of exchangeability assumptions for internal and external validity. *American Journal of Epidemiology*. 2019; 188(7): 1355 - 1360
 85. Verdery AM, Weir S, Reynolds Z, Mulholland GM, **Edwards JK**. Estimating Hidden Population Sizes with Venue Based Sampling: Extensions of the Generalized Network Scale-up Estimator. *Epidemiology*. 2019; 30(6):901.
 86. Stoner MCD, Rucinski KB, **Edwards JK**, Selin A, Hughes JP, Wang J, Agyei Y, Gomez-Olive

- FX, Macphail C, Kahn K, Pettifor A. The relationship between school dropout and pregnancy among adolescent and young women in South Africa: A HPTN 068 analysis. *Health Behavior and Education*. 2019; 1090198119831755
87. Cole SR, Hudgens MG, **Edwards JK**, Brookhart MA, Richardson DB, Westreich D, Adimora A. Nonparametric bounds for the risk function. *American Journal of Epidemiology*. 2019; 29;188(4):632-6.
 88. Horner MJ, Chasimpha S, Spoerri A, **Edwards JK**, Tweya H, Tembo P, Nkhambule F, Phiri EM, Miller WC, Cole SR, Olshan AF, Bohlius J, Malisita K, Phiri S, Dzamalala C, Gopal S. High Cancer Burden Among Antiretroviral Therapy Users in Malawi: a Record Linkage Study of Observational HIV Cohorts and Cancer Registry Data. *Clinical Infectious Diseases*. 2019; 69(5): 829-835
 89. Datta A, Lin W, Rao A, Diouf D, Kouame A, **Edwards JK**, Bao L, Louis TA, Baral S. Bayesian estimation of MSM population in Cote d'Ivoire. *Statistics and Public Policy*. 2019; 1;6(1):1-3
 90. Singh K, Changier G, Lau B, **Edwards JK**, Moore RD, Lesko CR. Association of history of injection drug use with external cause-related mortality among persons linked to HIV care in an urban clinic, 2001-2015. *AIDS and Behavior*. 2019; 23(12): 3286-3293
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- time-dependent confounding. *Epidemiology* (Cambridge, Mass.). 2014;25(6):898-901.
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COMMENTARIES, LETTERS, AND BOOK CHAPTERS

1. Wirth KE, **Edwards JK**, Feinstein L, Breskin A. When emulating a trial, do as the trialists do: Missteps in estimating relative effectiveness of a severe acute respiratory syndrome coronavirus 2 vaccine booster dose. *Clinical Infectious Diseases*. 2023 Jan 1;76(1):176-7.
2. Lesko CR, Fox MP, **Edwards JK**. Epidemiologic questions require context. *American Journal of Epidemiology*. 2023; *In press*
3. Lesko CR, Fox MP, **Edwards JK**. Describing health threats. *American Journal of Epidemiology*. 2022; *In press*
4. Lesko CR, Fox MP, **Edwards JK**. Lesko et al. Respond to "The Importance of Descriptive Epidemiology". *American journal of epidemiology*. 2022 Nov 19;191(12):2073-4
5. Cole SR, Zivich PN, **Edwards JK**, Ross RK, Shook-Sa BE, Price JT, Stringer JSA. Missing Outcome Data in Epidemiologic Studies. *American Journal of Epidemiology*. 2022; *In press*
6. **Edwards JK**, Cole SR, Adimora AA. Remdesivir and COVID-19. *The Lancet*. 2020 Oct 3;396(10256):953.
7. Westreich D, van Smeden M, **Edwards JK**. COMMENT ON WILLIAMSON ET AL.(OpenSAFELY): the Table 2 fallacy in a study of COVID-19 mortality risk factors. *Epidemiology*. 2021; 32(1):e1-2
8. **Edwards JK**, and Lessler J. What now? Epidemiology in the wake of a pandemic. *American Journal of Epidemiology*. 2020; 190(1):17-20
9. Lesko CR, Buchanan, AL, Westreich D, **Edwards JK**, Hudgens MG, Cole SR. Re: Generalizing study results: a potential outcomes perspective. The authors respond. *Epidemiology*. 2018;

