JOSEPH W. HOGAN, Sc.D.

Carole and Lawrence Sirovich Professor of Public Health Professor and Chair of Biostatistics Brown University School of Public Health Box G-S121-7 Providence, RI 02912

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EDUCATION

1987 BS Mathematics University of Connecticut

1991 MS Statistics University of Southern California

1995 ScD Biostatistics Harvard University

Dissertation: Mixture Models for Joint Distribution of Repeated Measures and Event Times

Advisor: Nan Laird

ACADEMIC APPOINTMENTS

1995 – 1999	Assistant Professor of Biostatistics (Research Track), Brown University
1999 - 2003	Assistant Professor of Biostatistics (Tenure Track), Brown University
2001 - 2003	Manning Assistant Professor, Brown University
2003 - 2008	Associate Professor of Biostatistics (Tenured), Brown University
2005 (Spring)	Visiting Scholar. Department of Mathematics, UC San Diego and Health Services Research & Development Unit, VA Hospital, San Diego
2010 (Spring)	Visiting Scholar, Moi University and AMPATH, Eldoret, Kenya
2008 – pres.	Professor of Biostatistics (Tenured), Brown University
2017 - pres.	Carole and Lawrence Sirovich Professor of Public Health, Brown University

ACADEMIC LEADERSHIP POSITIONS

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	1999 - pres.	Biostatistics Core Co-Director, Providence-Boston Center for AIDS Research	
	2003 (Spring)	Acting Director, Center for Statistical Sciences, Brown University	
	2003 - 2011	Director of Graduate Studies , Biostatistics Graduate Program, Brown University	
	2008 - pres.	Co-Director of Biostatistics, AMPATH Consortium Research Program (US/Kenya)	
	2009 (Fall)	Acting Section Head, Biostatistics Section, Program in Public Health, Brown U	
	2010 - 2016	Biostatistics Core Director, Alcohol Research Center in HIV (ARCH), Brown U	
	2013 (Fall)	Acting Chair, Department of Biostatistics, Brown University	
	2013 - 2015	Design & Analysis Core Director , Center for Nervous System Function, Brown U	
	2015 - 2016	Associate Dean for Faculty Affairs, School of Public Health, Brown University	
	2017 - 2018	Chair, Department of Biostatistics, Brown University	
	2017 - pres.	Deputy Director , Data Science Initiative, Brown University	
	2020 - pres.	Chair , Department of Biostatistics, Brown University	

IOINT APPOINTMENTS AND AFFILIATIONS

1996 – pres. Core Faculty Member, Population Studies and Training Center, Brown University

-	1996 – 1999	Assistant Professor (Research). Department of Ob/Gyn, Brown University
-	1999 – 2003	Assistant Professor. Department of Obstetrics & Gynecology, Brown University
2	2003 – 2008	Associate Professor. Department of Obstetrics & Gynecology, Brown University
2	2014 – pres.	Training Faculty , Center for Alcohol and Addiction Studies, Brown University
CON	ISULTING	
	1995	Pfizer, Inc.
	1995 –1996	McKinney Project, University of Massachusetts - Boston
	1996 – 2004	RI Department of Health and MCH Evaluation
	2003	Bristol-Myers Squibb, Inc.
	2005 – 2006	Novartis Pharmaceuticals
	2006 – 2011	World Health Organization
	2008	Rhode Island Foundation
	2011 – 2012	Forest Laboratories, Jersey City NJ
	2013	American Research Institute
	2016	Merck
	2017	Johnson & Johnson
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EDITORIAL POSITIONS		
-	1997 – 2005	Associate Editor, Biometrics
2	2001 – 2009	Associate Editor, Lifetime Data Analysis
2	2001 – 2012	Associate Editor, Biostatistics
2	2012 – 2017	Associate Editor, Journal of the American Statistical Association (A&CS)
2	2015 – 2017	Statistical Editor, American Journal of Obstetrics & Gynecology
4	2014 – pres.	Associate Editor, Observational Studies
2	2019 – pres.	Statistical Editor, New England Journal of Medicine
ОТН	IFR PROFFSS	IONAL POSITIONS
		Mathematics Teacher, St Monica High School, Santa Monica CA
	1989	Girls Basketball Coach (JV), Notre Dame Academy, Los Angeles
,	1987 – 1991	Mathematics Instructor, Project Upward Bound, Occidental College, Los Angeles
-	1993 – 1995	Freshman Proctor (Advisor), Harvard College, Cambridge MA
ACA	DEMIC HONG	DRS & AWARDS
	1987	Honors Scholar in Mathematics, University of Connecticut
-	1991	Outstanding Teaching Assistant in Mathematics, University of Southern California
	1991 - 1993	NIH National Research Service Award, Harvard University
-	1994	Student Travel Award, Biometric Society Spring Meetings
2	2001-2003	Manning Assistant Professorship, Brown University
2	2008	Fellow of the American Statistical Association
2	2019	Outstanding Statistical Application Award, American Statistical Association

2020

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Statistical Association

Institute of Mathematical Statistics

International Biometric Society (ENAR)

American Association for the Advancement of Science

PUBLICATIONS (* denotes trainee coauthor; § denotes co-senior author)

A. Articles in peer-reviewed journals

- 1. Colpaert C, **Hogan JW**, Genest D, Roberts D, Reid L, Kozakewich H (1995). Increased muscularization of small pulmonary arteries in preterm infants of diabetic mothers. *Pediatric Pathology and Laboratory Medicine* 15, 689-705. PMID: 8597856
- 2. **Hogan JW**, Laird NM (1996). Intent-to-treat analysis for incomplete repeated measures data. *Biometrics* 52, 1002-1017. PMID: 8805765
- 3. Peipert JF, Boardman L, **Hogan JW**, Sung J, Mayer KH (1996). Laboratory evaluation of acute upper genital tract infection, *Obstetrics and Gynecology* 87, 730-736. PMID: 8677076
- 4. **Hogan JW**, Laird NM (1997). Mixture models for the joint distribution of repeated measures and event times. *Statistics in Medicine* 16, 239-258. PMID: 9004395
- 5. **Hogan JW**, Laird NM (1997). Model-based approaches to analyzing incomplete repeated measures and failure time data. *Statistics in Medicine* 16, 259-271. PMID: 9004396
- 6. Frishman GN, Canick JA, **Hogan JW**, Hackett RJ, Kellner LH, Saller DN (1997). Serum triplemarker screening in *in vitro* fertilization and naturally conceived pregnancies. *Obstetrics & Gynecology* 90, 98-101. PMID: 9207822
- 7. Star J, Rosene K, Ferland J, DiLeone G, **Hogan JW**, Kestin A (1997). Flow cytometric analysis of platelet activation throughout normal gestation. *Obstetrics & Gynecology* 90, 562-568. PMID: 9380316
- 8. Seifer DB, Lambert-Messerlian G, **Hogan JW**, Gardiner AC, Blazar AS, Berk CA (1997). Day 3 serum inhibin-B is predictive of assisted reproductive technologies outcome. *Fertility and Sterility* 67, 110-114. PMID: 8986693
- 9. Blazar AS, **Hogan JW**, Seifer DB, Frishman GN, Wheeler CA, Haning RV (1997). The impact of hydrosalpinx on successful pregnancy in tubal factor infertility by in vitro fertilization. *Fertility and Sterility* 67, 517-520. PMID: 9091340
- 10. Frishman G, Schwartz T, **Hogan JW** (1997). Closure of Pfannensteil skin incisions: staples versus subcuticular suture. *Journal of Reproductive Medicine* 42, 627-630.
- 11. Clark MA, Rakowski W, Kviz FJ, **Hogan JW** (1997). Age and stage of readiness for smoking cessation. *Journal of Gerontology: Social Sciences* 52B, S212-S221.
- 12. DiSilvestro P, Peipert JF, **Hogan JW**, Granai CO (1997). Prognostic value of clinical variables in ovarian cancer. *Journal of Clinical Epidemiology* 50, 501-505.
- 13. Gordinier ME, Steinhof M, **Hogan JW**, Peipert JF, Gajewski WH, Granai CO (1997). S-phase fraction, p53 mutation, and HER-2/neu status as predictors of nodal metastasis in early vulvar cancer. *Gynecologic Oncology* 67, 200-202.

- 14. **Hogan JW**, Laird NM (1998). Increasing efficiency from censored survival data using random effects from longitudinal covariates. *Statistical Methods in Medical Research* 7, 28-48. PMID: 9533260
- 15. Yao Q, Wei LJ, **Hogan JW** (1998). Analysis of incomplete repeated measurements with dependent censoring times. *Biometrika* 85, 139-150.
- 16. McGrath ME, **Hogan JW**, Peipert JF (1998). A prevalence study of abuse and screening for abuse in urgent care patients. *Obstetrics & Gynecology* 91, 511-514.
- 17. Myers DL, LaSala CA, **Hogan JW**, Rosenblatt PL (1998). The effect of posterior wall support defects on urodynamic parameters in stress urinary incontinence. *Obstetrics Gynecology* 91, 710-714.
- 18. **Hogan JW**, Peipert JF (1998). Power and sample size. *Clinical Obstetrics and Gynecology* 41, 257-266.
- 19. Silver HM, Lambert-Messerlian GM, Star JA, **Hogan JW**, Canick JA (1999). Comparison of maternal serum total activin A and inhibin A in normal, preeclamptic and non-proteinuric gestational hypertensive pregnancy. *American Journal of Obstetrics Gynecology* 180, 1131-1137.
- 20. Clark MA, **Hogan JW**, Kviz FJ, Prochaska TR (1999). Age and the role of symptomatology in readiness to quit smoking. *Addictive Behaviors* 24, 1-16.
- 21. Griffin J, **Hogan JW**, Buechner J, Leddy T (1999). The effect of a Medicaid managed-care program on the adequacy of prenatal care. *American Journal of Public Health* 89, 497-501.
- 22. Dexter SC, Malee MP, Pinar H, **Hogan JW**, Carpenter MW, Vohr BR (1999). Influence of chorioamnionitis on developmental outcome in very low birth weight infants. *Obstetrics & Gynecology* 94, 267-273.
- 23. Peipert JF, **Hogan JW**, Gifford D, Chase E, Randall R (1999). Strength of indication for cesarean delivery: a comparison of private physicians and resident service labor management. *American Journal of Obstetrics & Gynecology* 181, 435-439.
- 24. Flanigan TP, **Hogan JW**, Smith D, Schoenbaum E, Vlahov D, Schuman P, Mayer K (1999). Self-reported bacterial infections among HIV seropositive and at-risk women. *Clinical Infectious Diseases* 29, 608-612.
- 25. Cu S, **Hogan JW**, Warren D, Klein RS, Peipert J, Schuman P, Holmberg S, Anderson J, Schoenbaum E, Vlahov D, Mayer K (1999). Prevalence of lower genital tract infections among HIV-seropositive and high-risk HIV-seronegative women. *Clinical Infectious Diseases* 29, 1145-1150.
- 26. Boardman LA, Peipert JF, **Hogan JW**, Cooper AS (1999). Positive cone biopsy specimen margins in women infected with the human immunodeficiency virus. *American Journal of Obstetrics and Gynecology* 181, 1395-1399. PMID: 10601919
- 27. Star J, **Hogan JW**, Sosa MEB, Carpenter MW (2000). Glucocorticoid-associated maternal hyperglycemia: a randomized trial of insulin prophylaxis. *Journal of Maternal Fetal Medicine* 9, 273-277.
- 28. Phipps MG, **Hogan JW**, Peipert JF, Messerlian G, Canick JA, Seifer DB (2000). Progesterone, inhibin, and hCG multiple marker strategies to differentiate viable from nonviable pregnancies. *Obstetrics & Gynecology* 95, 227-231.
- 29. **Hogan JW**, Blazar AB (2000). Hierarchical logistic regression models for clustered binary outcomes in IVF-ET. *Fertility and Sterility* 73, 575-581.
- 30. Daniels MJ, **Hogan JW** (2000). Reparameterizing the pattern mixture model for sensitivity analysis under informative dropout. *Biometrics* 56, 1241-1248.

- 31. Yasuhi I, **Hogan JW**, Canick JA, Sosa MB, Carpenter MW (2001). Midpregnancy serum C-peptide concentration and subsequent pregnancy-induced hypertension. *Diabetes Care* 24, 743-747.
- 32. Fiore T, Flanigan T, **Hogan JW**, Cram R, Schuman P, Schoenbaum E, Solomon L, Moore J. HIV Infection in families of HIV positive and 'at-risk' HIV-negative women (2001). *AIDS Care* 13, 209-214.
- 33. Krieger N, Waterman P, Lemieux K, Zierler S, **Hogan JW** (2001). On the wrong side of the tracts? Evaluating accuracy of geocoding for public health research. *American Journal of Public Health* 91, 1114-1117.
- 34. Vivier PM, **Hogan JW**, Simon P, Leddy T, Dansereau LM, Alario AJ (2001). A statewide assessment of lead screening histories of preschool children enrolled in a Medicaid managed care program. *Pediatrics* 108, e29.
- 35. Cu S, **Hogan JW**, Caliendo AM, Mayer KH, Carpenter CCJ (2001). Association between bacterial vaginosis and expression of HIV-1 RNA in the female genital tract. *Clinical Infectious Diseases* 33. 894-896.
- 36. Carpenter MW, Canick JA, **Hogan JW**, Shellum C, Somers M, Star JA (2001). Amniotic fluid insulin at 14-20 weeks gestation: association with later maternal glucose intolerance and birth macrosomia. *Diabetes Care* 24, 1259-1263. [PMID 11315841] [DOI]
- 37. Tashima KT, **Hogan JW**, Gardner LI, Korkontzelou C, Schoenbaum E, Schuman P, Rompalo A, Carpenter CCJ. (2001). A longitudinal analysis of hospitalization and emergency room utilization among HIV-infected women reporting protease inhibitor use between 1995-1999. *Clinical Infectious Diseases* 33, 2055-2060.
- 38. Stone VE, **Hogan JW**, Schuman P, Rompalo AM, Howard AA, Korkontzelou C, Smith DK (2001). Antiretroviral regimen complexity, self-reported adherence, and HIV patients' understanding of their regimens: A survey of women in the HER Study. *Journal of Acquired Immune Deficiency Syndrome (JAIDS)* 28, 124-131.
- 39. Borrelli B, **Hogan JW**, Bock B, Pinto B, Roberts M, Marcus B (2002). Predictors of quitting and dropout among women in a clinic-based smoking cessation program. *Psychology of Addictive Behaviors* 16, 22-27.
- 40. Allen S, Shah AC, Nezu AM, Nezu CM, Ciambrone D, **Hogan JW**, Mor V (2002). A problem-solving approach to stress reduction among younger women with breast cancer: A randomized controlled trial. *Cancer* 94, 3089-3100.
- 41. Cu-Uvin S, *Ko H, Jamieson DJ, Hogan JW, Schuman P, Anderson J, Klein RS (2002). Prevalence, incidence, and persistence or recurrence of trichomoniasis among HIV-positive and among HIV-negative women at high risk for HIV infection. *Clinical Infectious Diseases* 34, 1406-1411.
- 42. Olson CM, Rennie D, Cook D, Dickersin K, Flanagin A, **Hogan JW**, Zhu Q, Reiling J, Pace B (2002). Publication bias in editorial decision making. *Journal of the American Medical Association* 287, 2825-2828.
- 43. Sheu M, **Hogan JW**, Allsworth J, Stein M, Vlahov D, Schoenbaum EE, Schuman P, Gardner L, Flanigan T (2002). Continuity of medical care and risk of incarceration in HIV-positive and high-risk HIV-negative women. *Journal of Women's Health* 11, 743-750.
- 44. **Hogan JW**, Daniels MJ (2002). A hierarchical modeling approach to analyzing longitudinal data with dropout and treatment cessation, with application to an AIDS clinical trial. *Applied Statistics (JRSS-C)* 51, 1-21. DOI 10.1111/1467-9876.04615

