

**Caleb H. Miles**  
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## Date of Preparation

September 29, 2023

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## Personal Data

**Name:** Caleb H. Miles  
**Date of Birth:** March 5, 1987  
**Birthplace:** Greensboro, NC  
**Citizenship:** United States

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## Academic Appointments

08/2018–Present    Department of Biostatistics  
Mailman School of Public Health, Columbia University  
Assistant Professor

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## Education

08/2010–07/2015    Harvard University  
PhD in Biostatistics, November 2015  
Thesis title: Semiparametric Methods for Causal Mediation Analysis and Measurement Error  
Miles, C.H. 2015. Semiparametric Methods for Causal Mediation Analysis and Measurement Error. Doctoral dissertation, Harvard University, Graduate School of Arts & Sciences.  
Adviser: Eric J. Tchetgen Tchetgen  
Minor field of study: Epidemiology of HIV

08/2005–12/2009    University of Alabama  
B.S. with honors in Mathematics, *magna cum laude*, December 2009  
Minor field of study: Engineering

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## Training

08/2015–06/2018    Division of Biostatistics  
 University of California, Berkeley  
 Postdoctoral Fellow  
 Adviser: Mark J. van der Laan

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## Honors & Awards

2022                    Calderone Junior Faculty Award, Columbia Mailman School of Public Health  
 2016                    The Biometrics Section of the American Statistical Association’s travel award  
 2015                    The Health Policy Statistics Section of the American Statistical Association’s student paper award  
 2014                    Travel scholarship, Summer Institute in Statistics and Modeling in Infectious Diseases. University of Washington, Seattle.  
 2009                    Phi Beta Kappa  
 2005–2009            Presidential Scholarship, University of Alabama  
 2005                    National Merit Scholar

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## Academic Service

09/2021–present    MS Advising Oversight Committee  
                           • Chair 09/2021–present  
 09/2021–present    Diversity Committee  
                           • Co-chair 09/2021–present  
 04/2020–present    Master’s of Public Health Core Review Working Group Subgroup for the Research Methods and Applications Studio, Columbia Mailman School of Public Health  
 09/2018–present    Inference Qualifying Exam Committee, Department of Biostatistics, Columbia Mailman School of Public Health  
                           • Chair 09/2020–present  
                           • Co-chair 09/2019–08/2020  
 09/2018–present    Communications Committee, Department of Biostatistics, Columbia Mailman School of Public Health  
 09/2018–present    Student Recruitment Committee, Department of Biostatistics, Columbia Mailman School of Public Health  
 06/2020–05/2021,    Organizer, Levin Lecture Series, Department of Biostatistics  
 04/2022–05/2022  
 09/2018–08/2020    Master’s Program Admissions Committee, Department of Biostatistics, Columbia Mailman School of Public Health

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## Professional Organizations, Societies, and Service

### GRANT REVIEW SERVICE

12/2021 *Ad hoc* reviewer, NINDS ZNS1 SRB-G(46) Special Emphasis Panel

### EDITORIAL BOARD

05/2023–Present Associate Editor, *Journal of the Royal Statistical Society, Series C (Applied Statistics)*

11/2018–Present Associate Editor, *International Journal of Biostatistics*

### JOURNAL AND CONFERENCE PROCEEDINGS REVIEWER

*American Journal of Epidemiology*  
*The American Statistician*  
*Annals of Applied Statistics*  
*Biometrical Journal*  
*Biometrics*  
*Biometrika*  
*Biostatistics*  
*Causal Learning and Reasoning*  
*Computational Learning Theory*  
*Conference on Neural Information Processing Systems*  
*Depression and Anxiety*  
*Epidemiology*  
*International Conference on Machine Learning*  
*International Journal of Biostatistics*  
*Journal of Business and Economic Statistics*  
*Journal of Causal Inference*  
*Journal of Educational and Behavioral Statistics*  
*Journal of the American Statistical Association*  
*Journal of the Royal Statistical Society: Series B*  
*Journal of the Royal Statistical Society: Series C*  
*Lifetime Data Analysis*  
*Observational Studies*  
*Proceedings of the National Academy of Sciences*  
*Psychiatric Services*  
*Statistica Sinica*  
*Statistical Methods in Medical Research*  
*Statistical Science*  
*Statistics in Biosciences*  
*Statistics in Medicine*  
*Uncertainty in Artificial Intelligence*