29(2), e14-e15

10. Cole SR, Chu H, Brookhart MA, **Edwards JK**. Re: Dogmatists cannot learn. The authors respond. *Epidemiology*. 2017; 28(6), e62-e63
11. Keil A, **Edwards JK**. Bias in environmental epidemiology. In: *Encyclopedia of Environmental Health*, 2e. 2017

INVITED PRESENTATIONS

1. Accounting for outcome misclassification in causal risk functions. Joint Statistical Meetings. Washington DC, 9 August 2022
2. Fusion designs for measurement error. Society for Epidemiologic Research. Chicago IL, 16 June 2022
3. Exploring the elevation in mortality among people with HIV in the era of effective therapy. Epidemiology Student Association Seminar Series. University of California – Los Angeles, Department of Epidemiology, 19 October 2021
4. Fractional Imputation. Society for Epidemiologic Research. Online. 25 Jun 2021
5. Estimating the sizes of key populations: considerations for design and analysis. CDC Key Population Surveillance and Estimates: Recent Advances and Future Directions Technical Working Group. 24 May 2021
6. Exploring the elevation in mortality among people with HIV and interventions for mitigation. University of California - Davis, Department of Epidemiology. 10 May 2021
7. Exploring the elevation in mortality among people with HIV. Harvard TH Chan School of Public Health Department of Biostatistics: HIV Working Group. 7 May 2021
8. Knowledge synthesis: informing decisions with incomplete data. University of Pennsylvania Seminar in Advanced Epidemiologic Methods. 23 April 2021
9. Exploring the elevation in mortality among people with HIV. University of Pennsylvania Center for Clinical Epidemiology and Biostatistics Departmental Seminar. 8 April 2021
10. Zen and the art of asking good questions, Society for Epidemiologic Research Annual Meeting. Online. 16 December 2020
11. Being principled about when we can be pragmatic: mechanics behind new user designs, Society for Epidemiologic Research and International Society for Pharmacoepidemiology joint webinar. 29 January 2020
12. A flexible approach to account for exposure measurement error in counterfactual risk functions, Joint Statistical Meetings, Denver, CO, 31 July 2019
13. Competing events: practical illustrations, Society for Epidemiologic Research Annual Meeting, Seattle, WA, 19 June 2019
14. Missing data, Society for Epidemiologic Research Annual Meeting, Seattle, WA, 21 June 2019
15. Estimating policy relevant causal effects with inverse probability weights, Keynote address at the SERdigital symposium, 13 March 2019
16. A hitchhikers guide to causal inference, Causal Inference Research Group, University of North Carolina, Chapel Hill, 7 September 2018
17. Causal inference across space and time, Society for Epidemiologic Research Annual Meeting, Baltimore, MD, 23 June 2018
18. An imputation approach to account for measurement error in marginal structural models, International Biometric Society Eastern North American Regional Meeting, Atlanta, GA, 27 March 2018
19. Integrating data from key population surveys into surveillance efforts, Measurement and Surveillance of HIV Epidemics Scientific Symposium, Johannesburg, South Africa, 7 December 2017