- ***Dukic V, Hogan JW** (2002). A Bayesian hierarchical model of embryo implantation following in-vitro fertilization. *Biostatistics* 3, 361-377.
- 46. Marcus BH, Lewis BA, King TK, Albrecht AE, **Hogan JW**, Bock B, Parisi AF, Abrams DB (2003). Rationale, design, and baseline data for Commit to Quit II: An evaluation of the efficacy of moderate-intensity physical activity as an aid to smoking cessation in women. *Preventive Medicine* 36, 479-492.
- 47. Macalino GE, ***Ko H**, Celentano DD, **Hogan JW**, Schoenbaum E, Schuman P, Rich J (2003). The effects of HIV serostatus on drug use patterns in women. *Journal of Acquired Immune Deficiency Syndrome (JAIDS)* 33, 500-505.
- 48. Mayer KH, **Hogan JW**, Smith D, Klein RS, Schuman P, Margolick JB, Korkontzelou C, Farzedegan H, Vlahov D, Carpenter CCJ (2003). Clinical and immunologic progression in HIV-infected US women before and after the introduction of highly active antiretroviral therapy. *Journal of Acquired Immune Deficiency Syndrome (JAIDS)* 33, 614-624. [PMID 12902807]
- 49. Jones CY, **Hogan JW**, Snyder B, Klein RS, Rompalo A, Schuman P, Carpenter CCJ for the HERS Study Group (2003). Overweight and human immunodeficiency virus (HIV) in women: Associations between HIV progression and changes in body mass index in women in the HIV Epidemiology Research Study Cohort. *Clinical Infectious Diseases* 37, S69-S80. [PMID 12942377] [LINK]
- 50. ***Ko H, Hogan JW**, Mayer KH (2003). Estimating causal treatment effects from longitudinal HIV natural history studies using marginal structural models. *Biometrics* 59, 152-162. [PMID 12762452] [DOI]
- 51. Mahajan A, **Hogan JW**, Snyder B, Kumarasamy N, Mehta K, Solomon S, Carpenter CCJ, Mayer KH, Flanigan TP (2004). Change in total lymphocyte count as a surrogate for change in CD4 count following initiation of HAART: Implications for monitoring in resource-limited settings. *Journal of Acquired Immune Deficiency Syndrome (JAIDS)* 36, 567-575. [PMID 15097299] [LINK]
- 52. Allsworth JE, Zierler S, Lapane KL, Krieger N, **Hogan JW**, Harlow BL (2004). A longitudinal study of the inception of perimenopause in relation to lifetime history of sexual or physical violence. *Journal of Epidemiology and Community Health* 58, 938-943. [PMCID 1732619] [PMID 15483311] [DOI]
- 53. **Hogan JW**, Roy J, Korkontzelou C (2004). Biostatistics tutorial: Handling dropout in longitudinal data. *Statistics in Medicine*, 23, 1455-1497. [PMID 15116353] [DOI]
- 54. **Hogan JW**, Lancaster T (2004). Instrumental variables and inverse probability weighting for causal inference from longitudinal data. *Statistical Methods in Medical Research* 13, 17-48. [PMID 14746439] [DOI]
- 55. **Hogan JW**, Tchernis R (2004). Bayesian factor analysis for spatially correlated data, with application to deriving indices of deprivation from area-level census data. *Journal of the American Statistical Association* 99, 314-324. [JSTOR] [DOI]
- 56. **Hogan JW**, *Lee JY (2004). Marginal structural quantile models for longitudinal observational studies with time-varying treatment. *Statistica Sinica* 14, 927-944. [LINK]
- 57. **Hogan JW**, Lin X, Herman B (2004). Mixtures of varying coefficient models for longitudinal data with discrete or continuous non-ignorable dropout. *Biometrics* 60, 854-864. [PMCID 2677904] [PMID 15606405] [DOI]
- 58. Viscidi RP, Snyder B, Cu-Uvin S, **Hogan JW**, Clayman B, Klein RS, Sobel J, Shah KV (2005). Human papillomavirus (HPV) capsid antibody response to natural infection and risk of subsequent HPV infection in human immunodeficiency virus-positive and –negative women. *Cancer Epidemiology Biomarkers and Prevention* 14, 283-288. [PMID 15668510] [LINK]

- 59. Mitty JA, Macalino GE, Bazerman LB, Loewenthal HG, **Hogan JW**, MacLeod CM, Flanigan TP (2005). The use of community-based modified directly-observed therapy for the treatment of HIV-infected persons. *Journal of AIDS* 39, 545-550. [PMID 16044005] [LINK]
- 60. Marcus BH, Lewis B, **Hogan JW**, King TK, Albrecht AE, Bock B, Parisi AF (2005). The efficacy of moderate-intensity exercise as an aid for smoking cessation in women: A randomized controlled trial. *Nicotine and Tobacco Research* 7, 871-880. [PMID 16298722] [DOI]
- 61. **Hogan JW**, Scharfstein DO (2006). Estimating causal effects from multiple cycle data in studies of in vitro fertilization (IVF). *Statistical Methods in Medical Research* 15, 195-209. [PMID 16615657] [DOI]
- 62. Roy J, Alderson D, **Hogan JW**, Tashima KT (2006). Conditional inference methods for incomplete Poisson data with endogenous time-varying covariates: Emergency department use among HIV-infected women. *Journal of the American Statistical Association* 101, 424-434. [DOI]
- 63. Cu Uvin S, Snyder B, Harwell JI, **Hogan JW**, Chibwesha C, Hanley D, Ingersoll I, Kurpewski J, Mayer KH, Caliendo AM (2006). Association between paired plasma and cervicovaginal HIV-1 RNA over 36 months. *Journal of AIDS* 42, 584-587. [PMID 16837866] [DOI]
- 64. Rich JD, **Hogan JW**, DeLong AK, Mehrotra M, Reinert SE, Wolf F (2007). Low risk syringe sharing and re-use after syringe legalization in Rhode Island. *Drug and Alcohol Dependence* 89, 292-297. [PMID 17386980] [DOI]
- 65. Macalino G, **Hogan JW**, Mitty JA, Bazerman LB, DeLong AK, Loewenthal HG, Caliendo AM, Flanigan TP (2007). A randomized clinical trial of community based directly observed therapy (MDOT) as an adherence intervention for highly active antiretroviral therapy (HAART) among substance users. *AIDS* 21, 1473-1477. [PMID 17589194] [DOI]
- 66. Marcus BH, Lewis BA, Williams DM, Whitely JA, Albrecht AE, Jakicic JM, Parisi AF, **Hogan JW**, Napolitano MA, Bock BC (2007). Step into Motion: a randomized trial examining the relative efficacy of internet vs. print-based physical activity interventions. *Contemporary Clinical Trials* 28, 737-747. [PMID 17616486] [DOI]
- 67. Roy J, **Hogan JW**, Marcus BH (2008). Principal stratification with predictors of compliance for randomized trials with two active treatments. *Biostatistics* 9, 277-289. [PMID 17681993] [DOI]
- 68. Kwara A, DeLong A, Rezk N, **Hogan JW**, Burtwell H, Chapman S, Moreira CC, Kurpewski J, Ingersoll J, Caliendo AM, Kashuba A, Cu-Uvin S (2008). Antiviral drug concentrations and HIV-1 RNA in the genital tract of HIV-infected women receiving long-term highly active antiretroviral therapy. *Clinical Infectious Diseases* 46, 719-725. [PMID 18220480] [DOI]
- 69. ***Su L, Hogan JW** (2008). Bayesian semiparametric regression for longitudinal binary processes with missing data. *Statistics in Medicine* 27, 3247-3268. [PMC2581820] [PMID 18351709] [DOI]
- 70. Merchant RC, Mayer KH, Becker BM, DeLong AK, **Hogan JW** (2008). Predictors of the initiation of HIV postexposure prophylaxis in Rhode Island emergency departments. *AIDS Patient Care: STDs* 22, 41-52. [PMID 18095841] [DOI]
- 71. Kantor R, DeLong A, Kamle L, Muyonga S, Mambo F, Emonyi W, Chan P, Carter EJ, **Hogan JW**, Buziba N (2009). Misclassification of first line antiretroviral treatment failure based on immunological monitoring of HIV infection in resource-limited settings. *Clinical Infectious Diseases* 49, 454-462. [PMID 19569972] [DOI]
- 72. Phelan S, Liu T, Gorin A, Lowe M, **Hogan JW**, Fava J, Wing RR (2010). What distinguishes weight-loss maintainers from the treatment-seeking obese? Analysis of environmental,

- behavioral and psychosocial variables in diverse populations. *Annals of Behavioral Medicine* 38, 94-104. [PMID 19847584] [DOI]
- 73. ***Su L, Hogan JW** (2010). Varying coefficient models for longitudinal processes with continuous-time informative dropout. *Biostatistics* 11, 93-110. [PMID 19837655] [PMC2800163] [DOI]
- 74. Cu-Uvin S, DeLong AK, Venkatesh K, **Hogan JW**, Ingersoll J, Kurpewski J, Deasquela MP, D'Aquila R, Caliendo A (2010). Genital tract HIV-1 RNA shedding among women on highly active antiretroviral therapy with below detectable plasma viral load. *AIDS* 24, 2489-2497. [PMID 20736815] [DOI]
- 75. Wen X, Triche EW, **Hogan JW**, Shenassa ED, Buka SL (2010). Subgroups of small for gestational age based on maternal smoking status during pregnancy and adult hypercholesterolemia: A 40-year cohort study. *Epidemiology* 21, 786-790. [PMID 20798636] [DOI]
- 76. ***Su L**, **Hogan JW** (2011). HIV dynamics and natural history studies: Joint modeling with doubly interval-censored event times and infrequent longitudinal data. *Annals of Applied Statistics* 5, 400-426. [DOI] [arXiv] [PMID 27134691]
- 77. Gezmu M, DeGruttola V, Dixon D, Essex M, Halloran E, **Hogan JW**, Grobler A, Kim S, McDermott J, McKaig R, Neaton J (2011). Strengthening biostatistics resources in Sub-Saharan Africa: Research collaborations through US partnerships. *Statistics in Medicine* 30, 695-708. [PMID 21394746] [DOI]
- 78. Wen X, Triche E, **Hogan JW**, Shenassa E, Buka S (2011). Prenatal factors for childhood blood pressure mediated by intrauterine and/or childhood growth? *Pediatrics* 127, e713-721. [PMID 21300676] [DOI]
- 79. Wen X, Triche EW, **Hogan JW**, Shenassa ED, Buka SL (2011). Association between placental morphology and childhood systolic blood pressure. *Hypertension* 57, 48-55. [PMID 21079045] [DOI]
- 80. Tate DF, DeLong A, McCaffrey DE, Kertesz K, Paul RH, Conley J, Russell T, Coop K, Gillani F, Flanigan T, Tashima K, **Hogan JW** (2011). Recent clinical history and cognitive dysfunction for attention and executive function among human immunodeficiency virus-infected patients. *Archives of Clinical Neuropsychology* 26, 614-623. [PMID 21873325] [PMC 3243921] [DOI]
- 81. Tate DF, Sampat M, Harezlak J, *Fiecas M, Hogan JW, Dewey J, McCaffrey D, Branson D, Russell T, Conley C, Taylor M, Schifitto G, Zhong J, Daar ES, Alger J, Brown M, Singer E, Campbell T, McMahon D, Tso Y, Matesan J, Letendre S, Paulose S, Gaugh M, Tripoli C, Yiannoutsos C, Bigler ED, Cohen RA, Guttmann CRG, Navia B for the HIV Neuroimaging Consortium (2011). Regional areas and widths of the midsaggital corpus callosum among HIV-infected patients on stable antiretroviral therapies. *Journal of NeuroVirology* 17, 368-379. [DOI]
- 82. Papas R, Sidle J, Gakinya B, Baliddawa J, Martino S, Mwanik M, Songole R, Omol O, Kamanda A, Ayuku D, Ojwang C, Owino-Ong'or W, Harrington M, Bryant K, Carroll K, Justice A, **Hogan JW**, Maisto S (2011). Treatment outcomes of a stage-1 cognitive-behavioral trial to reduce alcohol use among HIV-infected outpatients in western Kenya. *Addiction* 106, 2156-2166. [DOI]
- 83. Bloomfield GS, **Hogan JW**, Keter A, Sang E, Carter EJ, Velazquez EJ, Kimaiyo S (2011). Hypertension and obesity as cardiovascular risk factors among HIV seropositive patients in western Kenya. *PLoS ONE* 6(7), e22288.
- 84. Braitstein P, Siika A, **Hogan JW**, Kosgei R, Sang E, Sidle J, Wools-Kaloustian K, Keter A, Mamlin J, Kimaiyo S (2012). A clinician nurse model to reduce early mortality and increase clinic retention among high-risk HIV-infected patients initiating combination antiretroviral