## MEMBERSHIPS

04/2021–Present	Society for Causal Inference
03/2021–Present	Association for Clinical and Translational Science
01/2015–Present	Eastern North American Region (ENAR) of the International Biometrics Society
06/2012–Present	American Statistical Association

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**Fellowship and Grant Support**

## SUBMITTED GRANT PROPOSALS

03/2023	RFA-DA-22-037, R01 NIH / NIMH (Miles, Rudolph) Leveraging harmonized data to improve external validity and efficiency of clinical trials for treating opioid use disorder Contact Principal Investigator
10/2022	RFA-MH-22-180, R34 NIH / NIMH (Greene) Risk and protective factors for common mental disorders among populations during migration. A pilot cohort study among migrants and asylum seekers in Mexico Co-investigator

## PRESENT SUPPORT

10/2022–09/2025	David Lynch Foundation (Neria) A Phase 3 Clinical Trial on Transcendental Meditation and Posttraumatic Stress Disorder, Suicide, and Substance Use in Veterans Co-Investigator
06/2022–05/2024	1R21 MH130217-01, NIH / NIMH (Sandfort) In-depth Understanding of HIV Risk Behavior among Men Who Have Sex With Men in Sub-Saharan Africa: Secondary Analysis of HPTN 075 Data Co-Investigator
06/2022–04/2024	R21 MH126096-01A1, NIH / NIMH (Guglielminotti) Obstetric Anesthesia and Postpartum Depression Co-Investigator
08/2021–05/2026	R01 DA054553-01, NIH / NIDA (Duncan, Knox) Cannabis use, PrEP and HIV transmission risk Among Black MSM in Chicago Co-Investigator
09/2018–07/2023	R01 HS026493-02, NIH / AHRQ (Ing) Prenatal Exposure to Anesthesia and Subsequent Neurodevelopmental Disorders Co-Investigator
09/2018–04/2024	3R01 MD013554-05S1, NIH / NIMHHD (Duncan) Medical Mistrust as a Barrier to COVID-19 and HIV Services Among Transgender Women of Color Co-Investigator
07/2016–05/2026	UL1 TR001873, NIH / NCATS (Reilly)

Clinical and Translational Science Award - Biostatistics Resource  
Biostatistician

PAST SUPPORT

- 03/2020–02/2023 TRANSFORM KL2 Mentored Career Development Award, Irving Institute for Clinical and Translational Research (Shimbo, Genkinger)  
Personalizing Treatment Decisions and Understanding Causal Mechanisms for Functional and Occupational Outcomes Among Patients With Schizophrenia  
Award recipient
- 09/2018–05/2022 R01 MH11719, NIH / NIMH (Compton)  
A Trial of a Police-Mental Health Linkage System for Jail Diversion and Reconnection to Care  
Co-Investigator
- 01/2020–12/2021 Columbia Public Health Innovation Fund (Miles, Rudolph, Valeri)  
New York Causality Network  
Principal Investigator
- 06/2014–06/2021 Bill & Melinda Gates Foundation (Walker)  
Preterm Birth Initiative  
Lead Statistician  
Responsibilities: Oversee impact evaluation of two large facility-level implementation projects to improve preterm birth outcomes in East Africa. Supervise doctoral student.

## Educational Contributions

DIRECT TEACHING

**Specific Courses**

- Fall 2023 Theory of Statistical Inference 1 (9 enrolled students)  
Fall 2022 Theory of Statistical Inference 1 (9 enrolled students)  
Fall 2021 Theory of Statistical Inference 1 (8 enrolled students)  
Fall 2020 Theory of Statistical Inference 1 (6 enrolled students)  
Fall 2019 Theory of Statistical Inference 1 (6 enrolled students)

