

## EDUCATION AND TRAINING

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- 2011 **Harvard University**  
Ph.D. in Biostatistics  
Dissertation title: *Causal Models for Instrumental Variables and Misclassification*
- 2006 **Columbia University Mailman School of Public Health**  
M.S. in Statistical Genetics
- 2003 **Harvard University**  
A.B. with honors in Philosophy and Mathematics  
Honors thesis title: *Consequentialism and the Person as an End-in-Itself*

## PROFESSIONAL EXPERIENCE

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- 2020–present Associate Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health
- 2017–present Associate, Hopkins Population Center, Johns Hopkins University
- 2017–present Member, Institute for Data-Intensive Engineering and Science, Johns Hopkins University
- 2017–present Affiliated Faculty, Center for Causal Inference, University of Pennsylvania
- 2013–2020 Assistant Professor, Department of Biostatistics, Johns Hopkins Bloomberg School of Public Health
- 2011–2013 Research Fellow, Program on Causal Inference, Harvard School of Public Health  
Advisor: Tyler VanderWeele
- 2012–2013 Research Fellow, Center for Communicable Disease Dynamics, Harvard School of Public Health
- 2007–08 Data Analyst and Statistical Consultant, Harvard Law School  
Supervisor: Elizabeth Warren

## PROFESSIONAL ACTIVITIES

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- Committee Member Institute of Mathematical Statistics, Nominations Committee (2020–present)  
Institute of Mathematical Statistics, New Researchers Committee (2015–2018)

- Secretary/Treasurer American Statistical Association, Biometrics Section (2019–2020)
- Publications Officer American Statistical Association, Section on Statistics in Epidemiology (2014–2015)
- Grant Review Panel PCORI (2020)  
National Science Foundation (2018)
- Ad hoc reviewer National Science Foundation
- Planning committee World Congress of Probability and Statistics New Researchers Meeting (August, 2020; Seoul, South Korea)  
Junior Biostatisticians in Health Research Meeting (March 22-23, 2019; Philadelphia, PA)  
Networks and Causal Inference Symposium (June, 2018; Paris, France)  
IMS New Researchers Conference (July, 2017; Baltimore, MD)  
Atlantic Causal Conference (May, 2016; New York, NY)  
Atlantic Causal Conference (May 20-21, 2013; Cambridge, MA)
- Session organizer Eastern North American Regional Meeting of the International Biometric Society (March 16-19, 2014; Baltimore, MD)  
Atlantic Causal Conference (May 20-21, 2013; Cambridge, MA)
- Session chair Joint Statistical Meetings (August 8-13, 2015; Seattle, WA)  
Joint Statistical Meetings (July 28-August 2, 2012; San Diego, CA)  
Eastern North American Regional Meeting of the International Biometric Society (April 1-4, 2012; Washington, DC).

## EDITORIAL ACTIVITIES

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- Associate Editor *Harvard Review of Data Science* (2020–present)  
*International Journal of Biostatistics* (2019–present)  
*Journal of the Royal Statistical Society: Series B* (2018–present)  
*Biostatistics* (2016–present)  
*Epidemiologic Methods* (2016–present)  
*Journal of Causal Inference* (2016–present)  
*Journal of the American Statistical Association, Theory and Methods* (2014–2018)

Reviewer *American Journal of Epidemiology, American Journal of Managed Care, American Journal of Political Science, Annals of Applied Statistics, Annals of Epidemiology, Biometrics, Biometrika, BMC Medical Research Methodology, Epidemiology, Epidemiologic Methods, International Journal of Biostatistics, International Journal of Epidemiology, Journal of Clinical Epidemiology, Journal of Causal Inference, Journal of Machine Learning Research, Journal of the Royal Statistical Society: Series B, Journal of the Royal Society Interface, Journal of Statistical Research, Paediatric and Perinatal Epidemiology, PLOS ONE, Statistics in Medicine, Statistics and Probability Letters.*

