

Loni Philip Tabb, Ph.D.

CONTACT INFORMATION	Drexel University Dornsife School of Public Health Department of Epidemiology and Biostatistics 3215 Market Street Philadelphia, Pennsylvania 19104 USA	<i>Office:</i> +1-267-359-6217 <i>Fax:</i> +1-267-359-6201 <i>E-mail:</i> lpp22@drexel.edu <i>WWW:</i> www.drexel.edu/dornsife
RESEARCH INTERESTS	Spatial and spatio-temporal statistics/epidemiology, disease mapping, health and social inequities, statistical operationalization of structural racism, categorical data analysis, Bayesian statistical methods	
EDUCATION	Harvard University , Cambridge, Massachusetts Ph.D., Biostatistics, 2010 <ul style="list-style-type: none">• Dissertation: <i>Multilevel Models for Zero-Inflated Count Data in Environmental Health and Health Disparities Research</i>• Advisor: Brent A. Coull, Ph.D. A.M., Biostatistics, 2007 Drexel University , Philadelphia, Pennsylvania M.S., Mathematics, 2005 B.S., Mathematics, 2003	
ACADEMIC APPOINTMENTS	Associate Dean for Faculty Affairs Dornsife School of Public Health Drexel University Philadelphia, Pennsylvania	2023 to present
	Associate Professor (with Tenure) Department of Epidemiology and Biostatistics Drexel University Philadelphia, Pennsylvania	2017 to present
	Research and Data Core Co-Lead Urban Health Collaborative Drexel University Philadelphia, Pennsylvania	2022 to present
	Non-Resident Fellow Urban Institute Washington, D.C.	2021 to 2022
	Assistant Professor Department of Epidemiology and Biostatistics Drexel University Philadelphia, Pennsylvania	2009 to 2017

1. Smith, L. B., O'Brien, C. Kenney, G. M., **Tabb, L. P.**, Verdeflor, A., Wei, K., Lynch, V., Waidmann, T. (2023). Racialized economic segregation and potentially preventable hospitalizations among Medicaid/CHIP-enrolled children. *Health Services Research*, 58(3), 599-611.
2. Brown, J.** , Hirsch, J. A., **Tabb, L. P.**, Judd, S., Bennett, A., Rundle, A., Lovasi, G. A. (2023). A segmented regression analysis of household income and recurrent falls among adults in a national cohort study. *American journal of epidemiology*, kwad211.
3. Guan, J.** , Hirsch, J. A., **Tabb, L. P.**, Hillier, T. A., & Michael, Y. L. (2022). The association between changes in built environment and changes in walking among older women in Portland, Oregon. *International journal of environmental research and public health*, 19(21), 14168.
4. Callander, D., Kim, B., Domingo, M., **Tabb, L. P.**, Radix, A., Timmins, L., ... & Duncan, D. T. (2022). Examining the geospatial distribution of health and support services for transgender, gender nonbinary, and other gender diverse people in New York City. *Transgender Health*, 7(4), 369-374.
5. **Tabb, L. P.**, Rich, J. A., Waite, D., Alberto, C.** , Harris, E., Gardner, J., Gentile, N., & Corbin, T. (2022). Examining Associations between Adverse Childhood Experiences and Posttraumatic Stress Disorder Symptoms among Young Survivors of Urban Violence. *Journal of Urban Health*, 99(4), 669-679.
6. Kondo, M. C., Zuidema, C., Moran, H. A., Jovan, S., Derrien, M., Brinkley, W., ... & **Tabb, L. P.** (2022). Spatial predictors of heavy metal concentrations in epiphytic moss samples in Seattle, WA. *Science of The Total Environment*, 825, 153801.
7. Mujahid, M. S., Gao, X., **Tabb, L. P.**, Morris, C., & Lewis, T. T. (2022). Reply to Gombay: The utility of HOLC maps to capture historical housing discrimination. *Proceedings of the National Academy of Sciences*, 119(17), e2201140119.
8. Bragg, M., Chavarro, J. E., Hamra, G. B., Hart, J. E., **Tabb, L. P.**, Weisskopf, M. G., ... & Lyall, K. (2022). Prenatal Diet as a Modifier of Environmental Risk Factors for Autism and Related Neurodevelopmental Outcomes. *Current Environmental Health Reports*, 1-15.
9. **Tabb, L. P.**, Roux, A. V. D., Barber, S., Judd, S., Lovasi, G., Lawson, A., & McClure, L. A. (2022). Spatially varying racial inequities in cardiovascular health and the contribution of individual-and neighborhood-level characteristics across the United States: The REasons for geographic and racial differences in stroke (REGARDS) study. *Spatial and Spatio-temporal Epidemiology*, 40, 100473.