- treatment. *Journal of the International AIDS Society* 15, e7. [PMID 22340703] [PMC3297518] [DOI]
- 85. DeLong AK, Wu M, Bennett D, Parkin N, Wu Z, **Hogan JW**, Kantor R (2012). Sequence Quality Analysis Tool (SQUAT) for HIV-1 protease and reverse transcriptase. *AIDS Research and Human Retroviruses* 28, 894-901. [PMID 21916749] [PMC3399557] [DOI]
- 86. Ezeamama AE, McGarvey ST, **Hogan JW**, Lapane KL, Bellinger DC, Acosta LP, Leenstra T, Olveda RM, Kurtis JD, Friedman JF (2012). Treatment for *schistosoma japonicum*, reduction in intestinal parasite load, and cognitive test score improvements in school-aged children. *PLoS Neglected Tropical Diseases* 6(5), e1634. [DOI] [PMID 22563514] [PMC 3341324]
- 87. Huang A, **Hogan JW**, Istrail S, DeLong A, Kantor R (2012). Global analysis of sequence diversity within HIV-1 subtypes across geographic regions. *Future Virology* 7, 505-517. [PMID 22822410] [PMC3400699] [DOI]
- 88. Daniels MJ, Roy J, Kim C, **Hogan JW**, Perri M (2012). Bayesian inference for the causal effect of mediation. *Biometrics* 68, 1028-1036. [PMID 23005030] [DOI]
- 89. Scharfstein DO, **Hogan JW**, Herman A (2012). On the prevention and analysis of missing data in randomized clinical trials: The state of the art. *Journal of Bone and Joint Surgery* 94, 80-84. [PMID 22810454] [PMC 3393113] [DOI]
- 90. Little RJ, D'Agostino R, Cohen ML, Dickersin K, Emerson SS, Farrar JT, Frangakis C, Hogan JW, Molenberghs G, Murphy SA, Neaton JD, Rotnitzky A, Scharfstein DO, Shih W, Siegel JP, Stern H (2012). The prevention and treatment of missing data in clinical trials. New England Journal of Medicine 367, 1355-1360. [PMID 23034025] [DOI]
- 91. Bertoia ML, Triche EW, Michaud DS, Baylin A, **Hogan JW**, Neuhouser ML, Freiberg MS, Allison MA, Safford MM, Li W, Mossavar-Rahmani Y, Rosal MC, Eaton CB (2013). Long-term alcohol and caffeine intake and risk of sudden cardiac death in women. *American Journal of Clinical Nutrition* 97, 1356-1363. [PMID 23615825] [PMC3652927] [DOI]
- 92. Liu T, **Hogan JW**, ***Wang L**, Zhang S, Kantor R (2013). Optimal allocation of gold standard testing under constrained availability: Application to assessment of HIV treatment failure. *Journal of the American Statistical Association* 108, 1173-1188. [PMID 24672142] [PMCID PMC3963362]
- 93. Bertoia ML, Triche EW, Michaud DS, Baylin A, **Hogan JW**, Neuhouser ML, Tinker LF, Van Horn L, Waring ME, Li W, Shikany J, Eaton CB (2014). The Mediterranean and Dietary Approaches to Stop Hypertension (DASH) dietary patterns and risk of sudden cardiac death in postmenopausal women. *American Journal of Clinical Nutrition* 99, 344-351. [PMID 24351877] [DOI]
- 94. Li T, Huftless S, Scharfstein DO, Daniels MJ, **Hogan JW**, Little RJA, Roy JA, Law AH, Dickersin K (2014). Standards should be applied in the prevention and handling of missing data for patient-centered outcomes research: A systematic review and expert consensus. *Journal of Clinical Epidemiology* 67, 15-24. [PMID 24262770] [DOI]
- 95. Bloomfield GS, **Hogan JW**, Keter A, Holland TL, Sang E, Kimaiyo S, Velazquez EJ (2014). Blood pressure level impacts risk of death among HIV seropositive adults in Kenya: A retrospective analysis of electronic health records. *BMC Infectious Diseases* 14, e284. [PMID 24886474] [DOI]
- 96. Sorber R, Winston S, Koech J, Ayuku D, ***Hu L, Hogan J**, Braitstein P (2014). Social and economic characteristics of street youth by gender and level of street involvement in Eldoret, Kenya. *PLoS ONE* 9, e97587. [PMID 24827584] [DOI]

- 97. Atwoli L, Ayuku D, **Hogan JW**, Koech J, Vreeman RC, Ayaya S, Braitstein P (2014). Impact of domestic care environment on trauma and posttraumatic stress disorder among orphans in western Kenya. *PLoS ONE* 9, e89937. [PMID 24625395] [DOI]
- 98. Vedanthan R, Kamano JH, Naanyu V, DeLong AK, Were MC, Finkelstein EA, Menya D, Akwanalo CO, Bloomfield GS, Binanay CA, Velazquez EJ, **Hogan JW**, Horowitz CR, Inui TS, Kimaiyo S, Fuster V (2014). Optimizing linkage and retention to hypertension care in rural Kenya: Rationale and design of the LARK Hypertension Study. *Trials* 15, e143. [PMID 24767476] [DOI]
- 99. Baker LM, Laidlaw DH, Conturo TE, **Hogan JW**, Zhao Y, Luo X, Correia S, Cabeen R, Lane EM, Heaps JM, Bolzenius J, Salminen LE, Akbudak E, McMichael AR, Usher C, Behrman A, Paul RH (2014). White matter changes with age utilizing quantitative diffusion MRI. *Neurology* 83, 247-252. [PMID 24928121] [DOI]
- 100. Ayuku D, Embleton L, Koech J, Atwoli L, ***Hu L**, Ayaya S, **Hogan JW**, Nyandiko W, Vreeman R, Kamanda A, Braitstein P (2014). The Government of Kenya Cash Transfer for Orphaned and Vulnerable Children: Cross-sectional comparison of household and individual characteristics of those with and without. *BMC International Health and Human Rights* 14, e25. [PMID 25239449] [DOI]
- 101. Kantor R, DeLong A, Balamane M, Schreier L, Lloyd RM, Injera W, Kamle L, Mambo F, Muyonga S, Katzenstein D, **Hogan JW**, Buziba N, Diero L (2014). HIV diversity and drug resistance from plasma and non-plasma analytes in a large treatment program in western Kenya. *Journal of the International AIDS Society* 17, 19262. [DOI]
- 102. Lagat DK, DeLong AK, Wellenius GA, Carter JE, Bloomfield GS, Velazquez EJ, **Hogan JW**, Kimaiyo S, Sherman CB (2014). Risk factors for the development of isolated right heart failure (IRHF) in women of western Kenya: A pilot study. *Global Heart* 9, 249-254. [PMID 25667096] [DOI]
- 103. Tang L, Lyles RH, King CC, **Hogan JW**, Lo Y (2015). Regression analysis for differentially misclassified correlated binary outcomes. *Applied Statistics* 64, 433-449. [DOI]
- 104. Genberg BL, Naanyu V, Wachira J, **Hogan JW**, Sang E, Nyambura M, Odawa M, Duefield C, Ndege S (2015). Linkage to and engagement in HIV care in western Kenya: Population-based estimates from home-based counseling and testing. *Lancet HIV* 2: e20-e26. [PMID 25621303] [PMCID PMC4302338] DOI: 10.1016/S2352-3018(14)00034-4
- 105. Howe CJ, Cain LE, **Hogan JW** (2015). Are all biases missing data problems? *Current Epidemiology Reports* 2, 162-171. [PMID 26576336] [PMCID PMC4643276] DOI: 10.1007/s40471-015-0050-8
- 106. Chan PA, **Hogan JW**, Huang A, DeLong A, Salemi M, Mayer KH, Kantor R (2015). Phylogenetic investigation of a statewide HIV-1 epidemic reveals ongoing and active transmission networks among men who have sex with men. *JAIDS* 70, 428-435. [PMID 26258569] DOI: 10.1097/QAI.000000000000786
- 107. Huang A, **Hogan JW**, Luo X, DeLong A, Saravanan S, Wu Y, Sirivichayakul S, Kumarasamy N, Zhang F, Phanuphak P, Diero L, Buziba N, Istrail S, Katzenstein DA, Kantor R (2015). Global Comparison of Drug Resistance Mutations After First-Line Antiretroviral Therapy Across Human Immunodeficiency Virus-1 Subtypes. *Open Forum Infect Dis.* 3(2):ofv158. DOI: 10.1093/ofid/ofv158. PMID: 27419147
- 108. *Ott MQ, Hogan JW, Gile KJ, Linkletter C, Barnett NP (2016). Bayesian peer calibration based on network position with application to alcohol use. *Statistics in Medicine* 35, 3303-3318. PMID 26940774. DOI: 10.1002/sim.6925

- 109. Dufort EM, DeLong AK, Mann M, Nyandiko W, Ayaya SO, **Hogan JW**, Kantor R (2016). Misclassification of antiretroviral treatment failure using WHO 2006 and 2010/13 immunologic criteria in HIV-infected children and adolescents in western Kenya. *Journal of Pediatric Infectious Diseases*. DOI: 10.1093/jpids/piw018
- 110. Bloomfield GS, DeLong AK, Akwanalo CO, **Hogan JW**, Carter EJ, Aswa DF, Binanay C, Koech M, Kimaiyo S, Velazquez EJ (2016). Markers of atherosclerosis, clinical characteristics, and treatment patterns in heart failure: A case-control study of middle-aged adult heart failure patients in rural Kenya. *Global Heart* 11, 97-107. PMID 27102027. http://dx.doi.org/10.1016/j.gheart.2015.12.014
- 111. Brooks K, Diero L, DeLong AK, Balamane M, Reitsma M, Kemboi E, Orido M, Coetzer M, **Hogan JW**, Kantor R (2016). Treatment failure, drug resistance, and high K65R in Kenyan patients on Tenofovir-based 1st-line therapy. *Journal of the International AIDS Society* 19:20798. PMID 27130578. http://dx.doi.org/10.1093/jpids/piw018
- 112. Olney JJ, Braitstein P, Eaton JW, Sang E, Nyambura M, Kimaiyo S, McRobie E, **Hogan JW**, Hallett TB (2016). Evaluating strategies to improve HIV care outcomes in Kenya: A modeling study. *Lancet HIV* 3, e592-e600. PMID 27771231. PMCID PMC5121132.
- 113. Liu T, **Hogan JW**, Daniels, MJ, Coetzer M, ***Xu Y**, Bove J, Delong AK, Ledingham L, Orido M, Diero L, Kantor R (2017). Improved HIV-1 viral load monitoring capacity using pooled testing with marker-assisted deconvolution. *Journal of AIDS* 75, 580-587. PMID 28489730. PMCID PMC5503773 http://dx.doi.org/10.1097/QAI.0000000000001424
- 114. Vedanthan R, Kamano JH, Lee H, Andama B, Bloomfield GS, DeLong AK, Edelman D, Finkelstein EA, **Hogan JW**, Horowitz CR, Manyara S, Menya D, Naanyu V, Pastakia SD, Valente TW, Wanyonyi CC, Fuster V (2017). Bridging income generation with group integrated care for cardiovascular risk reduction: Rationale and design of the BIGPIC study. *American Heart Journal* 188, 175-185. http://dx.doi.org/10.1016/j.ahj.2017.03.012
- 115. Were LPO, Were E, Wamai R, **Hogan JW**, Galarraga O (2017). The association of health insurance with institutional delivery and access to skilled birth attendants: evidence from the Kenya Demographic and Health Survey 2008-09. BMC Health Services Research 17, 454. PMID: 28673344 PMCID: PMC5496351 DOI: 10.1186/s12913-017-2397-
- 116. Lee H, **Hogan JW**, Genberg BL, Wu X, Musick B, Mwangi A, Braitstein PB (2018). A state transition framework for patient-level modeling of engagement and retention in HIV care using longitudinal cohort data. *Statistics in Medicine* 37, 302-319. PMID: 29164648. PMCID: PMC5735035. DOI: 10.1002/sim.7502
- 117. Olney JJ, Eaton JW, Braitstein P, **Hogan JW**, Hallett TB (2018). Optimal timing of home-based counselling and testing rounds in western Kenya. *Journal of the International AIDS Society* 6, e25142. DOI 10.1002/jia2.25142. PMID: 29883052. PMCID: PMC5993164
- 118. *Hu L, Hogan JW, Mwangi AM, Siika A (2018). Modeling the causal effect of treatment initiation time on survival: Application to HIV/TB coinfection. *Biometrics* 74, 703-713. DOI: 10.1111/biom.12780 PMID: 28960243. PMCID: PMC5874166.

 American Statistical Association Award for Best Applied Statistics Paper in 2018
- 119. Howe CJ, Dulin-Keita A, Cole SR, **Hogan JW**, Lau B, Moore RD, Matthews WC, Crane HM, Drozd DR, Geng E, Boswell SL, Napravnik S, Eron JJ, Mugavero MJ for the CNICS (2018). Evaluating the population impact of intervening on specific targets to reduce HIV racial/ethnic disparities in adulthood: A conceptual and methodological framework. *American Journal of Epidemiology* 187, 316-325. DOI: 10.1093/aje/kwx247 PMID: 28992096. PMCID: PMC5860258

- 120. Lee H, ***Wu X**, Mugavero MJ, Cole SR, Lau B, **Hogan JW** (2018). Beyond binary retention in HIV care: Predictors of the dynamic process of engagement, disengagement and re-entry into care in a US clinical cohort. *AIDS* 32, 2217-2225. DOI: 10.1097/QAD.000000000001936. PMID: 30005018. PMCID: PMC5735035.
- 121. Genberg BL, Lee H, **Hogan JW**, Some F, Wachira J, ***Wu XK**, Braitstein P (2018). Point of diagnosis and patient retention in HIV care in western Kenya. *Journal of AIDS* 78, 383-389. PMID: 29649078. DOI: 10.1097/QAI.000000000001703
- 122. Dulin AJ, Sannisha DK, Earnshaw VA, Fava JL, Mugavero MJ, Napravnik S, **Hogan JW**, Carey MP, Howe CJ (2018). Resilience and HIV: A review of the definition and study of resilience. *AIDS Care*, 30:sup5, S6-S17. DOI 10.1080/09540121.2018.1515470 *Top Ten Most Downloaded Articles in AIDS Care for 2019*
- 123. *Ott MQ, Harrison M, Gile K, Barnett N, Hogan JW (2019). Fixed choice design and augmented fixed choice design for network data with missing observations. *Biostatistics* 20, 97-110. PMID: 29267874. PMCID: PMC6296337. DOI: 10.1093/biostatistics/kxx066
- 124. *Xu Y, Liu T, Daniels MJ, Kantor R, Mwangi A, Hogan JW (2019). Classification using ensemble learning under weighted misclassification loss. *Statistics in Medicine* 38, 2002-2012. PMID: 30609090. DOI: 10.1002/sim.8082
- 125. Vreeman RC, Nyandiko WM, Marete I, Mwangi A, McAteer CI, Keter A, Scanlon ML, Ayaya SO, Aluoch J, **Hogan JW** (2019). Evaluating a patient-centred intervention to increase disclosure and promote resilience for children living with HIV in Kenya. AIDS 33 (Suppl 1), S93-S101. PMID 31397727. DOI: 10.1097/QAD.000000000002183
- 126. *Hu L, Hogan JW (2019). Causal comparative effectiveness analysis of dynamic continuoustime treatment initiation rules with sparsely measured outcome and death. *Biometrics* 75, 695-707. PMID: 30638268. DOI: 10.1111/biom.13018
- 127. Genberg BL, **Hogan JW**, ***Xu Y**, Nyambura M, Tarus C, Rotich E, Kafu C, Wachira J, Goodrich S, Braitstein P (2019). Population-based estimates of engagement in HIV care and mortality using double-sampling methods following home-based counseling and testing in western Kenya. PLoS ONE 14, e0223187. PMID 31577834. PMCID PMC6774575. DOI: 10.1371/journal.pone.0223187
- 128. Osetinsky B, Genberg BL, Bloomfield GS, **Hogan JW**, Pastakia S, Sang E, Ngressa A, Mwangi A, Lurie MN, McGarvey ST, Galárraga O (2019). Hypertension control and retention in care among HIV-infected patients: The effects of co-located HIV and chronic noncommunicable disease care. Journal of Acquired Immune Deficiency Syndromes 82: 399-406. PMID 31658183. PMCID PMC6822379. DOI: 10.1097/QAI.000000000002154
- 129. Vedanthan R, Kamano JH, DeLong AK, Naanyu V, Binanay CA, Bloomfield GS, Chrysanthopolou SA, Finkelstein EA, **Hogan JW**, Horowitz CR, Inui TS, Menya D, Orango V, Velazquez EJ, Were MC, Kimaiyo S, Fuster V (2019). Community health workers improve linkage to hypertension care in western Kenya. Journal of the American College of Cardiology 74, 1897-1906. PMID 31487546. PMCID PMC6788970. DOI 10.1016/j.jacc.2019.08.003
- 130. *Ott MQ, Gile KJ, Harrison MT, Johnston LG, Hogan JW (2019). Reduced bias for respondent driven sampling: accounting for non-uniform edge sampling probabilities in people who inject drugs in Mauritius. *Applied Statistics (JRSS-C)* 68, 1411-1429. DOI: 10.1111/rssc.12353
- 131. Humphrey J, Genberg B, Keter A, Musick B, Apondi E, Gardner A, **Hogan JW**, Wools-Kaloustian K (2019). Viral suppression among HIV-infected children and their caregivers in western Kenya. *Journal of the International AIDS Society* 22, e25272. PMID 30983148. PMCID PMC6462809. DOI: 10.1002/jia2.25272