## HONORS AND AWARDS

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- 2018 Society of Epidemiologic Research and American Journal of Epidemiology Article of the Year
- 2017 Teaching Excellence Recognition for the course *Statistical Theory I*
- 2016 National Academy of Sciences Kavli Fellow
- 2015 Teaching Excellence Recognition for the course *Statistical Theory I*
- 2014 Teaching Excellence Recognition for the course *Statistical Theory I*
- 2013 Rose Traveling Fellowship Program in Chronic Disease Epidemiology and Biostatistics.
- 2012 Thomas R. Ten Have Award, Atlantic Causal Inference Conference. (Awarded for exceptionally creative or skillful research on causal inference.)
- 2012 Research travel grant, National Science Foundation and Association for Women in Mathematics.
- 2012 Travel award, International Society of Environmental Epidemiology.
- 2011 Student Research Award, Graybill Conference on Nonparametric Statistics.
- 2011 Travel award, Society for Epidemiologic Research.
- 2008 Robert Balentine Reed Prize for Excellence in Biostatistical Science. Department of Biostatistics, Harvard University. (Awarded for the highest score on the doctoral qualifying exam.)
- 2005, 2006 Peter J. Sharp Scholarship, Columbia University. (Full-tuition, merit-based scholarship.)

**PUBLICATIONS** (\* lead author was a student or advisee at the time of writing)

## UNDER REVIEW / TECH REPORTS

1. **Ogburn EL**, Shpitser I, Tchetgen Tchetgen EJ. Counterexamples to "The Blessings of Multiple Causes" by Wang and Blei. (<https://arxiv.org/abs/2001.06555>)
2. **Ogburn EL**, Sofrygin O, Diaz I, van der Laan MJ. Causal inference for social network data. (<https://arxiv.org/abs/1705.08527>)
3. Smith B\*, **Ogburn EL**, McGue M, Basu S, Scharfstein DO. Causal Effects in Twin Studies: the Role of Interference. (<https://arxiv.org/abs/2007.04511>)

## PEER REVIEWED ARTICLES

1. **Ogburn EL**, Rudolph KE, Morello-Frosch R, Khan A, Casey JA (In Press). A Warning About Using Predicted Values From Regression Models for Epidemiologic Inquiry. *American Journal of Epidemiology*.
2. **Ogburn EL**, Shpitser I, Lee Y (2020). Collective behavior, causal inference, and chain graphs. *JRSS-A*.
3. Lee Y\*, **Ogburn EL** (2020). Network Dependence Can Lead to Spurious Associations and Invalid Inference. *JASA*.
4. Wang B\*, **Ogburn EL**, Rosenblum M (2020). Analysis of Covariance (ANCOVA) in Randomized Trials: More Precision and Valid Confidence Intervals, Without Model Assumptions. *Biometrics*.
5. Lee Y\*, **Ogburn EL** (2020). Testing for network and spatial autocorrelation. International Conference on Network Science. Springer, Cham.
6. Nguyen TQ\*, Dafoe A, **Ogburn EL** (2019). Collider bias in binary variable structures. *Epidemiologic Methods*.
7. Lucas G, Solomon SS, Solomon S, McFall AM, Srikrishnan AK, S Anand, V Verma, CK Vasudevan, P Balakrishnan, **EL Ogburn**, LH Moulton, MS Kumar, KS Sachdeva, O Laeyendecker, DD Celentano, SH Mehta (2019). Integrated HIV testing, prevention, and treatment intervention for key populations in India: results from a cluster randomized trial. *Lancet HIV*, 6(5), e283-e296.
8. Casey JA, Gemmill A, Karasek D, **Ogburn EL**, Goin DE, Morello-Frosch R (2018). Increase in fertility following coal and oil power plant retirements in California. *Environmental Health*, 17(1), 44.