**Workshops**

- March 2023 Spring School on Causality (co-instructor, 80 students, 4-day workshop of seminars and exercises), Sorbonne Center for Artificial Intelligence (SCAI), Paris, France
- Summer 2022 Causal Mediation Analysis Training: Methods and Applications Using Health Data (co-instructor, 49 students, 3-day intensive boot camp of seminars and hands-on analytical sessions), Skills for Health And Research Professionals (SHARP) Training, Columbia Mailman School of Public Health, New York, NY
- Summer 2021 Causal Mediation Analysis Training: Methods and Applications Using Health Data (co-instructor, 45 students, 3-day intensive boot camp of seminars and hands-on analytical sessions), Skills for Health And Research Professionals (SHARP) Training, Columbia Mailman School of Public Health, New York, NY
- Summer 2020 Causal Mediation Analysis Training: Methods and Applications Using Health Data (co-instructor, 25 students, 3-day intensive boot camp of seminars and hands-on analytical sessions), Skills for Health And Research Professionals (SHARP) Training, Columbia Mailman School of Public Health, New York, NY
- Summer 2019 Causal Mediation Analysis Training: Methods and Applications Using Health Data (co-instructor, 21 students, 3-day intensive boot camp of seminars and hands-on analytical sessions), Skills for Health And Research Professionals (SHARP) Training, Columbia Mailman School of Public Health, New York, NY

**Teaching Assistant**

- Fall 2014 Department of Biostatistics, Harvard School of Public Health  
Course: Methods I  
Professor: Eric J. Tchetgen Tchetgen
- Fall 2013 Department of Biostatistics, Harvard School of Public Health  
Course: Methods I  
Professor: Eric J. Tchetgen Tchetgen
- Fall 2012 Department of Biostatistics, Harvard School of Public Health  
Course: Introduction to Statistical Methods  
Professor: Bernard Rosner  
Note: Head teaching assistant & responsible for two recitation sections
- Fall 2011 Department of Biostatistics, Harvard School of Public Health  
Course: Introduction to Statistical Methods  
Professor: Kimberlee Gauvreau

**Guest Lectures**

03/2022	“A Primer on Causal Inference”, P8586: Applied Methods in Health Services and Outcomes Research, Columbia University, New York, NY
02/2022	“Introduction to Causal Inference: Causal Diagrams & Marginal Structural Models”, Neurology Training Seminar, Columbia University, New York, NY
02/2022	“Introduction to Causal Inference: Potential Outcomes & Confounding”, Neurology Training Seminar, Columbia University, New York, NY
01/2020	“Prediction/Machine Learning and Causality”, Substance Abuse Epidemiology Training Program Seminar, Columbia University, New York, NY
11/2019	“Prediction/Machine Learning and Causality”, Biostatistics, Epidemiology, and Research Design’s Biostatistics in Action Series, Columbia University, New York, NY
10/2019	“Prediction/Machine Learning and Causality”, Clinical Translational Science Awards’ Patient-Oriented Research Colloquium, Columbia University, New York, NY
03/2019	“Introduction to Causal Inference: Causal Diagrams & Marginal Structural Models”, Neurology Training Seminar, Columbia University, New York, NY
02/2019	“Introduction to Causal Inference: Potential Outcomes & Confounding”, Neurology Training Seminar, Columbia University, New York, NY
11/2017	Causal Inference With Interference. Advanced Topics in Causal Inference, University of California, Berkeley
03/2016	Estimation and Inference for a Causal Effect With i.i.d. and Non-i.i.d. Data. Introduction to Modern Biostatistical Theory and Practice, University of California, Berkeley

**DOCTORAL ADVISEES**

2023 (Expected)	Soo Hyun Kim (PhD; Co-adviser)
2025 (Expected)	Amy Pitts (PhD)

**DOCTORAL COMMITTEES**

2022	Denise Shieh (Dissertation Defense)
2022	Craig Heck, Epidemiology, Columbia University (Dissertation Defense)
2022	Melanie Mayer (Oral Qualifying Exam Committee, Chair)
2021	Jiayi Yang, Teacher’s College, Columbia University (Dissertation Defense)
2020	Xiaoqi Lu (Dissertation Defense)
2020	Eun-Jeong Oh (Dissertation Defense)
2019–2020	Rui Lu, Teacher’s College, Columbia University (Dissertation Proposal, Dissertation Defense)