- 132. Kim C, Daniels MJ, **Hogan JW**, Choirat C, Zigler CM (2019). Bayesian methods for multiple mediators: principal stratification and causal mediation analysis of power plant emission controls. *Annals of Applied Statistics* 13, 1927-1956. DOI: 10.1214/19-AOAS1260 *Honourable Mention for 2019 Mitchell Prize, International Society for Bayesian Analysis*
- 133. Were LPO, Were E, Wamai R, **Hogan JW**, Galarraga O (2020). Effects of social health insurance on access and utilization of obstetric health services: Results from HIV+ pregnant women in Kenya. *BMC Public Health* 20, e87. https://doi.org/10.1186/s12889-020-8186-y
- 134. Orang'o EO, Emont JP, Ermel AC, Liu T, *Omodi V, Tong Y, Istura PM, Tonui PK, Maina T, Ogh'echa JM, Muthoka K, Kitpoo S, **Hogan JW**, Loehrer PJ, Brown D, Cu Uvin S. Detection of types of HPV among HIV-infected and HIV-uninfected Kenyan women undergoing cryotherapy or loop electrosurgical excision procedure. *Gynecology & Obstetrics* 151, 279-286. https://doi.org/10.1002/ijgo.13330
- 135. Novitzky V, Steingrimsson J, Howison M, Gillani F, Li Y, Manne A, Fulton J, Spence M, Parillo Z, Marak T, Chan P, Bertrand T, Bandy U, Alexander-Scott N, Dunn C, **Hogan JW**, Kantor R (2020). Empirical comparison of analytical approaches for identifying molecular HIV-1 clusters. *Scientific Reports* 10, 18547. https://doi.org/10.1038/s41598-020-75560-1 PMID 33122765
- 136. *Kimaina A, Dick JJ, DeLong AK, Chrysthanthopoulou S, Kantor R, Hogan JW (2020). Comparison of machine learning methods for predicting viral failure: A case study using electronic health record data. *Statistical Communications in Infectious Diseases* 12(s1). https://doi.org/10.1515/scid-2019-0017
- 137. Aroke HA, Buchanan AL, Bratberg J, **Hogan JW**, Rich JD, Wen X, Kogut SJ (2021). Initial patterns of initial prescription opioid use and risk of mortality among insured adults in the United States. *Journal of Addiction Medicine* 15, 99-108. https://doi.org/10.1097/ADM.000000000000001 PMID 32769771
- 138. Liu T, **Hogan JW** (2021). Unifying instrumental variable and inverse probability weighting approaches for inference of causal treatment effect and unmeasured confounding in observational studies. *Statistical Methods in Medical Research* 30, 671-686. https://doi.org/10.1177/0962280220971835. PMID 33213292
- 139. Chan P, King E, Xu Y, Goedel W, Lasher L, Vargas M, Brindamour K, Huard R, Clyne A, McDonald J, Bandy U, Yokum D, Rogers M, Chambers L, Napoleon S, Alexander-Scott N, **Hogan JW** (2021). Seroprevalence of SARS-CoV-2 antibodies in Rhode Island from a statewide random sample. *American Journal of Public Health*, 111, 700-703. https://doi.org/10.2105/AJPH.2020.306115 PMID 33600249. PMCID PMC7958024
- 140. Lee K, Tilling K, Cornish R, Little RJA, Bell M, Goetghebeur E, **Hogan JW**, Carpenter J (2021). Framework for the treatment and reporting of missing data in observational studies: the Treatment and Reporting of Missing Data in Observational Studies (TARMOS) framework. *Journal of Clinical Epidemiology* 134, 79-88. https://doi.org/10.1016/j.jclinepi.2021.01.008 PMID 33539930.
- 141. Genberg BL, Wachira J, Steingrimsson JA, Pastakia S, Tran DNT, Said JA, Braitstein P, **Hogan JW**, Vedanthan R, Goodrich S, Kafu C, Wilson-Barthes M, Galarraga O. Integrated community-based HIV and non-communicable disease care within microfinance groups in Kenya: study protocol for the Harambee cluster randomized trial. *BMJ Open* 11, e042662. https://doi.org/10.1136/bmjopen-2020-042662
- 142. Vedanthan R, Kamano JH, Chrystanhopoulou SA, *Mugo R, Andama B, Bloomfield GS, Chesoli CW, DeLong AK, Edelman D, Finkelstein EA, Horowitz C, Manyara S, Menya D, Naanyu V, Orango V, Pastakia SD, Valente TW, §Hogan JW, §Fuster V (2021). Group medical visits and microfinance for patients with diabetes or hypertension in Kenya: BIGPIC Trial. *Journal of*

- *the American Association of Cardiology* 77, 2007-2018. http://doi.org/10.1016/j.jacc.2021.03.002 PMID 33888251. PMCID PMC8065205.
- 143. Sikka N, DeLong A, Kamano J, Kimaiyo S, Orango V, Fuster V, **Hogan JW**, Vedanthan R (2021). Sex differences in healthcare utilization and costs among individuals with elevated blood pressure: The LARK study from western Kenya. *BMC Public Health* 21, 948. https://doi.org/10.1186/s12889-021-10995-3 PMID 34011345. PMCID PMC8136119.
- 144. Ayaya S, DeLong A, Embleton L, Ayuku D, Sang E, **Hogan JW**, Kamanda A, Atwoli L, Makori D, Ott MA, Ombok C, Braitstein P (2021+). Prevalence, incidence and chronicity of child abuse among orphaned, separated and street-connected children and adolescents in western Kenya: What is the impact of care environment? Child Abuse & Neglect, in press. https://doi.org/10.1016/j.chiabu.2020.104920. PMID 33485648
- 145. Novitzky V, Steingrimsson J, Howison M, Dunn C, Gillani F, Manne A, Li Y, Spence M, Parillo Z, Fulton J, Marak T, Chan P, Bertrand T, Bandy U, Alexander-Scott N, **Hogan JW**, Kantor R (2021). Longitudinal typing of molecular HIV clusters in a statewide epidemic. *AIDS* 35, 1711-1722. https://doi.org/10.1097/QAD.00000000000002953. PMID 34033589.
- 146. **Hogan JW**, Galai N, David WG. Modeling the impact of social determinants of health on HIV. *AIDS and Behavior*, in press. https://doi.org/10.1007/s10461-021-03399-2 View only link: https://rdcu.be/cw8Zp
- 147. Ruchman SG, DeLong AK, Kamano JH, Bloomfield GS, Chrysanthopolou SA, Fuster V, Horowitz CR, Kiptoo P, Matelong W, *Mugo R, Naanyu V, Orango V, Pastakia SD, Valente TW, Hogan JW, Vedanthan R (2021). Egocentric social network characteristics and cardiovascular risk among patients with hypertension or diabetes in western Kenya: A cross sectional analysis from the BIGPIC trial. *BMJ Open* 11:e049610. https://doi.org/10.1136/bmjopen-2021-049610
- 148. Genberg B, Wilson-Barthes M, *Omodi V, Hogan JW, Steingrimsson J, Wachira J, Pastakia S, Tran DN, Kiragu ZW, Ruhl L, Rosenberg M, Kimaiyo S, Galarraga O (2021). Microfinance, retention in care and mortality among patients enrolled in HIV care in western Kenya. *AIDS* 35, 1997-2005. https://doi.org/10.1097/QAD.000000000002987
- 149. Nesbitt DJ, Jin DP, **Hogan JW**, Yang J, Chen H, Chan PA, Simon MJ, Vargas M, King E, Huard RC, Bandy U, Hillyer CD, Luchsinger LL. Low seroprevalence of SARS-CoV-2 in Rhode Island blood donors during May 2020 as determined using multiple serological assay formats. BMC Infectious Diseases 21, 871. DOI: 10.1186/s12879-021-06438-4 PMID 34433423. PMCID PMC8386143

B. Book

1. Daniels MJ, **Hogan JW** (2008). *Missing Data in Longitudinal Studies: Strategies for Bayesian Modeling and Sensitivity Analysis.* Chapman & Hall. [LINK]

C. Book Chapters

- 1. Peipert JF, **Hogan JW** (2001). Research Design and Fundamental Biostatistics, pp. 137-157 in *Physiological Basis of Gynecology and Obstetrics* (eds. Seifer DB, Samuels P, Kniss DA), Lippincott Williams & Wilkins, Baltimore.
- 2. Krieger N, Zierler S, **Hogan JW**, Waterman P, Chen J, Lemieux K, Gjelsvik A (2003). Geocoding and measurement of neighborhood socioeconomic position: a U.S. perspective, pp. 147-178 in *Neighborhoods and Health* (eds. Kawachi I and Berkman LF), Oxford University Press, New York.

- 3. **Hogan JW** (2005). GEE and missing data in longitudinal studies, pp. 139-154 in *Advancing Heath Outcomes Research: Methods and Clinical Applications* (eds. Lenderking WR and Revicki DA), Degnon Associates, McLean VA.
- 4. Daniels MJ, **Hogan JW** (2014). Bayesian inference with incomplete data, in *Handbook of Missing Data Methodology* (eds Molenbergs G, Fitzmaurice G, Kenward MG, Tsiatis A, Verbeke G), Chapman & Hall / CRC Press.
- 5. **Hogan JW**, Daniels MJ, ***Hu L** (2014). Bayesian sensitivity analysis, in *Handbook of Missing Data Methodology* (eds Molenbergs G, Fitzmaurice G, Kenward MG, Tsiatis A, Verbeke G), Chapman & Hall / CRC Press.

D. Papers submitted or in revision

- 1. Liu T, **Hogan JW**, Su W, Xu Y, Daniels MJ, Kantor R. Informed pooled testing with quantitative assays. Submitted September 2021.
- 2. Buchanan A, Sun T, Wu J, Aroke H, Bratberg J, Rich J, Kogut S, **Hogan JW**. Toward evaluation of disseminated effects of medications for opioid use disorder within provider-based networks using routinely collected data. Revised and resubmitted, September 2021.
- 3. Nyandiko W, Holland S, Vreeman RC, DeLong A, Manne A, Novitzky V, Ngeresa A, Chory A, Alouch J, Orido M, Jepkemboi E, Soya S, Caliendo S, Ayaya S, **Hogan JW**, Kantor R. HIV-1 treatment failure, drug resistance and clinical outcomes in perinatally infected children and adolescents failing first-line antiretroviral therapy in western Kenya. Submitted April 2021.
- 4. Aroke HA, Sun T, Bratberg J, Wu J, **Hogan JW**, Rich JD, Kogut SJ, Buchanan AL. Toward estimation of causal effects of time-varying exposure to prescription opioids on all cause mortality among insured adults in the United States. Submitted March 2021.
- 5. ***Xu Y, Hogan JW,** Daniels MJ, Kantor R, Mwangi A. Inference for BART with multinomial outcomes. Submitted March 2021.

E. Commentary & Discussion

- 1. **Hogan JW** (2007). Discussion of 'Analysis of longitudinal data with drop-out: Objectives, assumptions and a proposal' by Diggle, Farewell and Henderson (invited). *Applied Statistics* 56, 530-531. [DOI]
- 2. **Hogan JW**, *Liu T (2008). Mediation analysis for intervention trials: objectives, models and inference (invited commentary). *Health Services Outcomes Research Methodology* 8, 77-79. [DOI]
- 3. **Hogan JW** (2009). Considerations for sensitivity analysis with likelihood-based models (invited discussion of 'Missing data methods in longitudinal studies: a review' by JG Ibrahim and G Molenberghs). *TEST* 18, 59-64. [DOI] Corrections 18, 607. [DOI]
- 4. **Hogan JW** (2009). Bringing causal inference into the mainstream (invited commentary). *Epidemiology* 20, 431-432. [PMID 19363354] [DOI] Comment/Rejoinder 20, 931-932. [DOI]
- 5. Genberg BL, **Hogan JW**, Braitstein P (2016). Home testing and counselling with linkage to care. *Lancet HIV* 3(6), e244-6. doi: 10.1016/S2352-3018(16)30032-7. PMID: 27240786
- 6. Harrington D, D'Agostino RB, Gatsonis C, **Hogan JW**, Hunter DJ, Normand S-L T, Drazen JM, Hamel MB (2019). New guidelines for statistical reporting in the Journal. *New England Journal of Medicine* 381, 285-286. DOI: 10.1056/NEJMe1906559
- 7. Rubin EJ, Harrington DP, **Hogan JW**, Gatsonis C, Baden LR, Hamel MB (2020). The urgency of care during the Covid-19 pandemic learning as we go. *New England Journal of Medicine* 382, 2461-2462. DOI: 10.1056/NEJMe2015903

- 8. Pastakia SD, Braitstein P, Galarraga O, Genberg B, Said J, Vedanthan R, Wachira J, **Hogan JW** (2020). Preserving two decades of healthcare gains for Africa in the coronavirus disease 2019 era. *AIDS* 34, 1761-1763. DOI: 10.1097/QAD.0000000000002605 PMID 32889851
- 9. Rubin EJ, for the Editors (2020). Dying in a leadership vacuum. *New England Journal of Medicine* 383, 1479-1480. DOI: 10.1056/NEJMe2029812
- 10. Harrington DP, Baden LR, **Hogan JW** (2021). A large, simple trial leading to complex questions. *New England Journal of Medicine* 386, 576-577. DOI: 10.1056/NEJMe2034294
- 11. Dean NE, **Hogan JW**, Schnitzer ME (2021). Covid-19 vaccine effectiveness and the test-negative design. New England Journal of Medicine, in press. DOI: 10.1056/NEJMe2113151

F. Coauthored Committee Reports

- 1. Committee on Asbestos: Selected Health Effects (2006). *Asbestos: Selected Cancers.* National Academies Press, Washington. [LINK]
- 2. Panel on Handling Missing Data in Clinical Trials. *The Prevention and Treatment of Missing Data in Clinical Trials* (2010). National Academies Press, Washington. [LINK]
- 3. Li T, Huftless S, Dickersin K, Scharfstein D, Neaton J, **Hogan JW**, Little RJ, Daniels MJ, Roy J, Mor V, Law A (2012). Minimal standards in the prevention and handling of missing data in observational and experimental patient-centered outcomes research. Guidance document prepared for Patient Centered Outcomes Research Institute (PCORI).

