

CURRICULUM VITAE

July 26, 2022

Pricila H. Mullachery

CONTACT INFORMATION

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EDUCATION

PhD	2018	New York University, School of Global Public Health, Department of Public Health Policy and Management Dissertation title: “ <i>Brazil’s Health Policies 2000-2013: Did they reduce health care inequities?</i> ” Mentors: Diana Silver & James Macinko.
MPH	2012	New York University, New York City, NY.
MS	2007	Fundação Oswaldo Cruz (Fiocruz Foundation), Brazil
DDS	2002	University of Pernambuco, College of Dentistry, Brazil

PROFESSIONAL APPOINTMENTS

July 2022 - present	Assistant Professor, Department of Health Services Administration and Policy, College of Public Health, Temple University, Philadelphia, PA.
July 2021-June 2022	Senior Research Scientist, Urban Health Collaborative, Dornsife School of Public Health, Drexel University, Philadelphia, PA.
Jan 2019-June 2021	Postdoctoral Research Fellow & Cotswold Fellow, Urban Health Collaborative, Dornsife School of Public Health, Drexel University, Philadelphia, PA.
2016 - 2018	Research Scientist, Director of the Pregnancy Risk Assessment Monitoring System, New York City Department of Health and Mental Hygiene, New York City, NY.
2014 - 2016	Research Scientist, Inter-American Development Bank, Washington, DC.
2013 - 2015	Adjunct Faculty, Department of Nutrition, Food Studies, and Public Health, New York University, New York City, NY.
2013	Research Assistant, Department of Nutrition, Food Studies, and Public Health, New York University, New York City, NY.
2009 - 2012	Public Health Specialist, National Birth Defects Prevention Study, New York State Department of Health, New Rochelle, NY.

CURRENT RESEARCH SUPPORT

Robert Wood Johnson Foundation – Health Data for Action 12/1/2021 – 11/30/2022
Mullachery, Pricila (PI) Total cost: \$100,000
Title: Assessing individual- and neighborhood-level indicators of social determinant of health in predicting COVID-19 outcomes.
Aim: To examine associations between individual- and neighborhood-level indicators of SDOH and COVID-19 outcomes in a large and diverse cohort of patients in the Greater Philadelphia Region.
Data: patient-level longitudinal electronic health records from a cohort of patients in the HealthShare Exchange (HSX) Clinical Data Repository linked to neighborhood-level data for several socioeconomic and built environment characteristics. This study examines inequities in COVID-19 outcomes across different groups such as low-income patients (i.e., Medicaid or dual-eligible Medicare beneficiaries) and patients from diverse racial/ethnic groups (i.e., Black and Latinx).

PAST RESEARCH SUPPORT

National Institutes of Health, Office of the Director 09/01/18 - 06/30/22
Bilal, Usama (PI)
Title: The Health Consequences of Urban Scaling
Role: Postdoctoral fellow (2019-2021). Research scientist (2021-2022).

Cotswold Foundation Postdoctoral Fellowship 01/01/21 – 3/31/22
Mullachery, Pricila (PI)
Title: The relationship between state-level Medicaid policies and access to treatment for substance use disorders. Seed grant to conduct preliminary data collection on Medicaid policies designed to expand treatment for substance use disorders.

Robert Wood Johnson Foundation 12/15/20 – 12/31/21
Diez Roux, Ana and Bilal, Usama (PIs)
Title: Tracking equity issues in COVID-19 testing and vaccination access in selected US cities.
Role: Lead of the quantitative component to measure spatial accessibility.

New York University 12/01/11 - 04/01/12
Mullachery, Pricila (Co-PI)
Title: A qualitative evaluation of a naturopathic medicine program from the Guatemalan highlands. This project was financed by the Capstone program from the NYU Master in Global Public Health.
Role: Co-PI

Pan American Health Organization 2011-2013
Macinko, James (PI)
Title: Assessing Primary Health Care and Health Systems in the Americas
Role: Research Assistant

PUBLICATIONS (*denotes co-first authorship)