20. Estimating sizes of key populations as a missing data problem, UNAIDS Reference Group Meeting, London, United Kingdom, 19 October 2017
21. A randomized trial of data adaptive doubly robust estimators versus standard practice, Society for Epidemiologic Research Annual Meeting, Seattle, WA, 22 June 2017
22. A method to compare viral suppression over time in observational studies with competing events: Applied example to estimate the comparative effectiveness of raltegravir vs efavirenz, International Workshop on HIV Observational Databases, Lisbon, Portugal, 31 March 2017
23. A geographic approach to extrapolating characteristics of key populations, Population Size Estimation Technical Consultation, CDC, Atlanta, GA, 31 January 2017
24. Estimating the size, location and key characteristics of most-at-risk populations, Measurement and Surveillance of HIV Epidemics Scientific Symposium, Tallinn, Estonia, 27 October 2016
25. Disparities in the HIV care continuum in the Dominican Republic, Social Epidemiology Seminar, UNC, Chapel Hill, NC, 12 October 2016
26. Extrapolation of data from key population surveys and programs, AIDS, Durban, South Africa, 18 July 2016
27. Scaling up interventions on the HIV care continuum: a practical example of meeting in the middle, Epidemiology Congress of the Americas, Miami, FL, 24 June 2016
28. External validity and the transportability of internally valid effects, Epidemiology Congress of the Americas, Miami, FL, 22 June 2016
29. Measurement error and causal inference: Incorporating measurement error into the potential outcomes framework, Workshop on Measurement Error and Complex Data, College Station, TX, 22 April 2016
30. Estimating risk functions for cause-specific mortality when cause of death may be misclassified, International Workshop on HIV Observational Databases, Budapest, Hungary, 8 April 2016
31. Quantitative methods to extrapolate size estimates: a geographic approach, Strategic information for key populations technical consultation, UNAIDS, Geneva, Switzerland, 9 March 2016
32. Benefits of unique identifiers for studying the HIV care and treatment cascade, Strategic information for key populations technical consultation, UNAIDS, Geneva, Switzerland, 8 March 2016
33. Age at entry into care, timing of antiretroviral therapy initiation, and 10-year mortality among HIV-seropositive adults in the United States, International Workshop on HIV Observational Databases, Catania, Sicily, 27 March 2015
34. Missing data in epidemiologic analyses, UNC Annual Epidemiologic Methods Workshop, 10 October 2014
35. Estimating effects of interventions, Society for Epidemiologic Research, Seattle, WA, 27 June 2014
36. Loss to follow-up and mortality among US HIV-infected antiretroviral therapy initiators, Society for Epidemiologic Research, Seattle, WA, 26 June 2014
37. Missing data and causal inference, Causal inference research group, University of North Carolina, Chapel Hill, 7 February 2014
38. Incorporating retention in care into estimates from observational HIV cohort studies: implications for evaluation and inference, Biostatistics seminar, University of California, Berkeley, School of Public Health, 13 November 2013
39. Methods to account for misclassification of cause-specific mortality, Society for Epidemiologic Research, Boston, MA, 21 June 2013

40. Comparison of three causal models to control time-varying confounding in a cohort of bone marrow transplant recipients, Causal inference research group, University of North Carolina, Chapel Hill, 7 September 2012

TEACHING

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Gillings School of Global Public Health

Instructor

Advanced Epidemiologic Methods	2021, 2022
Epidemiologic Analysis of Time to Event Data	2018, 2019
SAS Programming and Data Management	2012

Coinstructor

Epidemiologic Analysis of Time to Event Data	2020
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Teaching Assistant

Epidemiologic Analysis of Time to Event Data	2012, 2013
Quantitative Methods in Epidemiology	2011
Fundamentals of Epidemiology	2009

Guest Lecturer

Epidemiologic Analysis of Time to Event Data	2013, 2015 - 2017
Analytic Methods in Observational Epidemiology	2014
Fundamentals of Epidemiology	2015
Clinical Trials	2018
Design of Clinical Research Studies	2022

School of Law

Guest Lecturer

Scientific Evidence	2021
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OTHER SHORT COURSES, SEMINARS, AND WORKSHOPS

Guest lecturer , Advanced Topics in Epidemiologic Methods University of Pennsylvania, Philadelphia, PA	2021, 2022
Co-instructor , Capture-Recapture Workshop North Carolina State Health Department, Raleigh, NC	January 2019
Instructor , Priorities for local AIDS control efforts workshop Cape Town, South Africa	January 2016

FUNDING

CURRENT

Co-Principal Investigator, NIH/NIGMS R01GM140564 (MPI: J. Edwards & J. Lessler)
2/1/2021 – 1/31/2025 \$1,533,000 (direct) Merging machine learning and mechanistic models to improve prediction and inference in emerging epidemics
The purpose of the proposed project is to improve inference, forecasting and decision making in response to emerging infectious diseases by developing a framework to integrate mechanistic and statistical approaches to epidemic modeling and causal inference. Approaches developed will be

validated and applied prospectively to reduce morbidity and mortality in emerging public health crises.