10. Schinasi, L. H., Kanungo, C., Christman, Z., Barber, S., **Tabb, L.**, & Headen, I. (2022). Associations Between Historical Redlining and Present-Day Heat Vulnerability Housing and Land Cover Characteristics in Philadelphia, PA. *Journal of Urban Health*, 1-12.
11. Mujahid, M. S., Gao, X., **Tabb, L. P.**, Morris, C., & Lewis, T. T. (2021). Historical redlining and cardiovascular health: The Multi-Ethnic Study of Atherosclerosis. *Proceedings of the National Academy of Sciences*, 118(51).
12. Alberto, C. K.** , Pintor, J. K., Martínez-Donate, A., **Tabb, L. P.**, Langellier, B., & Stimpson, J. P. (2021). Association of Maternal-Clinician Ethnic Concordance With Latinx Youth Receipt of Family-Centered Care. *JAMA Network Open*, 4(11), e2133857-e2133857.
13. Acharya, B.** & **Tabb, L. P.** (2021). Spatiotemporal Analysis of Overall Health in the United States Between 2010 and 2018. *Cureus*, 13(9).
14. Bilal, U., **Tabb, L. P.**, Barber, S., & Roux, A. V. D. (2021). Spatial Inequities in COVID-19 Testing, Positivity, Confirmed Cases and Mortality in 3 US Cities: an Ecological Study. *Annals of Internal Medicine*, M20-3936.
15. Reed, M.** , Siegler, A., **Tabb, L. P.**, Momplaisir, F., Krevitz, D., & Lankenau, S. (2021). Changes in overdose knowledge and attitudes in an incarcerated sample of people living with HIV. *International Journal of Prisoner Health*, Vol. 17 No. 4, pp. 560-573.
16. Reed, M. K.** , Roth, A. M., **Tabb, L. P.**, Groves, A. K., Lankenau, S. E. (2021). "I probably got a minute": Perceptions of fentanyl test strip use among people who use stimulants. *International Journal of Drug Policy*, 103147.
17. Quick, H., Song, G.** , & **Tabb, L. P.** (2021). Evaluating the informativeness of the Besag-York-Mollié CAR model. *Spatial and Spatio-temporal Epidemiology*, 37, 100420.
18. Corbin, T., **Tabb, L. P.**, Waite, D., Purtle, J., Harris, E., Gardner, J., ... & Rich, J. (2021). Post traumatic stress, depression, and sleep among young survivors of violence. *Journal of health care for the poor and underserved*, 32(3), 1339-1358.
19. Xie, S.** , Karlsson, H., Dalman, C., Widman, L., Rai, D., Gardner, R.M., Magnusson, C., Sandin, S., **Tabb, L. P.**, Newschaffer, C.J., & Lee, B.K. (2020). The Familial Risk of Autism Spectrum Disorder with and without Intellectual Disability. *Autism Research*, 13(12), 2242-2250.
20. Alberto, C. K.** , Pintor, J. K., Langellier, B., **Tabb, L. P.**, Martínez-Donate, A. P., Stimpson, J. P. (2020). Association of maternal characteristics with latino youth health insurance disparities in the United States: a generalized structural equation modeling approach. *BMC Public Health*, 20(1), 1-8.