## OTHER MENTORSHIP

2023	Mentor, Summer Training Institute in Biostatistics and Data Science, Department of Biostatistics, Columbia Mailman School of Public Health
2022	Mentor, Summer Training Institute in Biostatistics and Data Science, Department of Biostatistics, Columbia Mailman School of Public Health
2022–present	Research supervisor, James Kelliher (M.S. student, recipient of Chair’s Award for Outstanding Master’s Student), Department of Biostatistics, Columbia University Mailman School of Public Health
2021	Research supervisor (M.S. student), Minhyuk Choi, Department of Biostatistics, Columbia University Mailman School of Public Health
2021–present	Research supervisor (M.S. Theory and Methods track), Bin Yang, Department of Biostatistics, Columbia University Mailman School of Public Health
2021	Mentor, Biostatistics Epidemiology Summer Training Diversity Program, Department of Biostatistics, Columbia Mailman School of Public Health
2021–present	Research adviser, Ngoc Duong (M.S. graduate), Columbia University Irving Medical Center
2021	Master’s practicum adviser (M.S. Theory and Methods track), Ngoc Duong, Department of Biostatistics, Columbia University Mailman School of Public Health
2019	Mentor, Biostatistics Epidemiology Summer Training Diversity Program, Department of Biostatistics, Columbia Mailman School of Public Health
2019–2020	Research supervisor, Bingyu Sun (M.S. student), Department of Biostatistics, Columbia University Mailman School of Public Health
2019–2020	Research supervisor, Youn Kyeong Chang (M.S. student), Department of Biostatistics, Columbia University Mailman School of Public Health
2014	Graduate mentor, Summer Program in Biostatistics & Computational Biology, Department of Biostatistics, Harvard School of Public Health

## Publications

## ORIGINAL, PEER REVIEWED ARTICLES

## REFEREED JOURNAL ARTICLES

1. Knox, J.R., Dolotina, B., Moline, T., Matthews, I., Durrell, M., Hanson, H., Almirol, E., Hotton, A., Pagkas-Bather, J., Chen, Y.-T., English, D., Manuzak, J., Rower, J., **Miles, C.H.**, Millar, B., Jean-Louis, G., Rendina, H.J., Martins, S.S., Grov, C., Hasin, D.S., Carrico, A.W., Shoptaw, S., Schneider, J.A., Duncan, D.T. (2023). HIV prevention and care among Black cisgender sexual minority men and transgender women in Chicago: Protocol for an HIV status neutral cohort study using an observational-implementation hybrid approach. *JMIR Research Protocols* (In press)
2. Rudolph, K.E., Williams, N., **Miles, C.H.**, Antonelli, J., Díaz, I. (2023). All models are wrong, but which are useful? Comparing parametric and nonparametric estimation of causal effects in finite samples. preprint arXiv:2211.10310 *Journal of Causal Inference* (In press)
3. **Miles, C.H.** (2023). On the Causal Interpretation of Randomised Interventional Indirect Effects. preprint arXiv:2203.00245. *Journal of the Royal Statistical Society: Series B* (In



press)