9. Casey JA, Karasek D, **Ogburn EL**, Goin DE, Dang K, Braveman PA, Morello-Frosch R (2018). Coal and oil power plant retirements in California associated with reduced preterm birth among populations nearby. *American Journal of Epidemiology*, 187(8), 1586-1594. (Paper selected as *AJE* article of the year.)
10. Chen O\*, Crainiceanu C, **Ogburn EL**, Caffo B, Wager T, Lindquist MA (2017). High-dimensional multivariate mediation with application to neuroimaging data. *Biostatistics*, 19(2), 121-136.
11. **Ogburn EL**, VanderWeele TJ (2017). Vaccines, contagion, and social networks. *Annals of Applied Statistics*, 11(2), 919-948.
12. Casey JA, Morello-Frosch R, Mennitt DJ, Frstrup K, **Ogburn EL**, James P (2017). Race/Ethnicity, Socioeconomic Status, Residential Segregation, and Spatial Variation in Noise Exposure in the Contiguous United States. *Environmental Health Perspectives*, 125(7), e077017.
13. Tsai AC, Kakuhikire B, Perkins JM, Vořechovská D, McDonough AQ, **Ogburn EL**, Downey JM, Bangsberg DR (2017). Measuring Personal Beliefs and Perceived Norms about Intimate Partner Violence: Population-Based Survey Experiment in Rural Uganda. *PLOS Medicine*, 14(5), e1002303.
14. Gittelsohn J, Jock B, Redmond L, Fleischhacker S, Eckmann T, Bleich SN, Loh H, **Ogburn EL**, Gadhoke P, Swartz J, Pardilla M, Caballero B (2017). OPREVENT2: Design of a multi-institutional intervention for obesity control and prevention for American Indian adults. *BMC Public Health*, 17(1), 105.
15. Rasmussen SG, **Ogburn EL**, McCormack M, Casey JA, Bandeen-Roche K, Mercer DG, Schwartz BS (2016). Association between unconventional natural gas development in the Marcellus Shale and asthma exacerbations. *JAMA Internal Medicine*, 176(9), 1334-1343.
16. Casey JA, Savitz DA, Rasmussen SG, **Ogburn EL**, Pollak J, Mercer DG, Schwartz BS (2016). Unconventional natural gas development and birth outcomes in Pennsylvania, USA. *Epidemiology*, 27(2), 163.
17. **Ogburn EL**, Zeger SL (2016). Statistical Reasoning and Methods in Epidemiology to Promote Individualized Health: In Celebration of the 100th Anniversary of the Johns Hopkins Bloomberg School of Public Health. *American Journal of Epidemiology*, 183(5), 427-434.
18. Staples PC, **Ogburn EL**, Onnela JP (2015). Incorporating contact network structure in cluster randomized trials. *Scientific Reports*, 5, e17581.
19. Casey JA, **Ogburn EL**, Rasmussen SG, Irving JK, Pollak J, Locke PA, Schwartz BS (2015). Predictors of Indoor Radon Concentrations in Pennsylvania, 1989–2013. *Environmental Health Perspectives*, 123(11), 1130-1137.
20. Solomon SS, Mehta SH, Srikrishnan AK, Vasudevan CK, McFall AM, Balakrishnan P, Anand S, Nandagopal P, **Ogburn EL**, Laeyendecker O, Lucas GM, Solomon S, Celentano DD (2015). High HIV prevalence and incidence among men who have sex with men (MSM) across 12 cities in India. *AIDS*, 29(6), 723.

21. Lucas GM, Solomon SS, Srikrishnan AK, Agrawal A, Iqbal S, Laeyendecker O, McFall AM, Kumar MS, **Ogburn EL**, Celentano DD, Solomon S, Mehta SH (2015). High HIV burden among people who inject drugs in 15 Indian cities. *AIDS*, 29(5), 619.
22. **Ogburn EL**, Rotnitzky A, Robins JM (2015). Doubly robust estimation of the local average treatment effect curve. *Journal of the Royal Statistical Society, Series B*, 77(2), 373-396. (Paper selected for presentation at the Royal Statistical Society Journal Club.)
23. **Ogburn EL**, VanderWeele TJ (2015). Causal diagrams for interference. *Statistical Science*, 29(4), 559-578.
24. Cacioppo JT, Cacioppo S, Gonzaga GC, **Ogburn EL**, VanderWeele TJ (2013). Marital satisfaction and breakups differ across online and offline meeting venues. *Proceedings of the National Academy of Sciences*, 110(25), 10135-10140.
25. **Ogburn EL**, VanderWeele TJ (2013). Bias Attenuation Results for Nondifferentially Mismeasured Ordinal and Coarsened Confounders. *Biometrika*, 100(1), 241-248.
26. **Ogburn EL**, VanderWeele TJ (2012). Analytic results on the nondifferential misclassification of a binary mediator. *American Journal of Epidemiology*, 176(6), 555-561.
27. **Ogburn EL**, VanderWeele TJ (2012). On the nondifferential misclassification of a binary confounder. *Epidemiology*, 23(3), 433-439.
28. VanderWeele TJ, **Ogburn EL**, Tchetgen Tchetgen EJ (2012). Why and when “flawed” network analyses still yield valid tests of no contagion. *Statistics, Politics, and Policy*, 3(1), 1-11.
29. VanderWeele TJ, Valeri L, **Ogburn EL** (2012). The role of measurement error and misclassification in mediation analysis: mediation and measurement error. *Epidemiology*, 23(4), 561-564.
30. Heiman G, **Ogburn E**, Gorroochurn P, Keyes K, Hasin D (2008). Evidence for a two-stage model of dependence using the NESARC and its implications for genetic association studies. *Drug and Alcohol Dependence*, 92(3), 258-266.
31. Blanco C, **Ogburn E**, de los Cobos JP, et al. (2008). DSM-IV criteria-based clinical subtypes of cannabis use disorders: Results from the National Epidemiological Survey on Alcohol and Related Conditions (NESARC). *Drug and Alcohol Dependence*, 96(2), 136-144.
32. Blanco C, Olfson M, Goodwin RD, **Ogburn E**, et al. (2008). Generalizability of clinical trial results for major depression to community samples: results from the National Epidemiologic Survey on Alcohol and Related Conditions. *Journal of Clinical Psychiatry*, 69(8) 12,76-80.
33. Blanco C, Alderson D, **Ogburn E**, et al. (2007). Changes in the prevalence of non-medical prescription drug use and drug use disorders in the United States: 1991-1992 and 2001-2002. *Drug and Alcohol Dependence*, 90(2), 252-260.
34. Hasin DS, Stinson FS, **Ogburn E**, Grant BF (2007). Prevalence, correlates, disability and comorbidity of DSM-IV alcohol abuse and dependence in the United States. *Archives of General Psychiatry*, 64(7), 830-842.