Co-Principal Investigator, NIH/NIAID R01AI157758 (MPI: J. Edwards & S. Cole)

8/1/2020 – 7/31/2025 \$2,500,000 (direct)

Improved analyses of experiments and observational studies in HIV

In this work, we propose new and improved estimators of the risk (or survival) function to improve inference from randomized and nonrandomized HIV studies using new methods at the interface of statistics, epidemiology, causal inference, and artificial intelligence.

Co-investigator, M163P365F001-S02 CIDRZ (PI: M Herce)

09/10/2020 – 8/31/2022 \$116,997 (direct)

Application of Implementation Science approaches to assess the effectiveness of Task-shifted WHO-PEN to address cardio metabolic complications in people living with HIV in Zambia

This study aims to apply empirically supported implementation science strategies, including task shifting, audit and feedback, and eHealth clinical decision support to integrate management of cardiovascular disease risk factors and cardiometabolic complications of HIV within a robust HIV service delivery platform in Lusaka, Zambia.

Co-investigator, UM1AI069423-15S1 NIH/NIAID (MPI: J Eron, D Wohl, and M Herce)

02/01/2007 – 11/30/2027

HIV/AIDS Clinical Trials Unit (CTU) COVID-19 RadX-UP - Supplement

The major goals of this supplement are to improve testing access for underserved communities being missed by current testing approaches, and will generate new insights into a promising implementation strategy that can be leveraged to enhance ongoing pandemic response efforts and future delivery of COVID-19 vaccines and other prevention interventions once available.

Co-investigator, 2P30AI050410-24 NIH/NIAID (PI: R. Swanstrom, A. Adimora)

08/20/2001 – 05/31/2026

The University of North Carolina Center for AIDS Research

The UNC Center for AIDS Research provides essential infrastructure support for the wide range of HIV related research for its members. This research contributes to the major goals of Ending the HIV Epidemic and HIV prevention and cure, and has overarching public health impact.

PAST

Principal Investigator, NIH/NIAID K01AI125087 (PI: J. Edwards)

12/15/2016 – 12/14/2021 \$658,028 (direct)

Comparative effectiveness of tailored HIV treatment plans and mortality

The overall goal of this K01 application is to optimize clinical care decisions for people living with HIV. Specifically, this project will explore how antiretroviral therapy regimens affect cause-specific mortality and how treatment plans can be tailored or personalized based on patient characteristics to improve survival.

Co-Principal Investigator, NC State Legislature (MPI: J. Edwards & D. Westreich)

6/1/2020 – 12/31/2020 \$597,641 (direct)

The Gillings Epidemiology Dashboard for NC Policymakers

The overall goal of this project is to build develop a resource center for SARS-CoV-2 testing, screening, and surveillance that will implement modern epidemiologic tools to enable better science and public health around SARS-CoV-2

Principal Investigator, NIH/NIAID CFAR Administrative Supplement (PI: J. Edwards)

8/1/2019 – 7/31/2020 \$100,000 (direct)

Developing novel tools to understand the HIV Epidemic in the United States using Big Data

This project develops and illustrates tools to leverage novel fusions of detailed, rapidly updated HIV surveillance and cohort data. The project goals are to assess and track evolving demographics of HIV diagnoses and disparities in HIV treatment outcomes in the United States.