G. Book Reviews

- 1. **Hogan JW** (2010). Review of *Longitudinal Data Analysis* edited by G Fitzmaurice, M Davidian, G Verbeke and G Molenberghs. *Biometrics* 66, 995-996. [DOI]
- 2. **Hogan JW** (2019). Review of *Causal Inference in Statistics: A Primer*, by Pearl, Glymour and Jewell. *Biometrics* 75, 708-709. DOI: 10.1111/biom.13079

H. Letters

- 1. Hogan JW (1997). Statistics usage in the American Journal of Obstetrics and Gynecology. *American Journal of Obstetrics and Gynecology* **176**, 1118-1119.
- 2. Blazar AS, **Hogan JW**, Frankfurter D, Hackett R, Keefe DL (2004). Serum estradiol positively predicts outcomes in patients undergoing in vitro fertilization. *Fertility and Sterility* **81**, 1707-1708.

I. Opinion

1. 'In climate debate, charged words supplant reason'. *Providence Journal*, October 17, 2015. http://www.providencejournal.com/article/20151017/OPINION/151019427

INVITED LECTURES AND PRESENTATIONS

- 1. June 1994. Annual Meeting of the AIDS Clinical Trials Group, Washington.
- 2. December 1995. Psychiatric Epidemiology and Biostatistics Colloquium, Harvard Medical School.
- 3. March 1996. Institute for Statistics, Ludwig Maximilians University, Munich.
- 4. September 1996. Department of Statistics, University of Connecticut.
- 5. October 1996. Department of Epidemiology and Biostatistics, Yale University.
- 6. March 1997. Biometric Society (ENAR) Spring Meetings, Memphis.
- 7. April 1997. Department of Biostatistics, Harvard University.
- 8. November 1997. Department of Biostatistics, Harvard University.
- 9. February 1998. Society of Perinatal Obstetricians Annual Meeting, Miami.
- 10. April 1998. Department of Biostatistics, Johns Hopkins University.
- 11. April 1998. Department of Biostatistics, University of Rochester.
- 12. March 1999. Department of Biostatistics, Harvard University.
- 13. March 1999. Department of Mathematics and Statistics, Lancaster University, UK.
- 14. April 1999. Invited Panelist, Conference on Informatively Missing Data, Department of Statistics, Texas A&M University.
- 15. May 1999. Division of Biostatistics, Columbia University.
- 16. May 1999. Breast Cancer Research Grants Program, Massachusetts Department of Public Health, Boston.
- 17. November 1999. Department of Biostatistics, University of North Carolina.
- 18. February 2000. Workshop on Sensitivity Analysis for Dropout Models, Katholieke Universiteit Leuven (Belgium).
- 19. March 2000. Invited discussant, ENAR Spring Meetings, Chicago.
- 20. July 2000. Invited discussant, 20th International Biometric Society Conference, Berkeley.
- 21. September 2000. 21st Meeting, International Society of Clinical Biostatistics, Trento, Italy.
- 22. November 2000. Department of Mathematics and Statistics, Boston University.
- 23. November 2000. Gerontological Society of America Annual Meetings, Washington.
- 24. March 2001. Serono International Symposium on Frontiers in Reproductive Endocrinology, Washington.
- 25. April 2001. Department of Biostatistics, University of Pittsburgh.
- 26. April 2001. Department of Mathematics and Statistics, University of Massachusetts.
- 27. December 2001. Population Studies Training Center, Brown University.
- 28. February 2002. Department of Biostatistics, Columbia University.
- 29. February 2002. Department of Community Health, Brown University.
- 30. March 2002. Invited discussant, ENAR Spring Meetings, Arlington VA.
- 31. April 2002. Center for AIDS Research Colloquium, Miriam Hospital, Brown University.
- 32. August 2002. IMS/ASA/SIAM Summer Research Conference, Mt. Holyoke College.
- 33. August 2002. Joint Statistical Meetings, New York, NY.
- 34. October 2002. Department of Statistics, Harvard University.
- 35. November 2002. Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania.

- 36. March 2003. Serono Symposium on Frontiers in Reproductive Endocrinology, Savannah.
- 37. August 2003. Joint Statistical Meetings, San Francisco.
- 38. December 2003. Department of Biostatistics, Harvard School of Public Health.
- 39. February 2004. Center for Health Quality, Outcomes & Economic Research, Bedford MA.
- 40. May 2004. NICHD National Children's Study Workshop on Expanding Methodologies for Capturing Day-Specific Probability of Conception. Rockville MD.
- 41. June 2004. Epidemiology Branch, Division of HIV Prevention, CDC, Atlanta.
- 42. June 2004. International Society for Quality of Life Research Symposium on Advancing Outcomes Research Methodology, Boston.
- 43. February 2005. Division of Biostatistics, UC San Diego.
- 44. March 2005. Serono Symposium on Frontiers in Reproductive Endocrinology, Washington.
- 45. April 2005. Workshop on Biomarkers in HIV and Cancer, Mathematical Biosciences Institute, Department of Mathematics, Ohio State University.
- 46. April 2005. Department of Statistics, UC Irvine.
- 47. April 2005. Department of Epidemiology and Biostatistics, UC San Francisco.
- 48. May 2005. Annual Meeting of the Society of Clinical Trials, Portland OR.
- 49. June 2005. Annual Meeting of Academy Health, Boston.
- 50. August 2005. Joint Statistical Meetings, Minneapolis.
- 51. December 2005. Exposure/Response Best Practices Conference, Drug Information Agency, Philadelphia.
- 52. February 2006. Department of Biostatistics, University of Pennsylvania.
- 53. April 2006. Department of Biostatistics, Yale University.
- 54. June 2006. International Chinese Statistical Association Annual Symposium, University of Connecticut.
- 55. August 2006. Joint Statistical Meetings, Seattle.
- 56. December 2006. Department of Biostatistics, Vanderbilt University.
- 57. December 2006. Statistical Research and Consulting Center, Pfizer Inc., New London.
- 58. March 2007. ENAR Spring Meetings, Atlanta.
- 59. March 2007. Serono Symposium on Frontiers in Reproductive Endocrinology, Washington.
- 60. April 2007. Lead discussant for read paper session, Royal Statistical Society, London.
- 61. August 2007. Joint Statistical Meetings, Salt Lake City.
- 62. September 2007. Department of Mathematics, University of Connecticut.
- 63. September 2007. Biostatistics Branch, NIAID, Washington.
- 64. January 2008. Department of Epidemiology, Johns Hopkins University.
- 65. May 2008 (discussant). Mid Atlantic Conference on Causal Inference, Johns Hopkins University.
- 66. August 2008 (panelist). Joint Statistical Meetings, Denver.
- 67. October 2008. Department of Biostatistics, Indiana University School of Medicine.
- 68. October 2008. Department of Biostatistics, University of Texas MD Anderson Cancer Center.
- 69. January 2009. Informative priors for handling missing data. Bayesian Biostatistics Conference, Division of Quantitative Sciences, UT MD Anderson Cancer Center.

- 70. February 2009. Informative priors for handling missing data. Division of Biostatistics, Albert Einstein College of Medicine, Bronx NY.
- 71. March 2009. ENAR Spring Meetings, San Antonio.
- 72. April 2009. Informative priors for handling missing data. Department of Biostatistics, Harvard School of Public Health
- 73. August 2009. Semiparametric estimation of causal mediation effects. Joint Statistical Meetings, Washington DC.
- 74. December 2009. Semiparametric estimation of causal mediation effects. Division of Biostatistics, University of Pennsylvania.
- 75. December 2009. Principal stratification and complier-averaged causal effects. Criminal Justice Drug Abuse Treatment Studies (CJ-DATS) Network. Phoenix, AZ.
- 76. January March 2010. Modern Biostatistical Methods for Clinical Research (4 lectures). Moi University School of Medicine, Eldoret, Kenya.
- 77. February 2010. Biostatistical Methods and AMPATH Research. Kenya Medical Research Institute (KEMRI), Kisumu, Kenya.
- 78. June 2010. Survival Analysis. Department of Mathematics and Computer Science, Moi University Science Campus, Chepkoilel, Kenya.
- 79. June 2010. Biostatistical Methods and AMPATH Research. Department of Statistics, Purdue University.
- 80. June 2010. Handling Missing Data in Longitudinal Studies (invited workshop). AcademyHealth Annual Meetings, Boston.
- 81. August 2010. Bounds on average treatment effect and unmeasured confounding bias in observational studies with continuous outcome. Joint Statistical Meetings, Vancouver.
- 82. March 2011. Statistical methods for evaluation of nutrition supplementation for HIV-infected individuals receiving antiviral therapy. International Biometric Society / ENAR Annual Meetings, Miami.
- 83. April 2011. Causal inference for censored event times, with application to treatment of HIV/TB coinfection in western Kenya. Department of Biostatistics, Harvard School of Public Health.
- 84. April 2011. Optimizing diagnosis of HIV first line treatment failure with selective use of viral load testing in resource limited settings. Workshop on Statistical Methods in HIV Research, Centre de Recherches de Mathématiques, Université de Montréal.
- 85. May 2011. Imputation-based inference for natural direct and indirect effects. Conference on Causal Inference in Health Research, Centre de Recherches de Mathématiques, Université de Montréal.
- 86. May 2011. Causal inference for survival times and current events with censored exposure. Workshop on Analysis of Survival and Event History Data, Centre de Recherches de Mathématiques and Fields Institute, Université de Montréal.
- 87. October 2011. Sensitivity analysis for incomplete data in clinical trials. International Conference on Health Policy Statistics, American Statistical Association, Cleveland.
- 88. November 2011. Sensitivity analysis in clinical trials. Biopharmaceutical Applied Statistics Symposium 18th Annual Conference, Savannah.
- 89. January 2012. Causal mediation analysis with multiple mediators. Winter Workshop, University of Florida.

- 90. February 2012. Imputation-based inference for natural direct and indirect effects. Statistics and Probability Seminar, Department of Mathematics and Statistics, University of Massachusetts, Amherst.
- 91. March 2012. Causal mediation analysis with multiple mediators. International Biometric Society / ENAR Annual Meetings, Washington DC.
- 92. December 2012. Sensitivity analysis for longitudinal clinical trials with dropout. American Society for Quality Deming Conference on Applied Statistics, Atlantic City.
- 93. February 2013. Symposium on Quantitative Methods for Implementation Science & Translational Research (invited discussant). Harvard School of Public Health.
- 94. March 2013. Methods for mediation analysis in alcohol intervention studies. International Biometric Society / ENAR Annual Meetings, Orlando.
- 95. March 2013. Optimal allocation of gold standard testing under constrained availability: HIV treatment monitoring for resource limited settings. Department of Statistics, Wharton School, University of Pennsylvania.
- 96. April 2013. Optimal allocation of viral load testing for monitoring first line therapy in resource constrained settings (invited poster). 17th International Workshop on HIV Observational Databases, Cavtat, Croatia.
- 97. August 2013. Bayesian inference with unmeasured confounding. Joint Statistics Meetings, Montreal.
- 98. November 2013. Optimal allocation of gold standard testing under constrained availability: HIV treatment monitoring for resource limited settings. Department of Biostatistics, Emory University School of Public Health.
- 99. October 2014. Bayesian inference and sensitivity analysis with missing data. ASA Biopharmaceutical Section FDA-Industry Statistics Workshop, Washington DC.
- 100. October 2014. Data science training and capacity building in sub-Saharan Africa. Meeting on CFAR HIV Research in International Settings (CHRIS), San Diego.
- 101. December 2014. HIV treatment monitoring for resource limited settings: data-driven methods to optimize utility of viral load testing. Biostatistics Research Branch, NIAID, Washington DC.
- 102. February 2015. Antiviral therapy for HIV-infected children in Kenya: Statistical methods for estimating effect and informing guidelines. Biostatistics and Bioinformatics Branch, NICHD, Washington DC.
- 103. March 2015. Representations of unmeasured confounding and implications for sensitivity analysis. ENAR Spring Meetings, Miami.
- 104. March 2015. Data-driven nonlinear models for causal effect of cART on growth parameter dynamics in HIV-infected children. Invited poster, International Workshop on HIV Observational Databases (IWHOD), Catania, Italy.
- 105. May 2015. The role of biostatistics and data science in improving care, treatment and outcomes in resource-constrained settings. CFAR Grand Rounds, Perelman School of Medicine, University of Pennsylvania.
- 106. May 2015. Bayesian inference with unmeasured confounding. Department of Biostatistics and Epidemiology, Perelman School of Medicine, University of Pennsylvania.
- 107. May 2015. Representations of unmeasured confounding and implications for sensitivity analysis. Atlantic Causal Inference Conference, Wharton School, University of Pennsylvania.
- 108. July 2015. Causal inference with multiple mediators. 60th World Statistics Congress, Rio de Janeiro, Brazil.

- 109. September 2015. Data-driven decision making for HIV treatment monitoring under resource constraints. Population Studies Training Center, Brown University.
- 110. October 2015. Representation of unmeasured confounding in observational studies. International Conference for Health Policy Research, Providence RI.
- 111. November 2015. State-space models for the HIV treatment cascade. NIH Workshop on Infectious Disease Research: Quantitative Methods and Models in the Era of Big Data. Bethesda, MD.
- 112. February 2016. Sensitivity analysis for unmeasured confounding: formulation, implementation, interpretation. Causal Inference Methods for Patient Outcomes Data (CIMPOD), Washington DC.
- 113. February 2016. Principal stratification and instrumental variables for estimating complier-average causal effects. Causal Inference Methods for Patient Outcomes Data (CIMPOD), Washington DC.
- 114. March 2016. Bayesian inference with unmeasured confounding. ENAR Spring Meetings, Austin TX.
- 115. June 2016. Using Electronic Health Records Data for Causal Inferences about the HIV Care Cascade. Committee on Applied and Theoretical Statistics. National Academies of Science, Washington DC.
- 116. August 2016. Assessing Causal Impacts of Policy in the HIV Care Cascade. Joint Statistical Meetings, Chicago.
- 117. October 2016. Assessing Causal Impacts of Policy in the HIV Care Cascade. Dalla Lana School of Public Health, University of Toronto.
- 118. March 2017. Using Electronic Health Records Data for Causal Inferences about the HIV Care Cascade. ENAR Spring Meetings, Washington DC.
- 119. March 2017. Effect of 'Treat Immediately' on HIV Care and Engagement in CFAR Network of Integrated Clinical Systems. International Workshop on HIV Observational Databases, Lisbon.
- 120. May 2017. Statistical Models for the HIV Care Cascade. Division of Population Health Research 50th Anniversary Conference, NICHD, Bethesda MD.
- 121. May 2017. The Perils and Promise of Electronic Health Records Data. International Biometric Society Eastern Mediterranean Region Biannual Conference, Thessaloniki Greece.
- 122. September 2017. The Perils and Promise of Electronic Health Records Data. Grand Rounds in the Department of Population Health, NYU School of Medicine.
- 123. November 2017. Statistical Methods for Improving HIV Treatment Monitoring in Kenya. Statistics and Data Science Seminar, Amherst College.
- 124. May 2018. Statistical Models for the HIV Care Cascade. Department of Biostatistics Colloquium Series, Harvard School of Public Health.
- 125. July 2018. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. Joint Statistical Meetings, Vancouver.
- 126. October 2018. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. Department of Biostatistics, Indiana University.
- 127. October 2018. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. Department of Biostatistics and Epidemiology, University of Massachusetts School of Public Health, Amherst.
- 128. October 2018. Workshop on Methods for Handling Missing Data. MD EpiNet Annual Conference, Silver Spring MD.