35. Hasin D, Hatzenbuehler M, **Ogburn E**, Keyes K (2006). Substance Use Disorders: Diagnostic and Statistical Manual of Mental Disorders (DSM-IV) and International Classification of Diseases (ICD-10). *Addiction*, 101(1), 59-75.
36. Campbell CD, **Ogburn EL**, Lunetta KL, Lyon HN, Freedman ML, Groop LC, Altshuler D, Ardlie KG, Hirschhorn JN (2005). Demonstrating stratification in a European American population. *Nature Genetics*, 37(8), 868-872.

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#### COMMENTARIES

1. Wang B, Ogburn EL, Rosenblum M (2020). Rejoinder to "Robustness of ANCOVA in randomized trials with unequal randomization" by Jonathan W. Bartlett. *Biometrics*.
2. **Ogburn EL**, Bierer B, Brookmeyer R, Choirat C, Dean NE, De Gruttola V, Ellenberg SS, Halloran ME, Hanley DF, Lee JK, Wang R, and Scharfstein DO (2020). Aggregating data from COVID-19 trials. *Science*, 368(6496), pp.1198-1199.
3. Kimmel SE, Califf RM, Dean NE, Goodman SN, **Ogburn EL** (2020). COVID-19 Clinical Trials: A Teachable Moment for Improving Our Research Infrastructure and Relevance. *Annals of Internal Medicine*.
4. **Ogburn EL**, Shpitser I, Tchetgen Tchetgen EJ (2019). Comment on "The Blessings of Multiple Causes" by Wang and Blei. *JASA*.
5. Wang B, **Ogburn EL**, Rosenblum M (2019). Rejoinder to "Robustness of ANCOVA in randomized trials with unequal randomization" by Jonathan W. Bartlett. *Biometrics*.
6. **Ogburn EL** (2017). Comment on "Personalized Dose Finding Using Outcome Weighted Learning" by G Chen, D Zeng & MR Kosorok. *JASA*, 111(516), 1534-1537.
7. **Ogburn EL** (2012). Discussion of "Mediation analysis without sequential ignorability: Using baseline covariates interacted with random assignment as instrumental variables" by Dylan Small. *Journal of Statistical Research*. 46(2), 105-111.
8. VanderWeele TJ, **Ogburn EL** (2012). Theorems, proofs, examples and rules in the practice of epidemiology. *Epidemiology* 23: 443-445.

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#### CHAPTERS

1. **Ogburn EL** (2018). Challenges to estimating contagion effects from observational data. In *Complex Spreading Phenomena in Social Systems* (pp. 47-64). Springer, Cham.
2. **Ogburn EL**, Volfovsky A (2016). Networks. In *Big Data Handbook*. Buhlman P, Kane M, Drineas P, and van der Laan MJ, eds. Chapman and Hall. (Invited book chapter.)