- Accepted **Mullachery P.**, Vela E., Cleries M., Comin-Colet J., Nasir K., Diez Roux A.V., Cainzos-Achirica M., Mauri J., Bilal U. Inequalities by income in the prevalence and incidence of cardiovascular disease and its risk factors in the adult population of Catalonia. *Journal of the American Heart Association*. doi:10.1161/JAHA.122.026587
- Accepted Moran K., **Mullachery P.***, Lankenau S., Bilal U. Changes in racial/ethnic disparities in opioid-related outcomes in urban areas during the COVID-19 pandemic: a rapid review of the literature. *International Journal of Environmental Health and Public Health*.
- Accepted Schnake-Mahl A., **Mullachery P.**, Li R., Purtle J., Diez Roux A.V., Bilal U. Heterogeneity in Disparities in Life Expectancy Across US Metropolitan Areas. *Epidemiology*.
- 2022 Macinko J., **Mullachery P.** Primary care experiences among Brazilian adults: cross-sectional evidence from the 2019 National Health Survey. *PLoS one*. <https://doi.org/10.1371/journal.pone.0269686>
- 2022 Macinko J., **Mullachery P.*** Education-related health inequities in noncommunicable diseases. An analysis of the Brazilian National Health Survey, 2013 and 2019. *Cad. Saúde Pública* 2022; 38 Sup 1:e0013772. doi:10.1590/0102-311X00137721
- 2022 **Mullachery P.**, Macinko J. The authors reply: Education-related health inequities in noncommunicable diseases. An analysis of the Brazilian National Health Survey, 2013 and 2019. *Cad. Saúde Pública* 2022; 38 Sup 1:e00010422. doi:10.1590/0102-311X00010422
- 2022 Bilal U., **Mullachery P.**, Schnake-Mahl A., Rollins H., McCulley E., Kolker J., Barber S., Diez Roux A.V. Spatial Inequities in COVID-19 Vaccination in 16 Large US Cities. *American Journal of Epidemiology*, kwac076, doi.org/10.1093/aje/kwac076
- 2022 McCulley E. M., **Mullachery P.**, Ortigoza A., Rodriguez D., Diez Roux A. V., Bilal U. Urban scaling of health outcomes: a scoping review. *Journal of Urban Health*. <https://doi.org/10.1007/s11524-021-00577-4>
- 2022 Bilal U., McCulley E., Li R., Rollins H., Schnake-Mahl A., **Mullachery P.**, Vaidya V., Koh C., Furukawa A., Dureja K., Sharaf A., Julian C., Barber S., Kolker J., Diez Roux A.V. Tracking COVID-19 Inequities across jurisdiction represented in the Big Cities Health Coalition: The COVID-19 Health Inequities in BCHC Cities Dashboard. *American Journal of Public Health*. 2022: e1–e9. doi.org/10.2105/AJPH.2021.306708
- 2022 **Mullachery P.**, Lankenau S., Diez Roux A.V., Li R., Henson R.M., Bilal U. Urban scaling of opioid overdose deaths in the United States. *BMJ Open* 12:e048831. doi:10.1136/bmjopen-2021-048831