Activity Lead, USAID AID-OAA-L-14-00004 (PI: J. Thomas)

Monitoring and Evaluation to Assess and Use Results (MEASURE) Evaluation Phase IV Project
Effect of mobility on treatment outcomes among mobile populations infected with HIV and TB in East Africa Cross-Border Regions 01/01/2018 – 3/31/2020 \$1,000,000 (total)

To estimate the impact of mobility on TB and HIV treatment outcomes among mobile and vulnerable populations coinfecting with TB and HIV in East Africa cross border regions.

Principal Investigator, UNC CFAR Developmental Award (PI: J. Edwards)

11/1/2015 – 10/31/2016 \$30,000 (direct)

Examining causes of death among patients with HIV in the United States

To present critical information on trends in causes of death among patients with HIV in the United States.

Activity Lead, USAID AID-OAA-L-14-00004 (PI: J. Thomas)

Monitoring and Evaluation to Assess and Use Results (MEASURE) Evaluation Phase IV Project

Impact evaluation of the Cross Border Health Integrated Partnership Project

06/01/2015 – 12/31/2016 \$1,871,000 (total)

To estimate the impact of the cross border health integrated partnership project, a multifaceted structural intervention implemented in 10 cross border sites in 5 countries in East Africa

Phylogenetic analysis of HIV infections in cross border sites in East Africa

08/01/2016 – 05/01/2017 \$790,000 (total)

To identify and describe HIV transmission clusters occurring among key populations in cross border sites in East Africa and to describe patterns of resistance to antiretroviral medications in these populations.

Activity Lead Linkages across the continuum of HIV services for key populations affected by HIV (PI: S. Weir) Improving estimates related to the HIV care continuum in the Dominican Republic (Activity Lead: J. Edwards)

10/01/2015 – 12/31/2016 \$300,000 (total)

To improve estimates of virologic suppression for sex workers and men who have sex with men in care for HIV in the Dominican Republic

Principal Investigator, New Aid Foundation Grant for the study of neglected tropical diseases. (PI: J. Edwards)

7/1/2010 - 7/1/2011 \$4000 (direct)

t. cruzi infection and cognitive development in primary school children in rural Nicaragua To provide information to local public health leaders on the prevalence of Chagas disease among children in rural Nicaragua and to assess the extent to which Chagas disease affects cognitive development.

MENTORING

Doctoral thesis committee chair (in progress)

1. Leah Sadinski

Doctoral thesis committees (in progress)

1. Amrita Rao (JHU EPI)
2. Rachael Ross
3. Kate Lemasters
4. Erica Zeno
5. Samantha Tulenko
6. Brittany Trottier
7. Sam Rosin (UNC BIOS)

Current doctoral students (pre-dissertation phase)

1. Ning Zhang
2. Caitlin Cassidy

Doctoral thesis committee chair (completed)

1. Grace Mulholland, Epidemiology, UNC, 2021: "Using enriched clinical cohort data to inform interventions for TB control in the Lake Victoria Region of East Africa"
2. Lauren Zalla, Epidemiology, UNC, 2022: "Racial disparities in HIV care and mortality in the modern treatment era"

Masters thesis committees (completed)

1. Grace Mulholland, Epidemiology, UNC, 2016
2. Jackie Rudolph, Epidemiology, UNC, 2016

Doctoral thesis committees (completed)

1. Marie Stoner, Epidemiology, UNC, 2017
2. Bradley Saul, Biostatistics, UNC, 2017
3. Marie-Josophe Horner, Epidemiology, UNC, 2018
4. Terra Fatuski, Epidemiology, UNC, 2018
5. Jackie Rudolph, Epidemiology, UNC, 2019
6. Michael Webster-Clark, Epidemiology, UNC, 2019
7. Lisa Albert, Epidemiology, UNC, 2019
8. Molly Deutsch-Feldman, Epidemiology, UNC, 2020
9. Nicholas Brazeau, Epidemiology, UNC, 2020
10. Tiffany Breger, Epidemiology, UNC, 2020
11. Phyo Htoo, Epidemiology, UNC, 2020
12. Nicole Frascino, Epidemiology, UNC, 2020
13. Rebecca Stebbins, Epidemiology, UNC, 2020
14. Hillary Topazian, Epidemiology, UNC, 2021
15. Kelsey Sumner, Epidemiology, UNC, 2021
16. Lindsey Filiatreau, Epidemiology, UNC, 2021