3. Hasin D, Hatzenbuehler ML, Keyes-Wild K, **Ogburn E** (2007). Vulnerability to alcohol and drug use disorders. In: Stone WS (Ed): *Recognition and prevention of major mental and substance use disorders*. American Psychiatric Publishing: 115-155.
4. Hasin D, Hatzenbuehler ML, Keyes-Wild K, **Ogburn E** (2007). Substance use disorders. In: Saunders JB, Schuckit MA, Sirovatka P (Eds): *Diagnostic issues in substance use disorders: refining the research agenda for DSM-V*. American Psychiatric Association: 93-129.

## PRACTICE ACTIVITIES

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Consulted for the Equal Employment Opportunity Commission, 2014 - 2015

## TEACHING AND ADVISING

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ADVISING OR CO-ADVISING (\* expected graduation)

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- 2022 \* Brian Gilbert, PhD candidate  
Department of Biostatistics, Johns Hopkins University
- 2021 \* Trang Nguyen, PhD candidate  
Department of Biostatistics, Johns Hopkins University
- 2020 Qifang Bi, MHS  
Department of Biostatistics, Johns Hopkins University
- 2019 Youjin Lee, PhD  
Department of Biostatistics, Johns Hopkins University  
Thesis: "Statistical Reasoning in Network Data"  
Currently Postdoctoral Fellow at the University of Pennsylvania Center for Causal Inference
- 2017 Kathryn Risher, Ph.D. candidate in Epidemiology and MHS candidate in Biostatistics (co-advisor)  
Department of Biostatistics, Johns Hopkins University  
Currently Research Fellow at the London School of Hygiene and Tropical Medicine
- 2015 Oliver Chen, ScM  
Department of Biostatistics, Johns Hopkins University
- 2014 Caroline Epstein, ScM  
Department of Biostatistics, Johns Hopkins University



PRELIMINARY ORAL EXAM COMMITTEE MEMBER

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- 2020 Noam Finkelstein, PhD candidate  
Department of Computer Science, Johns Hopkins University
- 2019 Bonnie Smith, PhD candidate  
Department of Biostatistics, Johns Hopkins University
- 2019 Razieh Nabi, Ph.D. candidate  
Department of Computer Science, Johns Hopkins University
- 2019 Rohit Bhattacharya, Ph.D. candidate  
Department of Computer Science, Johns Hopkins University
- 2018 Lamar Alexander, Ph.D. candidate  
Department of Biostatistics, Johns Hopkins University
- 2018 Zixuan Lin, Ph.D. candidate  
Department of Biomedical Engineering, Johns Hopkins University
- 2018 Ben Ackerman, Ph.D. candidate  
Department of Biostatistics, Johns Hopkins University
- 2017 Claire Ruberman, Ph.D.  
Department of Biostatistics, Johns Hopkins University
- 2016 Yuting XU, Ph.D.  
Department of Biostatistics, Johns Hopkins University
- 2015 Sara Rasmussen, Ph.D.  
Department of Environmental Health, Johns Hopkins University

FINAL ORAL EXAM COMMITTEE MEMBER (\* expected graduation)

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- 2021 \* Bonnie Smith, PhD candidate  
Department of Biostatistics, Johns Hopkins University
- 2020\* Lamar Alexander, Ph.D.  
Department of Biostatistics, Johns Hopkins University
- 2020\* Ben Ackerman, Ph.D.  
Department of Biostatistics, Johns Hopkins University
- 2018 Claire Ruberman, Ph.D.  
Department of Biostatistics, Johns Hopkins University
- 2015 Smita Das, Ph.D.  
Department of Molecular Microbiology and Immunology, Johns Hopkins University

CLASSROOM INSTRUCTION

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- 2015-present Causal Inference II (co-taught with Constantine Frangakis)  
Department of Biostatistics, Johns Hopkins University  
Enrollment approximately 5 students
- 2014-present Statistical Theory I  
Department of Biostatistics, Johns Hopkins University  
Enrollment approximately 10 students  
Received Teaching Excellence Recognition each time taught
- 2014 Statistics and Networks (special topics course)  
Department of Biostatistics, Johns Hopkins University  
Enrollment approximately 5 students
- 2010–2011 Summer preparatory introduction to statistical theory for incoming Ph.D. students  
Department of Biostatistics, Harvard School of Public Health
- 2003–04 9th, 10th, and 11th Grade Math Teacher, American School of Paris  
Classes: Algebra 2, Geometry, Pre-Calculus