21. Alberto, C. K.**, Pintor, J. K., Young, M. E., **Tabb, L. P.**, Martínez-Donate, A., Langellier, B. A., & Stimpson, J. P. (2020). Association of Maternal Citizenship and State-Level Immigrant Policies With Health Insurance Coverage Among US-Born Latino Youths. *JAMA network open*, 3(10), e2021876-e2021876. Chicago
22. Benn, E. K. T., **Tabb, L. P.**, Exum, P., Moore, R. H., Morales, K. H., Simpson, F. R., ... & Bellamy, S. L. (2020). Creating and sustaining effective pipeline initiatives to increase diversity in biostatistics: the ENAR Fostering Diversity in Biostatistics Workshop. *Journal of Statistics Education*, 28(3), 295-303.
23. Corbin, T. J., **Tabb, L. P.**, & Rich, J. A. (2020). Commentary on Facing Structural Racism in Emergency Medicine. *Academic Emergency Medicine*, 27(10), 1067-1069.
24. Tran, N. K., Goldstein, N. D., Purtle, J., Massey, P. M., Lankenau, S. E., Suder, J. S., **Tabb, L. P.** (2020). The heterogeneous effect of marijuana decriminalization policy on arrest rates in Philadelphia, Pennsylvania, 2009–2018. *Drug and Alcohol Dependence*, 108058.
25. Fry, D., Kioumourtzoglou, M. A., Treat, C. A., Burke, K. R., Evans, D., **Tabb, L. P.**, ... Lovasi, G. S. (2019). Development and validation of a method to quantify benefits of clean-air taxi legislation. *Journal of Exposure Science & Environmental Epidemiology*, 1-12.
26. Feito, Y., Burrows, E.**, **Tabb, L. P.**, Ciesielka, K. A.** (2020). Breaking the myths of competition: a cross-sectional analysis of injuries among CrossFit trained participants. *BMJ Open Sport & Exercise Medicine*, 6(1), e000750.
27. **Tabb, L. P.**, McClure, L. A., Ortiz, A.**, Melly, S., Jones, M. R., Kershaw, K. N., & Roux, A. V. D. (2020). Assessing the spatial heterogeneity in black-white differences in optimal cardiovascular health and the impact of individual-and neighborhood-level risk factors: The Multi-Ethnic Study of Atherosclerosis (MESA). *Spatial and Spatio-temporal Epidemiology*, 33, 100332.
28. **Tabb, L. P.**, Ortiz, A.**, Judd, S., Cushman, M., McClure, L. A. (2020). Exploring the spatial patterning in racial differences in cardiovascular health between blacks and whites across the United States: the REGARDS study. *Journal of the American Heart Association*, 9(9), e016556.
29. Lankenau, S. E., **Tabb, L. P.**, Kioumarsis, A., Ataiants, J., Iverson, E., & Wong, C. F. (2019). Density of medical marijuana dispensaries and current marijuana use among young adult marijuana users in Los Angeles. *Substance Use & Misuse*, 54(11), 1862-1874.
30. Feito, Y., Burrows, E. K.**, & **Tabb, L. P.** (2018). A 4-year analysis of the incidence of injuries among CrossFit-trained participants. *Orthopaedic Journal of Sports Medicine*, 6(10), 2325967118803100.