- 2021 **Mullachery P.**, Bilal U. Urban scaling of opioid analgesic sales in the United States. *PLoS One* 16(10): e0258526. doi.org/10.1371/journal.pone.0258526
- 2021 **Mullachery P.**, Rodriguez D., Miranda J.J., Lopez-Olmedo N., Martinez-Folgar K., Barreto M.L., Diez Roux A.V., Bilal U. Mortality amenable to health care in Latin American cities: Examining between-country variation in amenable mortality and the role of urban metrics. *International Journal of Epidemiology*, 1–11 doi: 10.1093/ije/dyab137
- 2021 **Mullachery P.**, Bilal U. (2021). Social cross-over in cardiovascular disease: context matters. *Heart*, 101, 778-780. dx.doi.org/10.1136/heartjnl-2020-318691
- 2021 Schnake-Mahl A., O'Leary G., **Mullachery P.**, Vaidya V., Connor G., Rollins H., Kolker J., Diez Roux A., Bilal U. Evaluating the impact of keeping indoor dining closed on COVID-19 rates among large US cities: a quasi-experimental design. *Epidemiology*. doi: 10.1097/EDE.0000000000001444
- 2021 Bilal U., de Castro C.P., Alfaro T., Barrientos-Gutierrez T., Barreto M.L., Leveau C.M., Martinez-Folgar K., Miranda J.J., Montes F., **Mullachery P.**, Pina M.F., 2021. Scaling of mortality in 742 metropolitan areas of the Americas. *Science Advances*, 7(50), p.eabl6325. doi: 10.1126/sciadv.abl6325
- 2020 **Mullachery P.**, Macinko J., & Silver D. Have Health Reforms in Brazil Reduced Inequities in Access to Cancer Screenings for Women?. *The Journal of Ambulatory Care Management*, 43(3), 257-266. doi: 10.1097/JAC.0000000000000333
- 2019 McCulley E. M., **Mullachery P.**, Rodriguez D., Roux A. V. D., & Bilal U. Urban scaling of health outcomes: a protocol for a scoping review. *BMJ open*, 9(11), e031176. dx.doi.org/10.1136/bmjopen-2019-031176
- 2019 Szwarcwald C. L., Leal M. D. C., Esteves-Pereira A. P., Almeida W. D. S. D., Frias P. G. D., Damacena G. N., ... & **Mullachery P.** Evaluation of data from the Brazilian Information System on Live Births (SINASC). *Cadernos de Saude Publica*, 35(10). doi.org/10.1590/0102-311x00214918
- 2019 Deputy N. P., Sharm, A. J., Bombard J. M., Lash T. L., Schieve L. A., Ramakrishnan U., **Mullachery P.**, & Lee, E. Quality of maternal height and weight data from the revised birth certificate and pregnancy risk assessment monitoring system. *Epidemiology*, 30(1), 154-159. doi:10.1097/EDE.0000000000000936
- 2017 Harris M., Macinko J., Jimenez G., & **Mullachery P.** Measuring the bias against low-income country research: an Implicit Association Test. *Globalization and health*, 13(1), 1-9. doi.org/10.1186/s12992-017-0304-y
- 2016 **Mullachery P.**, Silver D., & Macinko J. Changes in health care inequity in Brazil between 2008 and 2013. *International Journal for Equity in Health*, 15(1), 1-12. doi.org/10.1186/s12939-016-0431-8

- 2016 Macinko J., Guanais F. C., **Mullachery P.**, & Jimenez, G. Gaps in primary care and health system performance in six Latin American and Caribbean countries. *Health Affairs*, 35(8), 1513-1521. doi.org/10.1377/hlthaff.2015.1366
- 2016 Waiswa P., O'Connell T., Bagenda D., **Mullachery P.**, Mpanga F., Henriksson D. K., ... & Peterson S. S. Community and District Empowerment for Scale-up (CODES): a complex district-level management intervention to improve child survival in Uganda: study protocol for a randomized controlled trial. *Trials*, 17(1), 1-8. doi.org/10.1186/s13063-016-1241-4
- 2015 Macinko J., **Mullachery P.**, Silver D., Jimenez G., & Neto O. L. M. Patterns of alcohol consumption and related behaviors in Brazil: Evidence from the 2013 National Health Survey (PNS 2013). *PLOS one*, 10(7), e0134153. doi.org/10.1371/journal.pone.0134153
- 2012 Macinko J., **Mullachery P.**, Proietti F. A., & Lima-Costa M. F. Who experiences discrimination in Brazil? Evidence from a large metropolitan region. *International Journal for Equity in Health*, 11(1), 1-11. https://doi.org/10.1186/1475-9276-11-80
- 2010 Frias P. G. D., **Pereira P. M. H.**, Andrade C. L. T. D., Lira P. I. C. D., & Szwarcwald C. L. Evaluation of data on mortality and live births in Pernambuco State, Brazil. *Cadernos de Saude Publica*, 26(4), 671-681. doi.org/10.1590/S0102-311X2010000400010
- 2008 Frias P. G., **Pereira P. M. H.**, Andrade C. L., & Szwarcwald C. L. Mortality Data System: A case study on municipalities with data underreporting. *Cadernos de Saude Publica*, 24(10), 2257-2266.
- 2006 **Pereira P. M. H.**, Frias P. G. D., Carvalho P. I. D., Vidal S. A., & Figueiroa J. N. Mortalidade neonatal hospitalar na coorte de nascidos vivos em maternidade-escola na Região Nordeste do Brasil, 2001-2003. *Epidemiologia e Serviços de Saúde*, 15(4), 19-28.
- 2005 Frias P. G. D., Vidal S. A., **Pereira P. M. H.**, Lira P. I. C. D., & Vanderlei L. C. Evaluation of child mortality notifications to the Information System for Infant Deaths: a case study. *Revista Brasileira de Saúde Materno Infantil*, 5, s43-s52.