TEACHING ASSISTANT

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- 2009–2011 Department of Epidemiology, Harvard School of Public Health  
Class: Advanced Epidemiologic Methods  
Professors: Eric Tchetgen Tchetgen, James Robins, Miguel Hernan
- 2009–2011 Department of Biostatistics, Harvard School of Public Health  
Class: Statistical Inference  
Professors: Yi Li, Rebecca Betensky
- 2011 Departments of Biostatistics and Epidemiology, Harvard School of Public Health  
Class: Methods for Mediation and Interaction  
Professor: Tyler VanderWeele
- 2008 Department of Biostatistics, Kitasato University (Tokyo, Japan)  
Class: Statistical Methods  
Professor: Louise Ryan
- 2007–08 Harvard Law School  
Class: Empirical Analysis of Law  
Professor: Elizabeth Warren

RESEARCH GRANT PARTICIPATION

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- 2018–2021 Uncertainty and Networks. Project grant, Office of Naval Research.  
**Principal Investigator** (with Ilya Shpitser). \$600,000 over the life of the grant.

- 2018–2022 A pragmatic trial to evaluate the intermediate-term effects of early, aggressive versus escalation therapy in people with multiple sclerosis. Ellen Mowry, PI. PCORI.  
Co-investigator. Lead statistician in charge of study design and analysis for multi-center pragmatic trial.
- 2018–2021 Causal mediation methods for studying mechanisms in mental health. Elizabeth Stuart, PI. R01, NIMH.  
Co-investigator. Expert in causal identification of mediation effects.
- 2020 For developing the COVID Collaboration Platform to bring disparate research teams working on the same clinical research questions together to share protocols, data, and evidence. Outside of a few centrally organized trials, most COVID-19 randomized clinical trials are small and/or redundant—and it’s only by aggregating evidence across these trials that we will learn how to best treat COVID-19. FastGrants. Fewer than 1% of applicants were funded under this novel COVID-19 funding mechanism.  
**Principal Investigator.** \$40,000
- 2015–2018 Valid statistical inference for network dependent data. Project grant, Office of Naval Research.  
**Principal Investigator.** \$400,000 over the life of the grant.
- 2015–2020 OPREVENT2. Joel Gittelsohn, PI. R01, NIH/NHLBI.  
Co-investigator. Lead statistician for cluster randomized trial.
- 2016–2020 Individual, Network and Environmental Drivers of HIV and HCV among drug users in India. Sunil Solomon, PI. R01, NIDA.  
Co-investigator. Lead statistician in charge of design and analysis of transmission and drug-sharing network data.
- 2015–2017 Patients’ Views of Streamlined Ethical Oversight. Nancy Kass, PI. Project grant, PCORI.  
Co-investigator. Lead statistician in charge of design and analysis of multi-arm trial.
- 2012–2015 Health outcomes, progressive entrepreneurship, and networks (HopeNet). Alexander Tsai and Bernard Kakuhikire, PIs. Project grant, Friends of a Healthy Uganda.  
Co-investigator. Lead statistician in charge of design of network-based randomized trial.

## ACADEMIC SERVICE

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### DEPARTMENT OF BIostatISTICS

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Awards committee, 2018-present

Hiring committee, 2014-2016

Department retreat planning committee, 2018

Organizer, Causal Inference Working Group, 2013-present

PhD mentoring:

- Youjin Lee
- Bonnie Smith
- Trang Nguyen
- Brian Gilbert

MSc and MHS mentoring:

- Oliver Chen
- Caroline Epstein
- Kathryn Risher
- Qifang Bi

BLOOMBERG SCHOOL OF PUBLIC HEALTH

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Faculty Senate representative, 2019-present

**PRESENTATIONS** (\* upcoming)

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SCIENTIFIC MEETINGS

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|------|---|
| 2021 | Women in Data Science Conference. University of Pennsylvania. February 8-12.          |
| 2020 | Pacific Causal Inference Conference. September 26-27, online.                         |
| 2020 | International Society for Environmental Epidemiology. August 24-27, online.           |
| 2020 | JSM. August 1-6, online.  |
| 2020 | ENAR. March 25, online.   |
| 2020 | Workshop on the Frontiers in Data Science. January 18, Keio University, Tokyo, Japan. |
| 2019 | Computational and Methodological Statistics. December 14-16, London, UK.              |