- 129. March 2019. Building a US-Kenya Partnership for Biostatistics Training and Research. ENAR Spring Meetings, 2019
- 130. April 2019 (Keynote). Statistical Methods for Improving and Evaluating HIV Treatment Outcomes using Electronic Health Records. Symposium on Innovations in Design, Analysis and Dissemination: Frontiers in Biomedical Data Science. University of Kansas Medical Center.
- 131. May 2019. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. CIRA Cross-Core Seminar, Yale University.
- 132. June 2019. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. Bayesian Causal Inference Workshop, Mathematical Biosciences Institute, Ohio State University.
- 133. October 2019. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. Interdisciplinary Dean's Speaker Series in Data Science (Inaugural Lecture), Binghamton University.
- 134. February 2020. Using Electronic Health Records Data for Causal and Predictive Inference about the HIV Care Cascade. University of South Carolina National Big Data Health Science Conference (Plenary Speaker), Columbia SC
- 135. August 2020. Bayesian Mediation Analysis for Cluster Randomized Trials. Joint Statistical Meetings Virtual Conference.
- 136. October 2020. Bayesian Causal Inference for the HIV Care Cascade. Department of Biostatistics, University of Michigan.
- 137. October 2020. What's in a Model? Lagakos Distinguished Alumni Award Lecture, Department of Biostatistics, Harvard University.
- 138. April 2021. Bayesian Causal Inference for the HIV Care Cascade. Department of Statistics, Penn State University.
- 139. June 2021. Discussant, <u>"Recent Advances in Causal Mediation Analysis"</u>. 4th International Conference on Econometrics and Statistics (EcoSta), Hong Kong University of Science and Technology (virtual).

SHORT COURSES

- 1. February 1998. 'Analyzing Repeated Measures Data from Longitudinal Clinical Trials,' Acer-Excel Inc., Cranford NJ.
- 2. September 1998. 'Methods and Concepts in Biostatistics,' Clinical Epidemiology and Evidence-Based Medicine Conference, Women & Infants' Hospital and Brown University School of Medicine, Providence.
- 3. May 1999. 'Handling Dropout in Longitudinal Clinical Trials.' Eli Lilly Inc., Indianapolis.
- 4. July 2000 and July 2001. 'Analyzing Longitudinal Data.' 20th Annual Epidemiology Summer Program (sponsored by Epidemiology Research Institute, Tufts University and Boston University).
- 5. March 2001. 'Statistical Methods for Handling Missing Data in Longitudinal Studies.' Society of Behavioral Medicine Annual Meetings, Seattle.
- 6. December 2001. 'Modeling Longitudinal Data' (joint with Jason Roy), International Conference on Health Policy Research, Boston.
- 7. Hogan JW (2002). Data Analytic Challenges In In-vitro Fertilization and Assisted Reproductive Technologies. (Serono Symposium Web-Based Course RHI0802).

- 8. February 2004. 'Mediators and Moderators in Behavioral Medicine: Review, Application and Appraisal of Statistical Methodology.' Pittsburgh Mind-Body Center, University of Pittsburgh and Carnegie Mellon University.
- 9. August 2007. 'Missing Data in Longitudinal Studies' (joint with Mike Daniels). Joint Statistical Meetings, Salt Lake City.
- 10. August 2007. 'Missing Data in Longitudinal Studies' (joint with Mike Daniels). Centers for Disease Control, Atlanta.
- 11. December 2007. 'Missing Data in Longitudinal Studies' (joint with Mike Daniels). 63rd Annual Deming Conference on Applied Statistics, Atlantic City.
- 12. March 2008. 'Missing Data in Longitudinal Studies' (joint with Mike Daniels). ENAR Spring Meetings, Washington DC.
- 13. August 2009. 'Missing Data in Longitudinal Studies' (joint with Mike Daniels). Joint Statistical Meetings, Washington DC.
- 14. December 2011. 'Practical Statistical Methods for Longitudinal and Missing Data'. Initiative for Population Research, Ohio State University.
- 15. March 2012. 'Methods for Missing Data and Sensitivity Analysis' (joint with Dan Scharfstein). International Biometric Society / ENAR Annual Meetings, Washington DC.
- 16. August 2013. 'Analysis of Longitudinal Data and Missing Data (joint with Ann Mwangi). Moi University School of Medicine / AMPATH, Eldoret, Kenya (one week course).
- 17. June 2014. 'Causal Inference and Missing Data in Health Research' (with Ann Mwangi). Moi University School of Medicine / AMPATH, Eldoret, Kenya (one week course). [WEBSITE]
- 18. September 2016. 'Case Studies in Causal Inference for HIV and Biomedical Research' (with Ann Mwangi). Moi University School of Medicine / AMPATH, Eldoret, Kenya (one week course). [WEBSITE]
- 19. July 2019. 'Multilevel Models and Cluster Randomized Trials'. Moi University School of Medicine / AMPATH, Eldoret, Kenya.

RESEARCH GRANTS AND CONTRACTS: ACTIVE

Statistical methods

Optimizing HIV Treatment Monitoring under Resource Constraints

Role: MPI (co-PI Rami Kantor, Brown U) Agency: NIH/NIAID (R01 AI108441) Period 12/01/14 - 10/31/21 NCE

Amount: \$1,869,552 (TC)

Training Grant

Moi-Brown Partnership for HIV Biostatistics Training

Role: Program Director

Agency: NIH/FIC (D43 TW010050)
Period: 06/24/15 - 05/31/21 NCE

Amount: \$1,491,292 (TC)

Interdisciplinary Collaborations

Orphaned & Separated Children's Assessment Related to their Health & Well-Being

Role: Co-investigator (subcontract PI)

PI: Paula Braitstein, PhD, Indiana University

Agency: NIH/NICHD (R01 HD060478)
Period: 6/01/15 - 05/31/21 NCE

Amount: \$759,950 (TC)

Providence-Boston Center for AIDS Research (Biostatistics Core)

Role: Co-Director of Biostatistics Core (subcontract PI)
PI: Susan Cu-Uvin, Brown University & Miriam Hospital

Agency: NIH/NIAID (P30 AI 42853) Period: 09/01/98 – 06/30/23

Amount: \$701,085 (TC)

Bridging Income Generation with Group Integrated Care (BIGPIC)

Role: Co-investigator (subcontract PI)

PI: Rajesh Vedanthan, MD, Icahn School of Medicine at Mt Sinai

Agency: NIH/NHLBI (R01 HL125487)
Period: 04/01/15 - 01/31/21 NCE

Amount: \$450,849 (TC)

HIV treatment failure and drug resistance in western Kenyan children

Role: Co-investigator (subcontract PI)

PI: Rachel Vreeman, MD, Icahn School of Medicine at Mt Sinai

Agency: NIH/NIAID (R01 AI120792) Period: 08/02/16 - 07/31/21 NCE

Amount: \$332,101 (TC)

Real Time Phylogeny and Contact Tracing to Disrupt HIV Transmission

Role: Co-investigator (subcontract PI)
PI: Rami Kantor MD, The Miriam Hospital

Agency: NIH/NIAID (R01 AI36058) Period: 03/05/18 - 02/28/23

Amount: \$712,740 (TC)

Addressing HIV drug resistance research gaps in a cohort of perinatally infected Kenyan children and adolescents

Role: Co-investigator (subcontract PI)
PI: Rami Kantor MD, The Miriam Hospital

Agency: NIH/NIAID (R01 AI147333) Period: 06/27/19 – 05/31/24

Amount: \$526,086 (TC)

Harambee: Integrated Community-Based HIV/NCD Care & Microfinance Groups in Kenya

Role: Co-investigator

PI: Omar Galarraga, PhD, Brown University

Agency: NIH/NIMH (R01 MH118075) Period: 07/05/19 - 04/30/24

Amount: \$2,756,028 (TC)

Reducing Drug-Related Mortality Using Predictive Analytics: A Randomized, Statewide, Community Intervention Trial

Role: Co-investigator

PI: Brandon Marshall, PhD, Brown University

Agency: NIH/NIDA (R01 DA046620)
Period: 09/30/19 - 07/31/24
Amount: \$3,267,708 (TC)

A Learning healthcare System in Rhode Island for COVID-19

Role: Co-investigator

PI: Elizabeth Chen, PhD, Brown University

Agency: Brown SEED Funds
Period: 05/15/20 - 05/14/21

Amount: \$14,500 (TC)

The role of resilience in addressing racial disparities in adverse HIV-related outcomes

Role: Co-investigator

PI: MPI Chanelle Howe, PhD, Brown University Akilah Dulin-Keita, PhD, Brown University

AKHAN DUHN-KERA, PHD, Brown Un

Agency: NIH (R01 MH112386)
Period: 08/25/17 - 05/31/22
Amount: \$3,581,325 (TC)

Assistantship and Faculty Service - CARES ACT

Role: Contractor (Analytics for COVID-19 Response in Rhode Island)

Agency: Rhode Island Department of Health

Period: 05/19/20 - 12/18/20

Amount: \$186,876 (TC)

Flexible Bayesian approaches to causal inference with multilevel survival data and multiple treatments with applications to high-risk prostate cancer

Role: Co-investigator (subcontract PI)

PI: Liangyuan Hu, PhD, Icahn School of Medicine at Mt Sinai

Agency: NIH (R21 CA245855) Period: 07/16/20 - 06/30/22

Amount: \$89,704 (TC)

Impact of COVID-19 on Adolescents Living with HIV in Kenya

Role: Co-investigator (subcontract PI)

PI: MPI Rami Kantor MD, The Miriam Hospital

Rachel Vreeman, MD, Icahn School of Medicine at Mt Sinai

Agency: NIH

Period: 07/01/20 - 06/30/21

Amount: \$31,643 (TC)

RESEARCH GRANTS AND CONTRACTS: COMPLETED

Statistical Methods

Training and Teaching for Transforming Big Data to Knowledge

Role: Co-investigator

PI: Neil Sarkar, PhD, Brown University
Agency: NIH/NIMH (R25 MH116440)
Period: 10/01/17 - 08/31/20

Amount: \$319,798 (TC)

Foundations of Model Driven Discovery from Massive Data

Role: Co-investigator

PI: Jeffrey Brock, PhD, Brown University

Agency: NSF

Period: 09/01/17 - 08/31/22 (NCE)

Amount: \$1,482,177 (TC)

AMPATH Oncology Institute

Role: Director of Biostatistics and Data Management Core
PI: Patrick Loehrer MD, Indiana University School of Medicine

Agency: NIH/NCI (U54 CA190151-8244)
Period: 09/14/14 - 08/31/20 NCE

Amount: \$194,728 (TC)

Alcohol and HIV: Biobehavioral Interactions and Intervention (Biostatistics Core)
Role: Co-Investigator (Director, Biostatistics Core, 9/30/10 – 6/30/16)

PI: Peter Monti, PhD, Brown University

Agency: NIH/NIAAA (P01 AA 019072)

Period: 9/30/10 - 5/31/20 Amount: \$6,506,689 (TC) New Approaches to Mediation Analysis Using Causal Inference Methods

Role: Principal Investigator

Agency: NIH/NIAAA (RC1 AA 019186)

Period: 09/30/09 - 02/28/13

Amount: \$481,042

Regression Methods for Infertility Data
Role: Principal Investigator

Agency: NIH/NICHD (R03 HD 35996)

Period: 02/01/98 - 01/31/00

Amount: \$149,888

Analyzing Multiple Process Data in HIV & AIDS

Role: Principal Investigator

Agency: NIH/NIAID (R01-AI-50505)
Period: 09/01/01 - 06/30/05

Amount: \$891,639

Analyzing Complex Longitudinal Data in Behavior Sciences

Role: Principal Investigator

Agency: NIH/NHLBI (R01-HL-79457)

Period: 08/01/04 - 07/31/08

Amount: \$770,312

Implementation of Causal Modeling Technology to Assess and Improve the Effects of Antiviral Therapy in Children

Role: PI of administrative supplement to parent grant PI: Kara Wools Kaloustian, Indiana University

Agency: NIH/NIAID (U01 AI069911)

Period 08/01/14 - 07/31/16 (no cost continuation)

Amount: \$75,000

Bayesian Approaches for Missingness and Causality in Cancer and Behavior Studies

Role: Co-I (PI of subcontract)

PI: Michael Daniels, University of Texas

Agency: NIH/NCI (R01 CA183854)
Period 03/01/13 - 02/28/18

Amount: \$338,824

Interdisciplinary collaborations

Optimizing Linkage and Retention to Hypertension Care in Rural Kenya

Role: Co-investigator (subcontract PI)

PI: Valentin Fuster, MD, Icahn School of Medicine at Mt Sinai

Agency: NIH/NHLBI (U01 HL 114200)

Period: 4/1/13 - 3/31/17

Amount: \$177,854

AMPATH Plus

Role: Co-Director, AMPATH Biostatistics Program (subcontract PI)

PI: Robert Einterz, MD, Indiana University Agency: USAID (623-A-00-0-08-00003-00)

Period: 10/01/08 - 09/30/17

Amount: \$283,943

A Stage-2 Cognitive-Behavioral Trial: Reduce Alcohol First in Kenya Intervention

Role: Co-investigator (subcontract PI)
PI: Rebecca Papas, PhD, Brown University

Agency: NIH/NIAAA (R01 AA 020805) Period: 09/01/11 – 08/31/17

Amount:

COBRE Center for Central Nervous System Function

Role: Design and Analysis Core PI
PI: Jerome Sanes, Brown University

NICMS (P20 CM 102 (45))

Agency: NIGMS (P20 GM 103645) Period: 8/15/13 - 6/30/15

Amount: \$1,774,947

Improving Linkage to HIV Care Following Release from Incarceration (LINCS)