Manuscripts under peer-review

- **Mullachery P.**, Li R., Nelly S., Kolker J., Barber S., Diez Roux A.V., Bilal U. Inequity in spatial accessibility to COVID-19 testing in 30 large US cities. Status: Revise and resubmit.
- **Mullachery P.**, Quistberg D. A. Lazo M., Indvik K., Perez-Ferrer C., Lopez-Olmedo N., Colchero A., Bilal U. Measuring the effect of sobriety checkpoints on road traffic deaths in Mexico: a difference-in-difference approach with variation in treatment timing. Status: Under review.

Book Chapters

- 2018 Guanais, F, Perez-Cuervas P, Anaya M, Doubova S V, **Mullachery P**. Atencion primaria de salud, marco conceptual y metodologia del estudio. In: Desde el paciente: Experiencias de la atención primaria de salud en América Latina y el Caribe. Inter-American Development Bank.
- 2009 Frias PG, **Mullachery P**, Giugliani ERJ. Políticas de Saúde direcionadas as crianças brasileiras. In: Saúde Brasil 2008: 20 anos de Sistema Único de Saúde (SUS) no Brasil. Ministério da Saúde: Brasília. p. 85-110.

Other publications (not peer-reviewed)

- 2021 **Mullachery P**. Exploring the role of population dynamics in the opioid epidemic. Blog post. <https://drexel.edu/uhc/about/News/2021/October/OpioidEpidemic/>?
- 2021 Li R., **Mullachery P.**, Melly S. Spatial accessibility to COVID-19 test metric. Blog post. <https://www.covid-inequities.info/blog/2021/04/28/2021-04-08-testing-site-metrics-spatial-accessibility/>
- 2021 **Mullachery P.**, Diez Roux A.V., Bilal U. Preventable deaths differ dramatically in Latin merica. Interactive maps accompanying the paper “Mortality amenable to health care in Latin American cities: Examining between-country variation in amenable mortality and the role of urban metrics”. <https://storymaps.arcgis.com/stories/e0c74e6197bb48bcb749e8300768916a>
- 2017 Fiorentini C, **Mullachery P**. Postpartum Depression in New York City. NYC Vital Signs. 16(5); 1-4.
- 2015 Macinko J, **Mullachery P**, Jimenez G. Assessing Primary Health Care and Health System Performance in Latin America and the Caribbean: Results of nationally representative surveys. Inter-American Development Bank Report.
- 2012 **Mullachery P**, Cote M, Derejko KS, Hodge J. A qualitative evaluation of a naturopathic medicine-based program from the Guatemalan highlands. Final report of the research funded by New York University as a Capstone Master project.

ACADEMIC CONFERENCES

Panels organized

- 2021 Panel: Inequities in COVID-19 in US cities: tools and metrics to track inequities and inform population health policy. Panelists: Usama Bilal, Pricila Mullachery, Benjamin Spoer, and Jennifer Kolker. Interdisciplinary Association for Population Health Science (IAPHS) Annual Conference.

Oral presentations and posters (most relevant)

- 2022 **Mullachery P.**, Quistberg D. A. Lazo M., Indvik K., Perez-Ferrer C., Lopez-Olmedo N., Colchero A., Bilal U. Measuring the effect of sobriety checkpoints on road traffic deaths in Mexico: a difference-in-difference approach with variation in treatment timing. Oral Abstract Session. 2022 Meeting – Society for Epidemiologic Research. June 2022.
- 2021 **Mullachery P.**, Lima VK, Nunes ML, dos Santos JV, Felix GC, Costa JM. Hospital admissions due to ischemic health disease before and after the COVID-19 pandemic: using a natural experiment to measure the effects of shocks to the healthcare system. Oral presentation. Congresso Brasileiro de Epidemiologia (Brazilian Epidemiology Conference). November 2021.
- 2021 **Mullachery P.** Using potential community demand to examine inequity in access to COVID-19 testing in 30 large US cities. Panel presenter. Interdisciplinary Association for Population Health Science (IAPHS) Annual Conference.
- 2020 **Mullachery P.** Policy evaluation in complex policy environments: the case of opioid policies in the US. Panel presenter. Interdisciplinary Association for Population Health Science (IAPHS) Annual Conference.
- 2019 **Mullachery P.**, Bilal U. Urban scaling of drug fatalities in the U.S. Urban Health Symposium. Poster presentation. Dornsife School of Public Health, Philadelphia, PA.
- 2019 **Mullachery P.**, Bilal U. Mortality amenable to health care in Latin American cities. Salud Urbana en America Latina (SALURBAL) bianual meeting. Belo Horizonte, Brazil. Oral presentation. Belo Horizonte, Brazil.
- 2018 **Mullachery P.**, McNab S, Searing H, Roberts L, Freedman L. Creating a PRAMS supplement to measure disrespect and abuse during childbirth in New York City. Oral presentation. PRAMS National Meeting, Portland, OR.
- 2017 **Mullachery P.**, Searing H, Wolf N. Racial Inequity in preconception health and health care in New York City, PRAMS 2004-2014. Poster presentation. City MatCH Conference, Nashville, TN.
- 2016 **Mullachery P.**, Silver D, Macinko J. Horizontal equity in utilization of cancer screenings in Brazil, 2003-2013. Panel presenter. A Panorama of health inequities in Brazil. Rio de Janeiro, Brazil.
- 2013 **Mullachery P.**, Macinko J, Lima-Costa MF. Horizontal inequity in health care utilization: Findings from a large metropolitan region in Brazil. Poster presentation. American Public Health Association Conference. Boston, MA.