31. Mayne, S. L.** , Auchincloss, A. H., **Tabb, L. P.**, Stehr, M., Shikany, J. M., Schreiner, P. J., Widome, R., & Gordon-Larsen, P. (2017). Associations of Bar and Restaurant Smoking Bans with Smoking Behavior in the CARDIA Study: a 25-Year Study. *American Journal of Epidemiology*, 187(6), 1250-1258.
32. Goldstein, N. D., Tuttle, D., **Tabb, L. P.**, Paul, D., Eppes, S. L. (2017). Spatial and Environmental Correlates of Organism Colonization and Infection in the Neonatal Intensive Care Unit, *The Journal of Perinatology*, 38(5), 567.
33. **Tabb, L. P.**, Fillmore, C.** , Melly, S. (2018). Location, location, location: Assessing the spatial patterning between marijuana licenses, alcohol outlets, and neighborhood characteristics within Washington state, *Drug and Alcohol Dependence*, 185, 214-218.
34. **Tabb, L. P.**, McClure, L.A., Quick, H., Purtle, J., and Diez Roux, A. (2018). Assessing the spatial heterogeneity in overall health across the United States using spatial regression methods: The contribution of health factors and county-level demographics, *Health and Place*, 51, 68-77.
35. Widman, S. A., LeVasseur, M. T.** , **Tabb, L. P.**, Taylor, J. A. (2017). The Benefits of Data Linkage for Firefighter Injury Surveillance, *Injury Prevention*, injuryprev-2016.
36. LeVasseur, M. T.** , Goldstein, N. D., **Tabb, L. P.**, Olivieri-Mui, B. L., Welles, S. L. (2018). The Effect of PrEP on HIV Incidence Among Men Who Have Sex With Men in the Context of Condom Use, Treatment as Prevention, and Seroadaptive Practices, *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 77(1), 31-40.
37. Park, B. Y.** , Lee, B. K., Burstyn, I., **Tabb, L. P.**, Keelan, J. A., Whitehouse, A. J., ... , Newschaffer, C. J. (2017). Umbilical cord blood androgen levels and ASD-related phenotypes at 12 and 36 months in an enriched risk cohort study, *Molecular Autism*, 8(1), 3.
38. Goldstein, N., Newbern, E. C., **Tabb, L. P.**, Welles, S. L. (2017). Density of Day Cares in Relation to Reported Pertussis Incidence in Philadelphia, *Public Health*, 146, 126-133.
39. Baek, J., Hirsch, J.A., Moore, K., **Tabb, L. P.**, Barrientos-Gutierrez, Lisabeth, L.D., Diez Roux, A., Sanchez, B.N. (2017). Methods to study variation in the associations between food store availability and body mass index across distance, individuals and contexts in the Multi-Ethnic Study of Atherosclerosis (MESA). *Epidemiology*, 28(3), 403-411.
40. Mayne, S. L.** , Auchincloss, A. H., Moore, K. A., Michael, Y. L., **Tabb, L. P.**, Echeverria, S. E., Roux, A. V. D. (2017). Cross-sectional and longitudinal associations of neighbourhood social environment and smoking behaviour: the multiethnic study of atherosclerosis. *J Epidemiol Community Health*, 71(4), 396-403.