4. Margolin, E.J., Schoenfeld, D., **Miles, C.H.**, Merrill, S.B., Raman, J.D., Thompson, R.H., Reese, A.C., Parekh, D.J., Brown, E.T., Klausner, A., Williams, D.H., Lee, R.K., Zaslau, S., Guzzo, T.J., Shenot, P.J., Anderson, C.B., Badalato, G.M. (2023). Longitudinal Changes in the Operative Experience for Junior Urology Residents. *Urology* (In press)
5. Ha, A.S., Wang, C., Haas, C.R., **Miles, C.H.**, Katz, M.J., Shah, O. (2022). Differences in Management of Pregnant Women with Obstructing Infected Ureteral Stones: A Population-Based Analysis. *International Journal of Urology* (In press)
6. Ing, C., DeStephano, D., Hu, T., Reighard, C., Lackraj, D., Geneslaw, A., **Miles, C.H.**, Kim, M. (2022). Intraoperative blood pressure and long-term neurodevelopmental function in children undergoing ambulatory surgery. *Anesthesia & Analgesia*, 135(4):787–797.
7. Wallace, B.K., **Miles, C.H.**, Anderson, C.B. (2022). Effects of Race and Socioeconomic Status on Treatment for Localized Renal Masses in New York City. *Urologic Oncology: Seminars and Original Investigations*, 40(2), 65.e19–65.e26.
8. Margolin, E.J., Wallace, B.K., Movassaghi, M., **Miles, C.H.**, Shaish, H., Golan, R., Katz, M.J., Anderson, C.B., Shah, O. (2022) Predicting Sepsis in Patients with Ureteral Stones in the Emergency Department. *Journal of Endourology* (In press)
9. Alukal, J., Ha, A., Han, D., Wallace, B., **Miles, C.H.**, Raup, V., Punjani, N., Badalato, G. (2022) A Population-based Analysis of Predictors of Penile Surgical Intervention among Inpatients with Acute Priapism. *International Journal of Impotence Research*, 1–7.
10. Margolin, E.J., Wallace, B.K., Ha, A.S., Katz, M.J., Mikkilineni, N., **Miles, C.H.**, Healy, K.A., Weiner, D.M., Shah, O. (2021). Impact of an Acute Care Urology Service on Timeliness and Quality of Care in the Management of Nephrolithiasis. *Journal of Endourology* (In press)
11. Ha, A.S., Pak, J., Haas, C.R., **Miles, C.H.**, Weiner, D.M., Anderson, C.B., Badalato, G.M. (2021). A Novel Risk Prediction Model to Triage Difficult Urethral Catheterizations. *Urology*, 157, 35–40.
12. Margolin, E.J., Pina Martina, L.A., **Miles, C.H.**, Wenske, S., McKiernan, J.M., DeCastro, G.J., Hyams, E.S., Drake, C.G., Lim, E., Stein, M.N., Deutsch, I., Anderson, C.B. (2021). Telemedicine in Management of Genitourinary Malignancies: Patient and Physician Perspectives. *Urologic Oncology*, 39(8), 480–486.
13. Geneslaw, A.S., Lu, Y., **Miles, C.H.**, Hua, M., Cappell, J., Smerling, A.J., Olfson, M., Edwards, J.D., Ing, C. (2021). Long-Term Increases in Mental Disorder Diagnoses After Invasive Mechanical Ventilation for Severe Childhood Respiratory Disease. *Pediatric Critical Care Medicine*, 22(12), 1013–1025.
14. Ha, A., Wallace, B.K., **Miles, C.H.**, Raup, V., Punjani, N., Badalato, G.M., Alukal, J.P. (2021). Exploring the Use of Exchange Transfusion in the Surgical Management of Priapism in Sickle Cell Disease: A Population-Based Analysis. *Journal of Sexual Medicine*, 18(10), 1788–1796.
15. Duncan, D.T., Ransome, Y., Park, S.H., Jackson, S.D., Kawachi, I., Branas, C.C., Knox, J., Al-Ajlouni, Y.A., Mountcastle, H.D., **Miles, C.H.**, Hickson, D.A. (2021). Neighborhood

- Social Cohesion, Religious Participation and Sexual Risk Behaviors Among Cisgender Black Sexual Minority Men in the Southern United States. *Social Science & Medicine*, 279, 113913.
16. Ing, C., Landau, R., DeStephano, D., **Miles, C.H.**, von Ungern-Sternberg, B.S., Li, G., and Whitehouse, A.J.O. (2021). Prenatal Exposure to General Anesthesia and Childhood Behavioral Deficit. *Anesthesia & Analgesia*, 10–1213.
  17. **Miles, C.H.**, Shpitser, I., Kanki, P., Meloni, S., and Tchetgen Tchetgen, E. J. (2020). On semiparametric estimation of a path-specific effect in the presence of mediator-outcome confounding. *Biometrika*, 107(1), 159–172.
  18. **Miles, C.H.**, Petersen, M., and van der Laan, M.J. (2019). Causal inference when counterfactuals depend on the proportion of all subjects exposed. *Biometrics*, 75(3), 768–777.
  19. **Miles, C.H.**, Schwartz, J., and Tchetgen Tchetgen, E.J. (2018). A class of semiparametric tests of treatment effect robust to confounder measurement error. *Statistics in Medicine*, 37(24), 3403–3416.
  20. **Miles, C.H.**, Shpitser, I., Kanki, P., Meloni, S., and Tchetgen Tchetgen, E.J. (2017). Quantifying an adherence path-specific effect of antiretroviral therapy in the Nigeria PEPFAR program. *Journal of the American Statistical Association*, 112(520), 1443–1452.
  21. **Miles, C.H.**, Kanki, P., Meloni, S., and Tchetgen Tchetgen, E.J. (2017). On partial identification of the natural indirect effect. *Journal of Causal Inference*, 5(2).