CAMPUS OR DEPARTMENTAL TALKS (most recent)

- 2021 **Mullachery P.** Inequities in accessibility to COVID-19 testing in 30 large US cities. Urban Health Collaborative's Forum, Drexel University.
- 2021 **Mullachery P.** Quasi-experimental designs in public health and policy evaluation: a brief introduction. Presented at the Salud Urbana en America Latina (SALURBAL) meeting.
- 2020 **Mullachery P.** Medication-assisted treatment among Medicaid beneficiaries with opioid use disorders: a proposal to evaluate state approaches in a complex policy environment. Brown Bag series. Urban Health Collaborative, Drexel University.
- 2019 **Mullachery P.** A novel approach in urban health: the urban scaling of the opioid epidemic. Brown Bag series. Urban Health Collaborative, Drexel University.
- 2018 **Mullachery P.** Pregnancy Risk Assessment Monitoring System. NYC PRAMS Steering Committee presentation. New York City Department of Health and Mental Hygiene.
- 2018 **Mullachery P.** Measuring disrespect and abuse during childbirth in NYC. The Pregnancy Risk Assessment Monitoring System (PRAMS) supplemental questionnaire. Presented at the Sexual and Reproductive Justice Community Engagement Group meeting organized by the New York City Department of Health and Mental Hygiene.
- 2018 **Mullachery P.** Influenza and Tdap vaccination during pregnancy in NYC. Presented at the Annual Adult Immunization Coalition Meeting organized by the New York City Department of Health and Mental Hygiene.
- 2018 **Mullachery P.** Brazil's health policy 2000-2013: Did they reduce health care inequities? Department of Public Health Policy and Management, New York University.

TEACHING

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| Summer 2021 | Drexel University, Dornsife School of Public Health
Applied Policy and Program Evaluation for Urban Health. UHC Summer Institute. Instructor. | Graduate |
| Winter 2021 | Drexel University, Dornsife School of Public Health
Advanced topics in epidemiology. Invited lecturer. | Graduate |
| Spring 2020 | Drexel University, Dornsife School of Public Health
Introduction to Causal Inference and Directed Acyclic Graphs. Instructor - 3 workshops. | Graduate |
| Summer 2019 | Drexel University, Dornsife School of Public Health
Introduction to Multilevel Analysis for urban Health Research. UHC Summer Institute. Teacher assistant. | Graduate |

Fall 2016	New York University, College of Global Public Health Global Issues in Social and Behavioral Health. Invited lecturer.	Graduate
Spring 2015	New York University, Department of Nutrition, Food Studies, and Public Health Research Methods. Adjunct lecturer.	Graduate
Spring 2013 – Spring 2015 (3 semesters)	New York University, Department of Nutrition, Food Studies, and Public Health Introduction to Epidemiology. Adjunct lecturer.	Graduate
Fall 2013	New York University, Department of Population Health Advanced Epidemiology. Teaching assistant.	Graduate

AWARDS AND FELLOWSHIPS

2021	Drexel University. Cotswold Foundation Postdoctoral Fellowship. This award is to support postdoctoral fellows. Award amount: \$50,000 for salary and research support.
2018	NYC Department of Health and Mental Hygiene’s “Make it Happen Award” for research innovation on maternal and child health.
2015-2016	College of Global Public Health Scholarship for doctoral support and stipend
2012-2014	Steinhardt Doctoral Student Scholarship for doctoral support and stipend
2013	Doctoral Student Travel Fund Award to present work at the American Public Health Association conference.