41. **Tabb, L. P.**, Ballester, L.** , Grubestic, T. H. (2016). The spatio-temporal relationship between alcohol outlets and violence before and after privatization: A natural experiment, Seattle, WA 2010-2013. *Spatial and Spatio-temporal Epidemiology*, 19, 115-124.
42. **Tabb, L. P.**, Tchetgen, E. J. T., Wellenius, G. A., Coull, B. A. (2016). Marginalized Zero-Altered Models for Longitudinal Count Data. *Statistics in Biosciences*, 8(2), 181-203.
43. Prodromo, J., Patel, N., Kumar, N., Denehy, K., **Tabb, L. P.**, Tom, J. (2016). Pitch Characteristics Before Ulnar Collateral Ligament Reconstruction in Major League Pitchers Compared With Age-Matched Controls. *Orthopedic Journal of Sports Medicine*, 4(6), 2325967116653946.
44. Goldstein, N. D.** , Burstyn, I., Newbern, E. C., **Tabb, L. P.**, Gutowski, J., Welles, S. L. (2016). Bayesian Correction of Misclassification of Pertussis in Vaccine Effectiveness Studies: How Much Does Underreporting Matter?. *American Journal of Epidemiology*, kwv273.
45. Rosso, A. L.** , **Tabb, L. P.**, Grubestic, T. H., Taylor, J. A., Michael, Y. L. (2014). Neighborhood Social Capital and Achieved Mobility of Older Adults. *Journal of Aging and Health*, 26(8), 1301-1319.
46. Bowleg, L., Neilands, T. B., **Tabb, L.P.**, Burkholder, G. J., Malebranche, D. J., Tschann, J. M. (2014). Neighborhood context and Black heterosexual men's sexual HIV risk behaviors. *AIDS and Behavior*, 18(11), 2207-2218.
47. Mhatre, S. D., Michelson, S. J., Gomes, J., **Tabb, L. P.**, Saunders, A. J., Marendia, D. R. (2014). Development and characterization of an aged onset model of Alzheimer's disease in *Drosophila melanogaster*. *Experimental Neurology*, 261, 772-781.
48. **Tabb, L. P.**, Zhao, W.** , Huang, J., Rosen, G. L. (2014). Characterizing the Empirical Distribution of Prokaryotic Genome n-mers in the Presence of Nullomers. *Journal of Computational Biology*, 21(10), 732-740.
49. Kumar, N. S., Chin, M., O'Neill, C., Jakoi, A. M., **Tabb, L.**, Wolf, M. (2014). On-field performance of National Football League players after return from concussion. *The American Journal of Sports Medicine*, 0363546514539449.
50. Jain, A., Spencer, D., Yang, W., Kelly, J. P., Newschaffer, C. J., Johnson, J., Marshall, J., Azocar, F., **Tabb, L. P.**, Dennen, T. (2014). Injuries among children with autism spectrum disorder. *Academic Pediatrics*. 14(4) : 390-397.
51. Khalsa, A. S., Toossi, N., **Tabb, L.P.**, Amin, N. H., Donohue, K. W., Cerynik, D. L. (2014). Distal tibia fractures: locked or non-locked plating? A systematic review of outcomes. *Acta Orthopaedica*, 85(3), 299-304.

52. Grubestic, T. H., Pridemore, W. A., Williams, D. A.** , **Philip-Tabb, L.** (2013). Alcohol outlet density and violence: the role of risky retailers and alcohol-related expenditures. *Alcohol and Alcoholism*, 48(5), 613-619.
53. Rosso, A. L.** , Grubestic, T. H., Auchincloss, A. H., **Tabb, L.P.**, Michael, Y. L. (2013). Neighborhood amenities and mobility in older adults. *American Journal of Epidemiology*, 178(5), 761-769.
54. Amin, N. H., Old, A. B., **Tabb, L.P.**, Garg, R., Toossi, N., Cerynik, D. L. (2013). Performance outcomes after repair of complete Achilles tendon ruptures in National Basketball Association players. *The American Journal of Sports Medicine*, 41(8), 1864-1868.
55. Rosso, A. L.** , Taylor, J. A., **Tabb, L.P.**, Michael, Y. L. (2013). Mobility, disability, and social engagement in older adults. *Journal of Aging and Health*, 25(4), 617-637.
56. Grubestic, T. H., Murray, A. T., Pridemore, W. A., **Tabb, L.P.**, Liu, Y., Wei, R. (2012). Alcohol beverage control, privatization and the geographic distribution of alcohol outlets. *BMC Public Health*, 12(1), 1015.
57. Ambroggio, L.** , Taylor, J. A., **Tabb, L.P.**, Newschaffer, C. J., Evans, A. A., Shah, S. S. (2012). Comparative effectiveness of empiric β -lactam monotherapy and β -lactam-macrolide combination therapy in children hospitalized with community-acquired pneumonia. *The Journal of Pediatrics*, 161(6), 1097-1103.
58. Ambroggio, L.** , **Tabb, L.P.**, O'Meara, T., Sheffler-Collins, S., McGowan, K. L., Shah, S. S. (2012). Influence of antibiotic susceptibility patterns on empiric antibiotic prescribing for children hospitalized with community-acquired pneumonia. *The Pediatric Infectious Disease Journal*, 31(4), 331-336.
59. Chakraborty R, Vepuri V, Mhatre SD, Paddock BE, Miller S, Michelson SJ, Delvadia R, Desai A, Vinojur M, Melicharek DJ, Utreja S, Khandelwal P, Ansaloni S, Goldstein LE, Moir RD, Lee JC, **Tabb, L.P.**, Saunders AJ, and Marena DR (2011). Characterization of a Drosophila Alzheimer's disease model: pharmacological rescue of cognitive defects. *PLoS One*, 6(6), e20799.
60. **Philip, L.P.** (2010). *Multilevel models for zero-inflated count data in environmental health and health disparities research*. Harvard University.