- 2019 Workshop on Causal Inference with Interactions. December 12-13, Centre for Micro-data Methods and Practice, London, UK.
- 2019 SAMSI Opening Workshop on Causal Inference. December 9-11, Durham, NC.
- 2019 Joint Statistical Meetings. July 27 - August 1, Denver, CO.
- 2019 Atlantic Causal Inference Conference. May 22-24, Montreal, Canada.
- 2019 Causal Inference and Data Science Conference, University of Minnesota. May 2-4, Minneapolis, MN.
- 2018 Computational and Methodological Statistics. December 14-16. University of Pisa, Italy.
- 2018 International Society for Bayesian Analysis. June 24-29. Edinburgh, Scotland.
- 2018 Network Science. June 11-15. Paris, France
- 2018 Atlantic Causal Inference Conference, Carnegie Mellon University. May 21-23, Pittsburgh, PA.
- 2017 Joint Statistical Meetings. July 31-August 3, Baltimore, MD.
- 2017 European Meeting of Statistics. July 24-27, Helsinki, Finland.
- 2017 Network Science. June 21-22, Indianapolis, IN.
- 2017 Time and Causality in the Sciences. June 6-9, Stevens Institute of Technology, Hoboken, NJ. (Keynote)
- 2017 Atlantic Causal Inference Conference. May 23-25, UNC, Chapel Hill, NC. (Discussant)
- 2017 Interagency Modeling and Analysis Group 10th Anniversary Meeting. March 22-24, NIH, Bethesda, MD.
- 2017 Network Science X. January 14-18, Tel Aviv, Israel.
- 2015 Joint Statistical Meetings. August 8-13, Seattle, WA.
- 2015 Workshop on Advances in Causal Inference, Uncertainty and Artificial Intelligence Conference. July 16, Amsterdam, The Netherlands.
- 2015 Atlantic Causal Inference Conference. May 20-21, Philadelphia, PA.
- 2015 United Kingdom Causal Inference Meeting. April 15-17, Bristol, UK.
- 2014 Joint Statistical Meetings. August 2-7, Boston, MA. (Topic Contributed)

- 2014 International Biometric Conference. July 5-7, Florence, Italy. (Contributed)
- 2014 SAMSI Computational Methods for the Social Sciences Transition Workshop. May 5-7, Research Triangle Park, NC.
- 2014 Eastern North American Regional meeting of the International Biometric Society. March 16-19, Baltimore, MD.
- 2013 SAMSI Computational Methods for the Social Sciences Opening Workshop. August 20-23, Research Triangle Park, NC.
- 2013 Joint Statistical Meetings, August 3-8, Montreal, Canada. (Topic Contributed)
- 2013 Society for Epidemiologic Research. June 18-21, Boston, MA.
- 2013 Atlantic Causal Inference Conference. May 20-21, Cambridge, MA.
- 2013 Causality in Networks Conference. May 9-10, Chicago, IL.
- 2012 International Society of Environmental Epidemiology. August 26-30, Columbia, SC.
- 2012 Joint Statistical Meetings. July 28-August 2, San Diego, CA. (Discussant)
- 2012 Joint Statistical Meetings, July 28-August 2, San Diego CA. (Topic Contributed)
- 2012 Atlantic Causal Inference Conference, May 24-25, Baltimore MD. (Poster)
- 2012 North American Regional meeting of the International Biometric Society. April 1-4, Washington, DC.
- 2012 Frontiers in the Analysis of Causal Mechanisms. March 2, Cambridge, MA. (Discussant)
- 2011 Graybill Conference on Nonparametric Statistics, June 23-24, State College CO. (Poster; Student award winning paper)
- 2011 Society for Epidemiologic Research, June 21-24, Montreal QC.
- 2011 Eastern North American Regional meeting of the International Biometric Society, March 20-23, Miami FL. (Poster)
- 2010 Eastern North American Regional meeting of the International Biometric Society, March 21-24, New Orleans LA. (Contributed)

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 INVITED SEMINARS

- 2021\* Department of Statistics, Ohio State University. February 4.