17. Nosipho Shangase, Epidemiology, UNC, 2021
18. Cedar Mitchell, Epidemiology, UNC, 2021
19. Bryan Blette, Biostatistics, UNC, 2021
20. Matthew Romo, Epidemiology, CUNY, 2022
21. Charley Gaber, Epidemiology, UNC, 2022
22. Sophie Mayer, Epidemiology, UNC, 2022
23. Arti Virkud, Epidemiology, UNC, 2022
24. Denise St. Jean, Epidemiology, UNC, 2022

SERVICE

ACADEMIC SERVICE

Graduate Studies Committee, 2021 - Present
 SARS-CoV-2 Return to Campus Modeling Group, 2020 - Present
 Sidney Kark Distinguished Teaching Assistant Award Committee, 2015
 External dissertation reader, Yale School of Public Health, 2021

EDITORIAL RESPONSIBILITIES

Associate editor, Epidemiology, 2022 - present
Associate editor, Frontiers in Epidemiology, Infectious Diseases, 2021 - present
Associate editor, American Journal of Epidemiology, 2020 - present
Associate editor, BMC Infectious Diseases, 2018 - present
Statistical advisor, PLoS Medicine, 2019 - present

Reviewer for American Journal of Epidemiology, Epidemiology, Biometrics, Statistics in Medicine, Annals of Applied Statistics, Journal of Applied Statistics, Journal of Causal Inference, Epidemiologic Methods, Journal of Acquired Immune Deficiency Syndromes Pharmacoeconomics and Drug Safety, Journal of Clinical Epidemiology, Annals of Epidemiology, Occupational and Environmental Medicine, Antiviral Therapy, Computational and Mathematical Methods in Medicine Lifetime Data Analysis, PLOS One, Scientific Reports, Environmental Health Perspectives, Paediatric and Perinatal Epidemiology, PLoS Medicine, Brazilian Journal of Infectious Diseases, and others

PROFESSIONAL SERVICE

1. Key Population Surveillance and Estimates: Recent Advances and Future Directions Technical Working Group. CDC, Atlanta, GA, 24 May 2021
2. Co-investigator, Chatham County Community Cohort Study, Chatham County, NC, 2018 - present
3. UNAIDS Reference Group Meeting on Key Populations, Atlanta, GA, June 2, 2018
4. UNAIDS Reference Group Meeting on Estimates, Modeling and Projections, London, United Kingdom, 19 October 2017
5. Population Size Estimation Technical Consultation, CDC, Atlanta, GA, 31 January 2017
6. Strategic information for key populations technical consultation, UNAIDS, Geneva, Switzerland, 9 March 2016

SOCIETY FOR EPIDEMIOLOGIC RESEARCH

<i>Executive Committee</i> , Member-at-large & Liaison to Education Committee	2021-Present
<i>Member</i>	2009-Present

Publication committee member

2015–2018

Symposium session chair at annual meeting:

2022 - "On teaching advanced epidemiologic methods" (scheduled)

2019 - "The elephant in the room: Causal inference in the face of competing events"

2018 - "Epidemiologic research with incomplete and imperfect data: making progress in the face of uncertainty"

2017 - "Putting the 'Implementation' back into Implementation Science: Moving beyond the 'Implications' of Epidemiologic Research"

2016 - "Meeting in the middle: systems science and causal inference"

2015 - "Bayesian methods and causal inference"

2014 - "Selection bias due to loss: An old and often ignored problem revisited"

2013 - "Recording nature's answers: Measurement bias in epidemiology"

Symposium session chair at mid-year meeting:

2022 - "Methods to address the dual pandemics of COVID-19 and health disparities"