PROFESSIONAL AFFILIATIONS AND MEMBERSHIP

2022-present	Society for Epidemiologic Research
2021-present	Society for Causal Inference
2019-present	Interdisciplinary Association for Population Health Sciences

SERVICE

Service to department

2022	Member of the Dornsife School of Public Health Awards Committee.
2019 - 2022	Member of the SALURBAL (<i>Salud Urbana en Latin America</i> /Urban Health in Latin America) project.

2019 - 2022	Member of the Social and Environment Core to harmonize and construct data documentation for the SALURBAL project.
2019 - 2022	Reviewer, Publications and Presentations committee of the SALURBAL project.
2013 - 2014	Student representative, New York University self-study for the decennial Middle States Commission on High Education reaccreditation

Professional and community service activities

2021 – present	Member of the Philadelphia PRAMS steering committee. Philadelphia Department of Public Health
2021 - present	Organizer of the yearly mentoring roundtables seminars. Interdisciplinary Association for Population Health Science (IAPHS)
2020 - present	Member, Professional Development Committee of the Interdisciplinary Association for Population Health Science (IAPHS)
2019 - present	Abstract reviewer, Interdisciplinary Association for Population Health Sciences Conference

EDITORIAL AND REVIEW ACTIVITIES

Editorial Boards

Associate Editor, Brazilian Journal of Mather and Child Health

Journal Reviewer

BMJ, American Journal of Epidemiology, International Journal for Health Equity, International Journal of Health Policy and Management, Cadernos de Saude Publica, PLOS One.

MENTORING

PhD Student, Dissertation Committee

- Rosie Mae Henson, (T37 Gather Fellow, and PhD in Health Management and Policy, Ongoing); Dissertation title: TBD)

Master student research project

- Kimberly Guglielmo, (MS in Biostatistics); Project title: Disparities in social determinants of health and health care utilization in the Greater Philadelphia Region.
- Bhavita Kalambekar, (MPH, Epidemiology); Project title: Disparities in opioid-related outcomes: A review of the literature.

Undergraduate research projects

- Kara Moran, (STAR Scholars Summer project, completed 2021); Project title: Examining disparities in opioid outcomes during the COVID-19 pandemic.

CAREER AND PROFESSIONAL DEVELOPMENT TRAINING

- 2021 National Institutes of Health
NIH Virtual Seminar on Program Funding and Grants Administration
- 2021 Mentoring roundtable seminar: Building and maintaining supportive relationships as a mentee and as a mentor. Facilitated by Stephanie Robert
Interdisciplinary Association for Population Health Sciences
- 2021 Mentoring roundtable seminar: Tips for a successful K award
Interdisciplinary Association for Population Health Sciences
- 2020-2021 Addiction Health Services Conference – Workshops:
-Methods Workshop: State-level opioid policy analysis: Moving beyond the classic difference-in-difference model. (December 2020)
-Tips to launch a successful career for early investigators. (February 2021)
- 2020 National Institute of Drug Abuse
NIDA Career Workshop
- 2020 Interdisciplinary Association for Population Health Sciences
NIH Early Career Development Awards Seminar
- 2020 Drexel University Anti-Racist Pedagogy Workshop

QUANTITATIVE METHODS TRAINING

- 2022 Society for Epidemiologic Research Pre-conference Workshops: Introduction to parametric and semi-parametric estimators for causal inference and Causal inference for multiple time points. May 2022.
- 2021 Difference-in-difference with panel data. Intensive two-day workshop. Economics Department at Michigan State University.
- 2020 Longitudinal Data Analysis using Structural Equation Modelling. Statistical Horizons.
- 2019 Directed Acyclic Graphs for Causal Inference. Statistical Horizons.
- 2019 Introduction to Bayesian Analysis for Public Health. Drexel Summer Institute
- 2018 Multilevel modeling. Epidemiology and Population Health Summer Institute at Columbia University.
- 2017 Establishing causal inferences: propensity score matching, interrupted time series, and regression discontinuity models. SAS Training Center.
- 2013 Advanced STATA programing. StataCorp.