#### SELECTED WORKS IN PROGRESS

1. **Miles, C.H.** and Chambaz, A. (2023). Optimal tests of the composite null hypothesis arising in mediation analysis. preprint arXiv:2107.07575 (Under review)
2. Duong, N.Q., Pitts, A.J., Kim, S., **Miles, C.H.** (2023). Sensitivity analysis for transportability in multi-study, multi-outcome settings. preprint arXiv:2301.02904
3. Singh, T., Pitts, A.J., **Miles, C.H.**, Ing, C.H. (2023). Anesthetic Exposure During Early Childhood and Neurodevelopmental Outcomes: Our Current Understanding. (Under review)
4. Isik, O.G., Junaid, S., Guo, L., Landau, R., **Miles, C.H.**, Pennell, C., von Ungern Sternberg, B.S., Whitehouse, A.J.O., Li, G., Ing, C. (2023). Behavioral and neuropsychological outcomes in children after exposure to labor epidural analgesia. (Under review)
5. Ing, C., Silber, J., Lackraj, D., Olfson, M., **Miles, C.H.**, Reiter, J.G., Jain, S., Chihuri, S., Guo, L., Gyamfi-Bannerman, C., Wall, M., Li, G. (2022). Prenatal Exposure to Anesthesia and Subsequent Behavioral Disorders
6. Knox, J.R., Dolotina, B., Moline, T., Matthews, I., Durrell, M., Hanson, H., Almirol, E., Hotton, A., Pagkas-Bather, J., Chen, Y.T., English, D., Manuzak, J., Rower, J., **Miles, C.H.**, Millar, B., Jean-Louis, G., Rendina, H.J., Martins, S.S., Grov, C., Hasin, D.S., Carrico, A.W., Safren, S.A., Shoptaw, S., Schneider, J.A., Duncan, D.T. (2023). Understanding HIV prevention and care among an HIV-status neutral cohort of Black cisgender sexual minority men and transgender women using an observational-implementation hybrid approach: the Neighborhoods and Networks Part 2 (N2P2) Study in Chicago. (Under review)

7. Chung, R., Vila-Reyes, H., **Miles, C.H.**, Decastro, G.J., Anderson, C.B., Drake, C.G., McKiernan, J.M. (2021). Long Term Oncologic Outcomes in Patients with Muscle Invasive Bladder Cancer Who Are Misclassified as Achieving a Complete Clinical Response to Neoadjuvant Chemotherapy: How Costly are Mistakes? (Under review)
8. Margolin, E.J., Wallace, B.K., Movassaghi, M., **Miles, C.H.**, Shaish, H., Golan, R., Katz, M.J., Anderson, C.B., Shah, O. (2021). Predicting Unrecognized Infection in Patients with Ureteral Stones in the Emergency Department. (Under review)
9. Stillman, M.D., Li, G., **Miles, C.H.**, McKiernan, J.M., Anderson, C.B. (2022). Increased Utilization of Intravesical Chemotherapy Following the Introduction of Gemcitabine. (Under review)

#### SOFTWARE

1. Chambaz, A. and **Miles, C.H.** (2021). mediation.test: This packages proposes more powerful tests of the composite null hypothesis arising in mediation analysis. R package version 1.0.0.