Role: Co-investigator (subcontract PI)

PI: Josiah Rich, MD, Brown University / Miriam Hospital

Agency: NIH/NIDA (R01 DA 030778)
Period: 11/01/12 – 06/30/15

Amount: \$792,187

ASANTE Cardiovascular Pulmonary Disease Center of Excellence

Role: Co-Investigator (subcontract PI)

PI: Sylvester Kimaiyo, MD, Moi University School of Medicine, Eldoret, Kenya

Agency: NHLBI/NIH (N01-HV-98221)
Period: 07/01/09 - 06/30/14

Amount: \$622,372

HIV-1 Drug Resistance in Different Subtypes
Role: Co-investigator (subcontract PI)

PI: Rami Kantor, MD, Brown University/Miriam Hospital

Agency: NIH/NIAID (R01 AI 066922) Period: 09/01/08 - 08/31/14

Amount: \$353.869

Neuromarkers of Age-Related Cognitive Decline

Role: Co-Investigator (subcontract PI)

PI: Robert Paul, MD, University of Missouri – St. Louis

Agency: NIH/NINDS (R01 NS 052470)

Period: 07/01/07 - 06/30/14

Amount: \$291,995

Age Effects on the HIV-associated Brain Dysfunction
Role: Co-investigator (subcontract PI)

PI: Ronald Cohen, M.D., Brown University & Miriam Hospital

Agency: NIH

Period: 09/30/06 - 08/31/11

Amount: \$126,295

YMCA Exercise Program to Enhance Nicotine Dependence Treatment for Women

Role: Co-investigator (subcontract PI)

PI: Bess Marcus, Ph.D., Brown University & Miriam Hospital

Agency: NIH/NIDA (R01- DA021729 Period: 09/29/06 - 04/30/10

Amount: \$226,933

Criminal Justice / Drug Abuse Treatment Studies (CJ-DATS)
Role: Consulting Statistician (subcontract PI)

PI: Peter Friedmann, M.D., Brown University & RI Hospital

Agency: NIH/NIDA (U01-DA-16191)
Period: 09/01/06 - 08/31/08

Amount: \$59,604

Antiviral Therapy and HIV in the Genital Tract of Women Role: Co-investigator (subcontract PI)

PI: Susan Cu-Uvin, M.D., Brown University & Miriam Hospital

Agency: NIH/NIAID (R01-AI 40350)
Period: 05/01/03- 04/30/09

Amount: \$176,501

Modifying the Obesogenic Home Environment: Impact on Weight Loss

Role: Co-investigator (subcontract PI)

PI: Amy Gorin, Ph.D., Brown University & Miriam Hospital

Agency: NIH/NIAID (R01 HL 077082-01)

Period: 05/01/04 - 04/30/08

Amount: \$96,470

Epidemiological Research Studies of AIDS and HIV Infection (HERS)

Role: Co-investigator (subcontract PI)

PI: Charles C. J. Carpenter, M.D., Brown University

Agency: CDCP (U64 CCU10675)
Period: 10/01/96 - 05/31/01

Amount: \$238,404

The Demography of Child Disability and Rehabilitation

Role: Co-investigator

PI: Dennis Hogan, Ph.D., Brown University

Agency: NIH/NICHD (R03 HD 35376-02)

Period: 09/01/97 - 08/31/99

Race and the Parental Roles of Men and Women, 1880-1990

Role: Co-investigator

PI: Frances Goldscheider, Ph.D., Brown University

Agency: NIH/NICHD (R01 HD 35527-01A1)

Period: 07/01/98 - 06/30/00

Stage-Matched Intervention to Increase Dual Method Use

Role: Co-investigator (subcontract PI)

PI: Jeffrey Peipert, M.D., Brown University and WIH

Agency: NIH/NICHD (R01-HD-36663)

Period: 10/01/98 - 07/31/99

Amount: \$12,885

Area-Based Socioeconomic Measures for Health Data

Role: Co-investigator

Brown PI: Sally Zierler, Ph.D., Brown University
PI: Nancy Krieger, Ph.D., Harvard University

Agency: NIH (R01 HD 36865) Period: 12/01/98 - 02/28/01

Moderate Exercise to Aid Smoking Cessation in Women

Role: Protocol Statistician & Co-investigator (subcontract PI)
PI: Bess Marcus, Ph.D., Brown University & Miriam Hospital

Agency: NIH/NCI (R01 CA 77249)

Period: 1998 – 2001 Amount: \$115,073

Epidemiology of Ovarian Function in Relation to Violence

Role: Co-investigator

PI: Sally Zierler, Ph.D., Brown University

Agency: NIH (RO1 MH 57735)
Period: 07/01/99 - 06/30/00

Child Disability and the Family Role: Co-investigator

PI: Dennis Hogan, Ph.D., Brown University

Agency: NIH (U01 HD 37614)
Period: 07/01/99 - 06/30/04

Contextual Model of Microbicide Acceptability

Role: Co-investigator (subcontract PI)

PI: Kathleen Morrow, Ph.D., Brown University & Miriam Hospital

Agency: NIH/NIMH (R01 MH 64455)
Period: 09/01/01 - 08/31/03

Amount: \$24,801

Immigration and Early Life Course Transitions

Role: Co-investigator

PI: Jennifer Glick, Ph.D., Arizona State University Brown PI: Michael White, Ph.D., Brown University

Agency: NIH/Subcontract with Arizona State University (R01 HD 37054)

Period: Completed 08/31/04

Directly Observed HAART for Substance Abusers

Role: Co-investigator (subcontract PI 2004-05)

PI: Timothy Flanigan, M.D., Brown University & Miriam Hospital

Agency: NIH (R01-DA-13767)
Period: 01/01/01 - 08/31/05

Amount: \$57,150

Internet Technologies to Increase Exercise Behavior
Role: Co-investigator (subcontract PI)
PI: Bess Marcus, Ph.D., Brown University

Agency: NIH/NHLBI (R01 HL 069866)

Period: 01/20/03 - 12/31/06

Amount: \$149,640

Enhanced Internet Behavior Therapy for Obesity Treatment

Role: Co-investigator (subcontract PI)

PI: Deborah Tate, Ph.D., University of North Carolina

Agency: NIH (R01 DK 60058)
Period: 09/30/02 - 05/31/07

Amount: \$139,224

SERVICE ACTIVITIES

A. University Service

University Level

1999 – 2000	Discussion Leader , Points on the Compass (Orientation for first-year students)			
2000 - 2003	Faculty Committee on the Academic Code			
2001 - 2003	Faculty Committee on Minority Faculty Recruitment			
2001	Provost Search Committee			
2002 - 2006	Steering Committee, Initiative on Spatial Structures in the Social Sciences (S4)			
2006	Review Committee, Smith Family Foundation New Investigator Award Program			
2006 – 07	Committee to Review Policies and Procedures for Tenure & Promotion, Division of Biology & Medicine			
2007 - 08	University Graduate Council			
2007 - 10	Research Advisory Board, Office of Vice President for Research (OVPR)			
2009, 2011	Academic Priorities Committee, Office of the Provost (elected)			
2009	Conflict of Interest Review Board, OVPR			
2013	Salomon Grant Review Committee, OVPR			
2013 - 14	Proposal Development Team, 'Building on Distinction: A New Plan for Brown'			
2013 - 16	Tenure, Promotions and Appointments Committee (elected)			
2015	Rapid Planning Group for Data Science Initiatives, Office of the Provost			
2015	Data Cores Task Force, OVPR			

Department, Division and School Level

1997 - 1999	1999 Steering Committee , George W. Anderson Outcomes Research Unit, Department of Ob/Gyn and Women & Infants' Hospital.			
1998 - 2008	Research Faculty Search Committees (5), Department of Community Health			
1999 - 2008	Curriculum Committee, Department of Community Health			
2002 - 2003	Undergraduate Curriculum Working Group, Dept. of Community Health			
2002 - 2006	Steering Committee, Initiative on Spatial Structures in the Social Sciences (S4)			
2004 - 08	Junior Faculty Search Committees in Biostatistics, Dept of Community Health.			
	(Chair 2005-06)			
2005 - 08	Senior Faculty Search Committees in Biostatistics, Dept of Community Health			
2005 - 06	Senior Faculty Search for Behavioral & Social Sciences, Dept Comm. Health			
2007	Frank Fellowship Review Committee, Division of Biology & Medicine			
2007	Public Health Program Strategic Planning Committee			
2007 - 09	Faculty Search Committees in Epidemiology, Dept of Comm Health			
2009 - 10	Faculty Search Committee in Biostatistics (Co-Chair)			
2010 - 11	Faculty Search Committee in Biostatistics			
2010 - 11	Faculty Search Committee in Epidemiology			
2010 - 11	Search Committee for Chair, Department of Behavioral and Social Sciences			
2011 - 13	Faculty Search Committees in Biostatistics (Chair for junior searches)			

2013 - 14	Strategic Planning Committee, School of Public Health		
2014 - 15	Search Committee for Chair, Department of Epidemiology		
2014 - 15	Chair, Search Committee for Teaching Scholar Track, Dept of Biostatistics		
2015	Ad-hoc Committee on PhD Funding and Planning, School of Public Health		
2016	Chair, Search Committee, Tenure Track Faculty in Biostatistics		
2018	Search Committee, Tenure Track Faculty for Data Science Initiative		
2019 - pres.	Ad-hoc Committee on Health Data Science (Chair), School of Public Health		
2019 – pres.	Academic Priorities Committee, Department of Biostatistics, SPH		
2020	Search Committee (Chair) , Teaching Scholar Faculty Search, Dept of Biostatistics		
2020 - 21	Search Committee, Tenure Track Faculty, Dept of Biostatistics		

Seminars and Working Groups

1995 – 1996	Organizer, Statistics Seminar, Center for Statistical Sciences			
1998 - 1999	Organizer, University Lecture Series: 'Meta Analysis in Medical Research'			
1999 - 2000	Co-organizer, Department of Community Health Seminar			
2002 - 2003	Organizer, University Lecture Series: 'Analysis of Spatially Aligned Data'			
2003 - 2004	Organizer, University Lecture Series: 'Statistical Methods for Bioinformatics'			
2005 - 2006	5 – 2006 Co-organizer , Bioinformatics Working Group, Center for Statistical Sciences			
2014	Organizer, Data Science Working Group in HIV, Brown CFAR			
2018	Organizer, Working Group on Statistical and Mathematical Modeling, Brown SPH			
2020	Organizer, 'Decoding Pandemic Data' Interactive Seminar Series, Brown DSI			
2020	Organizer, Cross-disciplinary Causal Inference Working Group, Brown DSI			

B. Professional & Government Service

Review and Advisory Panels

1998	1998 Reviewer. Division of Mathematics and Statistics, NSF				
1998 Consultant. Antiviral Drugs Advisory Committee, FDA					
2000 - 07	Clinical Trials Advisory Board, NIH Reproductive Medicine Network				
2000 - 02	Reviewer (ad hoc). NIH Study Section, Statistical Methods (SNEM-5)				
2003	Chair. NIH Special Emphasis Panel, 'Measurement and Statistical Analysis in Mental Health Research.'				
2003	Reviewer (ad hoc). NIH Study Section, Behavioral Genetics & Epidemiology				
2004	Chair. NIH Special Emphasis Panel, 'Statistical Methods for Longitudinal Studies.'				
2004	Reviewer. NIH Special Emphasis Panel, 'Behavior and Social Science Methods'				
2005	Reviewer (ad hoc). NIH Study Section, AIDS Epidemiology (ACE)				
2005 - 07	Reviewer (ad hoc). NIH Study Section, Biostatistical Methods (BMRD)				
2006	Reviewer (ad hoc). NIH Study Section, Mental Health Services (SRV)				
2005 - 10	Scientific Advisory Board, HIV Neurobehavioral Research Ctr, UC San Diego				
2005 - 06	Committee Member. 'Asbestos – Selected Health Effects', Institute of Medicine, National Academies of Science				

2006 - 2011	External Advisory Committee , CNS HIV Anti-Retroviral Therapy Effects Research (CHARTER) Study, UC San Diego					
2007	Natural History and Epidemiology Planning Group for FY 2009 , NIH Office of AIDS Research					
2007 - 11	NIH Study Section Member, Biostatistical Methods & Research Design (BMRD)					
2009	Co-Organizer , Symposium on Building Biostatistics Capacity in Sub-Saharan Africa, NIAID, Bethesda MD.					
2009 - 10	Committee for Handling Missing Data in Clinical Trials, National Research Council, National Academies of Science					
2012	Reviewer. Special Emphasis Panel on HIV Vaccine Research Program Project Grants ZAI1 RRA-A (J1)					
2012 – pres.	Performance and Safety Monitoring Board , HIV Center for Clinical and Behavioral Studies, Columbia University.					
2014 – pres.	Design and Safety Monitoring Board , Designing and Assessing a Community Based Model of Antiretroviral Care (NIH Grant U01 GH0000765-01)					
2015	AIDS International Research Training Special Emphasis Panel (AARR-H57). National Institutes of Health.					
2015	Social Determinants of Health Special Emphasis Panel (AARR-F53). National Institutes of Health.					
2015	External Advisory Board, Center for AIDS Research, University of Washington.					
2015	Reviewer. NIH Special Emphasis Panel AARR-H57 (Fogarty International Center)					
2016	Reviewer. NIH Special Emphasis Panel AARR-F92 (HIV and Big Data)					
2016	CSR New Innovator Review Panel. National Institutes of Health					
2016	Site Reviewer, Division of Intramural Population Health Research, NICHD					
2018	Reviewer. International and Cooperative Projects (ICP1) Study Section, NIH					
2018	Reviewer . Population and Public Health Approaches to HIV/AIDS (PPAH) Study Section, NIH.					
2018	Reviewer. NIH Director's Early Independence Award Study Section (DP5).					
2018	External Advisory Board, Center for AIDS Research, University of North Carolina.					
2019	Reviewer, NIH BMRD Study Section					
2019	Reviewer, NIH Fogarty International Center Study Section (ZRG1 AARR-N (57) R)					
2020	Cochran Prize Committee for the journal Observational Studies					
2021	Reviewer, NIH PPAH Study Section, NIH					
2021	Lagakos Alumni Award Committee, Department of Biostatistics, Harvard SPH					

Peer Review Service

1994 – pres. **Peer Reviewer.** Advances in Statistics, American Journal of Epidemiology, American Journal of Preventive Medicine, Annals of Applied Statistics, Annals of Epidemiology, Applied Statistics, Archives of General Psychiatry, Biometrics, Biostatistics, Clinical Trials, Epidemiology, F1000, Health Services and Outcomes Research Methodology, Health Services Research, International Journal of Biostatistics, Journal of Clinical Oncology, JAIDS, JAMA, JASA, Journal of the International AIDS Society, JRSS-B, Lifetime

Data Analysis, Psychological Methods, Sexually Transmitted Infections, Statistical Methods in Medical Research, Statistica Sinica, Statistical Communications in Infectious Disease, Statistics & Probability Letters, Statistics in Medicine, Addison-Wesley Longman Publishers, Springer Verlag Publishers, Wiley & Sons Publishers.