- 2020 Columbia University Political Methodology Group. November 13.
- 2020 Discussant for Online Causal Inference Seminar. Stanford University. November 10. [Slides](#), [Video](#).
- 2020 Department of Mathematics and Statistics, UMass Amherst. October.
- 2020 Department of Biostatistics, Vanderbilt University. October.
- 2020 Ethics and Practice Committee Faculty of Pharmaceutical Medicine Royal Colleges of Physicians. August 20, online.
- 2020 Vivli Center for GlobalClinical Research Data. July 9, online.
- 2020 Data Science Initiative, Brown University. May 8, online.
- 2020 Online Causal Inference Seminar. Stanford University. April 20. [Slides](#), [Video](#).
- 2019 Department of Statistical Science, Temple University. September 27, Philadelphia, PA.
- 2019 Department of Economics Seminar in Econometrics, Northwestern University. September 24, Evanston, IL.
- 2019 Econometrics and Statistics Colloquium, The University of Chicago Booth School of Business. June 6, Chicago, IL.
- 2019 Department of Statistics, Carnegie Mellon University. April 29, Pittsburgh, PA.
- 2019 Department of Statistics, University of Pennsylvania. March 20, Philadelphia, PA.
- 2018 Department of Statistics, Columbia University. November 28, New York, NY.
- 2018 Department of Biostatistics, University of Michigan. April 5, Ann Arbor, MI.
- 2017 Causal Inference Research Group, University of North Carolina. November 3, Chapel Hill, NC.
- 2017 Department of Biostatistics, University of North Carolina. November 2, Chapel Hill, NC.
- 2017 Center for Demography & Ecology and Center for Demography of Health & Aging, University of Wisconsin. October 24, Madison, WI.
- 2017 Office of Naval Research meeting on “Predictive and Causal Modeling - Bridging the Gap,” MIT. September 21-22, Cambridge, MA.
- 2016 Kavli Frontiers of Science Symposium, National Academy of Sciences. November 4-6, Irvine, CA. [Video](#).

- 2016 Department of Statistics, Duke University. February 19, Durham, NC.
- 2016 Computational Social Science Institute, University of Massachusetts. February 12, Amherst MA.
- 2016 Institute for Statistical Mathematics. January 6, Tokyo, Japan.
- 2015 Department of Biostatistics and Epidemiology, University of Pennsylvania. December 1, Philadelphia, PA.
- 2015 Department of Biostatistics, Brown University. November 23, Providence, RI.
- 2015 Department of Statistics, Carnegie Mellon University. November 16, Pittsburgh, PA.
- 2015 Department of Biostatistics, University of Washington. May 7, Seattle, WA.
- 2015 Fred Hutchinson Cancer Research Center. May 6, Seattle, WA.
- 2015 Royal Statistical Society Journal Club. February 24, webinar.
- 2015 Department of Biostatistics, Rochester University. February 12, Rochester, NY.
- 2015 Causal Inference Seminar, McGill University. January 21, Montreal, Canada.
- 2014 Grand Rounds, Department of Biostatistics, Johns Hopkins University. September 8, Baltimore, MD.
- 2014 Department of Biostatistics, University of Pennsylvania. September 4, Philadelphia, PA.
- 2014 Institut National de la Santé et de la Recherche Médicale. June 19, Paris, France.
- 2014 Department of Politics, New York University. May 2, New York, NY.
- 2013 Department of Statistics and Biostatistics, Rutgers University. October 9, Piscataway, NJ.
- 2013 Department of Political Science, Yale University. September 19, New Haven, CT.
- 2013 Department of Statistics, Columbia University. February 4, New York, NY.
- 2013 Department of Statistics, The Wharton School, University of Pennsylvania. January 23, Philadelphia, PA.
- 2013 Department of Biostatistics, Yale University. January 15, New Haven, CT.
- 2012 Johns Hopkins Bloomberg School of Public Health. December 17, Baltimore, MD.



- 2012      EMPH Seminar, Columbia University Mailman School of Public Health. November 13, New York, NY.
- 2012      Causal inference group, Johns Hopkins Bloomberg School of Public Health. October 18, Baltimore, MD.
- 2011      Causal Inference Group, University of Pennsylvania. November 14, Philadelphia, PA.

DIDACTIC LECTURES

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- 2021      Data Science in the Social and Behavioral Sciences SAMSI workshop, January.
- 2020      Causality in Clinical Research: What, Why, When & How. University of Pennsylvania. December 3-4.

WORKSHOP PARTICIPATION (\* upcoming)

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- 2022\*      Simons Institute Program on Causality. University of California, Berkeley, CA.
- 2019-20    Workshop on Causal Inference. SAMSI. Research Triangle Park, NC.
- 2015-16    Workshop on Collective Problem Solving hosted by the MacArthur Foundation's Research Network on Opening Governance.
- 2016      DARPA ISAT What If? Machine Learning for Causal Inference Workshop. MIT and Harvard University. February 11-12, Cambridge, MA.
- 2013-14    Workshop on Computational Methods in Social Science. SAMSI. Research Triangle Park, NC.