#### Invited Talks

1. “Some fundamental problems in causal mediation analysis”, Thematic Quarter on Causality – Opening Session, Institute Henri Poincaré, Paris, France (04/2023)
2. “Two fundamental problems in causal mediation analysis”, Center for Data Analysis and Statistical Science - Adolphe Quetelet Seminar Series, Ghent University, Ghent, Belgium (04/2023)
3. “Optimal tests of the composite null hypothesis arising in mediation analysis”, Biostatistics Seminar, Purdue University, West Lafayette, IN, Virtual (10/2022)
4. “Optimal tests of the composite null hypothesis arising in mediation analysis”, Biostatistics Seminar, Northwestern University, Chicago, IL, Virtual (03/2022)
5. “Optimal tests of the composite null hypothesis arising in mediation analysis”, IMS workshop on “Causal Inference with Big Data”, National University of Singapore, Virtual (12/2021)
6. “On the Causal Interpretation of Randomized Interventional Indirect Effects”, Computational and Methodological Statistics, London, United Kingdom, Hybrid (12/2021)
7. “Optimal tests of the composite null hypothesis arising in mediation analysis”, Practice and Research at the Intersection of Information, Society, and Methodology (PRIISM) Virtual Seminar, New York University, Virtual (10/2021)
8. “Optimal tests of the composite null hypothesis arising in mediation analysis”, Biostatistics Seminar Series, University of Colorado Denver, Virtual (10/2021)
9. “More Powerful Tests of the Composite Null Hypothesis Arising in Mediation Analysis”, International Chinese Statistical Association 2021 Applied Statistics Symposium, Virtual (09/2021)
10. “More Powerful Tests of the Composite Null Hypothesis Arising in Mediation Analysis”, Computational and Methodological Statistics, Virtual (12/2020)

11. "Measurement Error-Robust Causal Inference via Synthetic Instrumental Variables", Computational and Methodological Statistics, London, United Kingdom (12/2019)
12. "Causal Inference When Counterfactuals Depend on the Proportion of All Subjects Exposed", Technology, Operations, and Statistics, New York University, New York, NY (12/2019)
13. "Causal Inference When Counterfactuals Depend on the Proportion of All Subjects Exposed", Operations Research and Information Engineering, Cornell Tech, New York, NY (10/2019)
14. "Causal Inference When Counterfactuals Depend on the Proportion of All Subjects Exposed", Biostatistics Seminar, Johns Hopkins University, Baltimore, MD (10/2019)
15. "Measurement Error-Robust Causal Inference via Synthetic Instrumental Variables", Joint Statistical Meetings, Denver, CO (07/2019)
16. "Causal Inference When Counterfactuals Depend on the Proportion of All Subjects Exposed", Séminaire de Statistiques, Université Paris-Descartes, Paris, France (05/2019)
17. "Causal Inference When Counterfactuals Depend on the Proportion of All Subjects Exposed", Séminaire de Biostatistique, Université de Bordeaux, Bordeaux, France (05/2019)
18. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Levin Lecture Series, Columbia University, New York, NY (01/2018)
19. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Biostatistics Seminar, Vanderbilt University, Nashville, TN (01/2018)
20. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Statistics Seminar, Colorado State University, Fort Collins, CO (01/2018)
21. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Biostatistics Seminar, MD Anderson Cancer Center, Houston, TX (01/2018)
22. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Biostatistics Seminar, University of Pennsylvania, Philadelphia, PA (01/2018)
23. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Biostatistics Seminar, Kaiser Permanente Washington Health Research Institute, Seattle, WA (01/2018)
24. "Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference", Biostatistics Seminar, New York University Division of Biostatistics, New York, NY (12/2017)
25. "Partial Identification Bounds and Path-Specific Effects: Two (More) Options When Faced with Exposure-Induced Confounding", Joint Statistical Meetings, Baltimore, MD (07/2017)
26. "A Class of Semiparametric Tests of Treatment Effect Robust to Confounder Classical Measurement Error", Eastern North American Region of the International Biometric Society Spring Meeting, Washington, DC (03/2017)
27. "A Class of Semiparametric Tests of Treatment Effect Robust to Confounder Classical Measurement Error", Joint Statistical Meetings, Chicago, IL (08/2016)