Conference Organizing and Service to Professional Societies

1997	Organizer. Invited paper session 'Drawing Inference under Non-ignorable Nor Response.' Biometric Society/ENAR Spring Meetings, Memphis.			
1998	Organizer. Invited paper session 'Jointly Analyzing Longitudinal and Survival Data Joint Statistical Meetings, Dallas.			
2000	Review Committee. Student Paper Competition, Biometric Society/ENAR Spring Meetings, Chicago.			
2000	Vice Program Chair. Biometric Society/ENAR Spring Meetings, Chicago.			
2000	Organizing Committee Chair. New England Statistics Symposium			
2000	Organizer. Invited paper session 'Multilevel and Latent Variable Models for Infertility Studies.' Joint Statistical Meetings, Indianapolis.			
2001	Organizer. Invited paper session 'Case Studies in Causal Inference.' Biometric Society/ENAR Spring Meetings, Charlotte.			
2002	Organizing Committee Member. Workshop for Junior Researchers, Biometric Society/ENAR Spring Meetings, Washington DC.			
2003	Organizer. Invited paper session 'Causal Inference from Longitudinal Data: Biostatistical and Econometric Approaches.' Biometric Society/ENAR Spring Meetings, Tampa.			
2006	Organizer. Invited paper session 'Sensitivity Analysis for Missing Data and Cau Inference'. Joint Statistical Meetings, Seattle.			
2007	Organizer. Invited paper session 'Design and Analysis of Behavioral Intervention Studies'. Biometric Society/ENAR Spring Meetings, Atlanta.			
2008	Reviewer. Student Paper Competition, Section on Bayesian Statistical Sciences, ASA.			
2009	Program Committee , Biometric Society/ENAR Spring Meetings, San Antonio.			
2010 2011	Program Committee , Biometric Society/ENAR Spring Meetings, New Orleans Co-Organizer , Pan-African Conference on Building Biostatistics Capacity in Sub-Saharan Africa, University of Botswana			
2012	Educational Advisory Committee , Biometric Society/ENAR Spring Meetings, Washington DC.			
2012 - 14	Regional Committee (Elected), Biometric Society/ENAR.			
2013 - 15	Reviewer, Student Paper Competition, Biometric Society/ENAR			
2013 - 14	Organizing Committee Chair , 2014 Atlantic Causal Inference Conference, Providence			
2014 - 16	Council of Sections Representative (Elected), Biometrics Section, American Statistical Association			
2015	Organizing Committee , NIAID Workshop 'Infectious Diseases Research: Quantitative Methods and Models in the Era of Big Data', Bethesda MD.			
2018	Organizing Committee , NIAID Workshop 'Statistical Challenges and Opportunities in HIV/AIDS Research in the Era of Getting-to-Zero HIV Infection', Philadelphia.			

2019	Organizer , NSF-TRIPODS Workshop 'Models and Machine Learning for Causal Inference and Decision Making in Health Research', Brown University.		
2020 - 2024	Member at Large , Section on Statistics (Elected). American Academy for the Advancement of Science.		
2020	Organizer , 'Decoding Pandemic Data' Lecture Series, Data Science Initiative Brown U		
2020 - pres.	2020 – pres. Outreach Committee , Society for Causal Inference		

Service to Local Community

2001 - 06
 2010 - 14
 Board of Directors, Taft Avenue Daycare, Inc.
 Youth Basketball Coach, City of Cranston Travel Basketball Program

TEACHING

A. Courses taught

* = designed new course || = substantial revision / redesign

Semester	Course	Enrolled	Title
FA 1996	BC 291		Longitudinal Data Analysis (1/3 semester)
SP 1997	BC 291	7	Categorical Data Analysis (1/2 semester)
FA 1997	BC 213	N/A	Principles of Biostatistics and Data Analysis
FA 1998	BC 213	68	Principles of Biostatistics and Data Analysis
FA 1999	BC 213	45	Principles of Biostatistics and Data Analysis
SP 2000	BC 252	4	* Analysis of Survival Time Data
	BC 196	1	Senior Seminar in Statistics: Meta Analysis
FA 2000	BC 213	42	Principles of Biostatistics and Data Analysis
	BC 296	2	Independent Study: Missing Data in Longitudinal Studies
SP 2001	BC 252	3	Analysis of Survival Time Data
	BC 196	1	Senior Seminar in Statistics: Analysis of Area-Level Data
FA 2001	BC 213	48	Principles of Biostatistics and Data Analysis
SP 2002	BC 252	4	Analysis of Survival Time Data
	BC 196	1	Senior Seminar in Statistics: Analysis of Microarray Data
	BC 296	3	Independent Study: Regression for Multivariate Response Data
FA 2002	BC 213	45	Principles of Biostatistics & Data Analysis
	BC 296	1	Independent Study: Causal Inference
SP 2003	BC 253	10	* Analysis of Longitudinal Data
FA 2003	BC 203	38	Introduction to Biostatistics
SP 2004	BC 216	9	Applied Regression Analysis
	BC 295	1	Independent Study: Statistical Learning
FA 2004	BC 203	63	Introduction to Biostatistics
FA 2005	BC 213	24	Principles of Biostatistics and Data Analysis
SP 2006	BC 253	6	Analysis of Longitudinal Data
FA 2006	BC 213	27	Principles of Biostatistics and Data Analysis
SP 2007	BC 267	7	* Missing Data & Causal Inference
FA 2007	PHP 2510	37	Principles of Biostatistics and Data Analysis
SP 2008	PHP 2603	15	Analysis of Longitudinal Data
FA 2008	PHP 2510	32	Principles of Biostatistics and Data Analysis
SP 2009	IMSD	~20	* IMSD Module Co-Leader: Biostatistics
SP 2009	PHP 2670	12	Missing Data and Causal Inference
FA 2010	PHP 2510	40	Principles of Biostatistics and Data Analysis
SP 2011	PHP 2670	13	Missing Data and Causal Inference
SU 2011	IMSD	~20	IMSD Module Co-Leader: Biostatistics
FA 2011	PHP 2680	9	* Research Methods in Biostatistics
SP 2012	PHP 2511	19	Applied Regression Analysis
FA 2012	PHP 2610	16	Missing Data and Causal Inference

SP 2013	PHP 2511	22	Applied Regression Analysis
FA 2013	PHP 2520	22	Statistical Inference I
FA 2014	PHP 2610	27	Missing Data and Causal Inference
SP 2014	PHP 2690	12	* Statistical Foundations of Data Science
SP 2015	PHP 2630	8	Statistical Foundations of Data Science
FA 2016	PHP 2610	28	Missing Data and Causal Inference
FA 2017	PHP 0100	22	Statistics is everywhere (co-instructor)
FA 2018	PHP 2610	29	Causal inference and missing data
SP 2019	PHP 2517	19	* Multilevel data analysis (half course)
FA 2019	PHP 2610	34	Causal inference and missing data
FA 2020	PHP 2610	20	Causal inference and missing data

B. PhD Theses Directed

- 1. **Vanja Dukic**, Ph.D. in Applied Mathematics, 2000 (co-advisor with C. Gatsonis) Professor of Applied Mathematics, University of Colorado *Hierarchical Bayesian Modeling for Discrete Data* van Ryzin Prize for Best Student Paper, ENAR Spring Meetings, 2000.
- Joo Yeon Lee, Ph.D. in Biostatistics, 2007.
 Senior Statistical Reviewer, US Food & Drug Administration
 Informative Priors and Sensitivity Analysis for Longitudinal Binary Data with Dropout
 Distinguished Student Paper Award, ENAR Spring Meetings, 2006

 ASA Section on Bayesian Statistical Science Student Paper Award, ISM 2007
- 3. Li Su, Ph.D. in Biostatistics, 2007

Senior Statistician, Medical Research Council Biostatistics Unit, Cambridge UK *Likelihood-based Semiparametric Regression for Correlated Binary Data* Distinguished Student Paper Award, ENAR Spring Meetings, 2006 ASA Epidemiology Section Student Travel Award, JSM 2007

4. **Shira Dunsiger,** Ph.D. in Biostatistics, 2009

Assistant Professor of Behavioral and Social Sciences (Research), Brown University Latent Variable Models for Longitudinal Data in Behavioral Medicine

5. **Ann Mwangi**, PhD in Biostatistics, 2011

Senior Lecturer and Head of Department of Behavioural Science, Moi University School of Medicine, Eldoret, Kenya

Addressing Selection Bias in Observational Event History Data, with Application to HIV in Western Kenya

Distinguished Student Paper Award, ENAR Spring Meetings, 2011

6. **Jing Zhang, PhD in Biostatistics**, 2012

Causal Inference for Mediation

Student Travel Award, 2010 ISCB Annual Meetings, Montpellier, France

7. Miles Ott, PhD in Biostatistics, 2014

Associate Professor, Department of Mathematics and Statistics, Smith College *Analytic Methods for Network Data*

8. **Liangyuan Hu**, PhD in Biostatistics, 2015

Assistant Professor (Biostatistics), Icahn School of Medicine at Mount Sinai, New York City Causal Models for Comparing and Optimizing HIV Treatment Strategies using Electronic Health Records Data

Best Poster Award, 2014 International Workshop on HIV Observational Databases, Sitges, Spain

9. Yizhen Xu. PhD in Biostatistics, 2019

Postdoctoral Research Fellow, Department of Biostatistics, Johns Hopkins University Bayesian Methods for Predictive and Causal Inference

C. SM Theses Directed

1. **Christina Korkontzelou**, SM in Biostatistics, 2001

Weighted Estimating Equations for Informative Dropout in Smoking Cessation Studies Chalmers Student Scholarship, Society for Clinical Trials, 2001.

2. **Parul Aneja**, SM in Biostatistics, 2005

Analysis of Longitudinal Survey Data on Educational Transitions via Pattern Mixture Models

3. **Patricia Fox**, SM in Biostatistics, 2009

Transitions within states of lung function: A multinomial logistic approach using two-year followup data from bacteriologically cured tuberculosis patients

4. **Youdan Wang**, SM in Biostatistics, 2012

Estimating mixing proportions from partially labeled data.

5. **Edwin Sang**, SM in Biostatistics, 2013

Causal effect of HIV serostatus disclosure on mortality and loss to follow-up after HAART initiation using propensity score

Outstanding Masters Thesis in Department of Biostatistics

6. **Evon Okidi,** SM in Biostatistics, 2014

Comparison of IPW and imputation methods for handling missing covariate data in survival analysis

7. **Allan ge**, SM in Biostatistics, 2019

Harnessing the power of machine learning for clinical prediction Outstanding Masters Thesis in Department of Biostatistics

8. **Ryan Buckland**, SM in Biostatistics, 2020

(Co-advised with Elizabeth Chen, PhD)

A statistical approach to predicting suicidal thoughts and behaviors using natural language processing

Outstanding Masters Thesis in Department of Biostatistics

D. Postdoctoral Fellows

1. Hyejin Ko, Ph.D.

Postdoctoral Fellow in Biostatistics, 2000 – 2001 Senior Consultant, Samsung SDS, Seoul, South Korea

2. Tao Liu, Ph.D.

Postdoctoral Fellow in Biostatistics, 2006 – 2008 Associate Professor of Biostatistics, Brown University

E. Thesis Committees

- 1. **Jenifer Allsworth, Ph.D.** Epidemiology, 2000
- 2. **Brian Quilliam, Ph.D.** Health Services Research, 2001
- 3. **Mei-Hsiu Chen, Ph.D.** Biostatistics, 2005
- 4. **Shang-Ying Shiu, Ph.D** Biostatistics, 2006.
- 5. **Amara Ezeamama, Ph.D.** Epidemiology, 2006
- 6. **Hong Li, PhD** Biostatistics, 2008
- 7. **Hung-Lun Chien,** MPH 2007
- 8. Yunxia Sui, Ph.D. Biostatistics, 2010
- 9. **Xiaozhong Wen, PhD** Epidemiology, 2010
- 10. Monica Bertoia, PhD Epidemiology, 2012
- 11. Michael Lopez, PhD Biostatistics, 2014
- 12. Lawrence Were, PhD Health Services Policy & Practice, 2015
- 13. Kirwa Kipruto, PhD Epidemiology, 2015
- 14. Yi Zhao, PhD Biostatistics, 2017
- 15. Yi Cao, PhD Biostatistics

F. Other Teaching and Advising Roles

1995 - 1998	Preceptor, Resident Research Projects, Women & Infants' Hospital
1999 – pres	Advisor in Undergraduate Statistics Concentration
1999 - pres.	Advisor in Biostatistics Graduate Program (2-3 students/year)
2000	Reader for Honors Thesis in Environmental Science (1 student)
2000 - 2008	Core Faculty for Community Health Clerkship (BC 540)
2000 - 2004	K-Award Research Co-Mentor
	Project: Mentored Investigator in Women's Health
	Awardee: Lori Boardman, M.D., Women & Infants' Hospital (K23-HD01307)
2000 – pres.	Core Faculty for Fogarty International Training Program in HIV/AIDS
2000 - pres.	Core Faculty, NIH Training Grant
	Title: HIV and Other Infectious Consequences of Substance Abuse
	PI: Tim Flanigan, Brown University and Miriam Hospital (T32-DA013911)
2004	Faculty Advisor, Royce Undergraduate Fellowship Program
2004 - 2009	K-Award Research Co-Mentor
	Project: Combining DOT and Prevention for HIV+ Persons Leaving Prison

Awardee: Jennifer Mitty, MD, Brown U / Miriam Hospital (K23-DA17622)

2005 **Board of Examiners** for PhD Dissertations (2)

Department of Statistics, University of Madras, India

2006 - 2011 K-Award Research Co-Mentor

Project: Routine HIV Testing in Primary Care Practices

Awardee: Emma Simmons, MD, Brown U / Memorial Hosp (K23-MH078779)

2006 - 2011 K-Award Research Co-Mentor

Project: Concurrent HAART and Tuberculosis Treatment: Drug Interactions Awardee: Awe Kwara, MD, Brown University / Miriam Hospital (K23-AI-71760)

2008 - 2013 K-Award Research Co-Mentor

Project: Buprenorphine as a Bridge to HCV Treatment for HIV/HCV

Coinfected Opioid Users

Awardee: Lynn Taylor, MD, Brown U / Miriam Hospital (K23-DA-020383)

2013 - 2019 K-Award Research Co-Mentor

Project: Linkage to care following home-based counseling and testing in western

Kenya.

Awardee: Becky Genberg, PhD, Brown U

2014 **External Examiner**, PhD committee for Agnes Kiragga

Makarere University, Uganda

2019 - pres., **K-Award Research Co-Mentor**

Project: Missing data in ecological momentary assessment studies

Applicant: Manshu Yang, University of Rhode Island

2018 – pres. **CTR Faculty Mentor**

Project: New Methods to Evaluate the Effects of Opioids in Provider Based Networks

Awardee: Ashley Buchanan, University of Rhode Island