28. “A Class of Semiparametric Tests of Treatment Effect Robust to Confounder Classical Measurement Error”, Biostatistics Seminar, University of Washington Department of Biostatistics, Seattle, WA (04/2016)
29. “A Class of Semiparametric Tests of Treatment Effect Robust to Measurement Error of a Confounder”, Biostatistics Seminar Series, University of California, Davis Graduate Group in Biostatistics, Davis, CA (02/2016)
30. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, Joint Statistical Meetings, Seattle, WA (08/2015)
31. “Partial Identification of the Pure Direct Effect Under Exposure-Induced Confounding”, Eastern North American Region of the International Biometric Society Spring Meeting, Miami, FL (03/2015)
32. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, McGill University Biostatistics Seminar, Montreal, Canada (03/2015)
33. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, University of North Carolina Causal Inference Research Group, Chapel Hill, NC (02/2015)
34. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, Biostatistics Seminar Series, University of California, Berkeley Division of Biostatistics, Berkeley, CA (02/2015)
35. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, Johns Hopkins University Causal Inference Group, Baltimore, MD (01/2015)
36. “Identification of the Natural Indirect Effect Under Various Models”, Joint Statistical Meetings, Boston, MA (08/2014)
37. “Background and Recent Developments in Causal Mediation Analysis”, Joint Statistical Meetings, San Diego, CA (07/2012)

## Conference Activity

### SESSIONS ORGANIZED

1. Invited to organize: “Causal mediation analysis and principal stratification”, International Conference on Econometrics and Statistics, Tokyo, Japan (07/2023)
2. Invited to organize: “External Validity and Data Fusion in Causal Inference”, International Conference on Econometrics and Statistics, Kyoto, Japan (06/2022)
3. “Identifying and Addressing Sources of Bias in Causal Inference”, Joint Statistical Meetings, Denver, CO (07/2019)

## CONTRIBUTED TALKS

1. “On the Causal Interpretation of Randomized Interventional Indirect Effects”, European Causal Inference Meeting, Oslo, Norway (04/2023)
2. “On the Causal Interpretation of Randomized Interventional Indirect Effects”, American Causal Inference Conference, Berkeley, CA (05/2022)
3. “Optimal tests of the composite null hypothesis arising in mediation analysis”, European Causal Inference Meeting, Virtual (09/2021)
4. “When Randomized Interventional Indirect Effects Tell Stories About Mediated Effects (and When They Don’t)”, Joint Statistical Meetings, Virtual (08/2021)
5. “A More Powerful Test of the Composite Null Hypothesis Arising in Mediation Analysis”, Joint Statistical Meetings, Virtual (08/2020)
6. “A Class of Semiparametric Tests of Treatment Effect Robust to Confounder Classical Measurement Error”, International Biometric Conference, Victoria, Canada (07/2016)
7. “Semiparametric Estimation of Path-Specific Effects in the Presence of Unmeasured Confounding and Exposure-Induced Confounding”, Joint Statistical Meetings, Montreal, Canada (08/2013)

## POSTERS

1. “The Central Role of the Mediator Process in Mediation Analysis”, American Causal Inference Conference, Austin, TX (05/2023)
2. “Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference”, IMS New Researchers Conference, Baltimore, MD (07/2017)
3. “Causal Inference for a Single Group of Causally-Connected Units Under Stratified Interference”, Atlantic Causal Inference Conference, Chapel Hill, NC (05/2017)
4. “Semiparametric Estimation of Path-Specific Effects in the Presence of Unmeasured Confounding and Exposure-Induced Confounding”, Atlantic Causal Inference Conference, Boston, MA (05/2013)

**Campus Talks**

1. “The central role of the mediator process in mediation analysis”, Functional Data Analysis Working Group, Columbia University Department of Biostatistics, New York, NY (05/2023)
2. Panelist on “An (Un)Holy Union: Causal Inference, Semiparametric Statistics and Machine Learning in the Age of Data Science” by E.J. Tchetgen Tchetgen, Centennial Distinguished Speakers Seminar, Columbia University, New York, NY (02/2022)
3. “Accounting for Measurement Error in a Study of the Total and Mediated Effects of Maternal Protein Intake and Lead Exposure on Birth Length”, Levin Lecture Series, Columbia University, New York, NY (04/2020)

4. “Causal Inference in Partially-Observed Networks”, Mailman School of Public Health School Assembly, Columbia University, New York, NY (10/2018)
5. “On Partial Identification of the Pure Direct Effect”, Biostatistics Seminar Series, University of California, Berkeley Division of Biostatistics, Berkeley, CA (09/2015)
6. “Quantifying an Adherence Path-Specific Effect of Antiretroviral Therapy in the Nigeria PEPFAR Program”, Harvard University Department of Biostatistics HIV Working Group Seminar, Boston, MA (02/2015)