BOOK CHAPTERS

- Klassen, A. C., Curriero, F., **Tabb, L. P.**, Carroll-Scott, A. (2014). *Spatial Analysis of Communities. Methods for Community Public Health Research: Integrated and Engaged Approaches*, 19.

BOOK REVIEWS

Tabb, L. P. (2019). Bayesian regression modeling with INLA. Xiaofeng Wang, Yu R. Yue and Julian J. Faraway. Boca Raton: CRC Press. *Biometrics*, 75(3), 1042-1044.

REPORTS

Waxman, E., Butrica, B., Pancini, V., Echave, P., **Tabb, L. P.**, & Waidmann, T. A. (2023). *Retail Food Access and Obesity Prevalence*. Urban Institute.

Waidmann, T. A., Waxman, E., Pancini, V., Gupta, P., & **Tabb, L. P.** (2022). *Obesity across America: Geographic Variation in Disease Prevalence and Treatment Options*. Urban Institute.

Barber S, Headen I, Branch B, **Tabb, L. P.**, Yadeta K. (2020). *COVID-19 in Context: Racism, Segregation and Racial Inequities in Philadelphia: Drexel University Urban Health Collaborative*.

Baker, R., Beishline, R., Hanula, N., Hickok, M., Johnson, J., Kindt, G., Lanke-
nau, S., Massey, P., Reitz, G., Reynolds, L., Stuffick, A., **Tabb, L. P.**, Wallace,
T. (2018). *The changing landscape of marijuana in Pennsylvania: examining
access, use, and perceptions*.

Baker, R., Beishline, R., Carroll-Scott, A., Hanula, N., Hickok, M., Johnson,
J., Kindt, G., Lanke-
nau, S., Massey, P., Reynolds, L., Stuffick, A., **Tabb, L. P.**, Wallace, T. (2017). *Alcohol access and use among youth in Pennsylvania
prior to Act 39*.

INVITED RESEARCH PRESENTATIONS / INTERVIEWS

“Understanding the Geography of Racial Inequities in Cardiovascular Health - How Important are Neighborhoods?”, Emory University, Atlanta, GA (2023).

“The Geography of Structural Racism: From Operationalization to Measuring Spatial (and Spatio-Temporal) Heterogeneity: How Important Is Residential Segregation?”, Joint Statistical Meetings, Washington, DC (2022).

“Quantitative methods for assessing racial/ethnic inequities across the US using diverse cohort studies”, ENAR Spring Meetings. (Virtual, 2021)

“Assessing the cases and deaths attributed to COVID-19 and its impact on racial/ethnic inequities at the county level: Are we really all in this together?”, New York University, Department of Biostatistics, Biostatistics Seminar Series. (Virtual, 2020)

“Using Technology to Advance Your Research: Who You Are, What You Do, and Where You Live Matters”, Robert Wood Johnson Foundation, New Connections Symposium, New Orleans, LA (2019).

“Space + (Time) + Health: A Population Health Approach to Understanding the Impact of Health Factors and Demographics on Overall Health in the US”, Icahn School of Medicine at Mount Sinai, New York, NY (2018).

“There is a (time) and place for everything, including health: An assessment of the spatial heterogeneity in the overall health across the United States using spatial regression methods”, Harvard T.H. Chan School of Public Health, Boston, MA (2018).

“Public health ways in reconsidering alcohol outlets: the built environment as a potential driver of crime”, Drexel University, Pennoni Honors College, Philadelphia, PA (2017).

“The spatio-temporal relationship between alcohol outlets and violence, before and after privatization: a natural experiment, Seattle, WA 2010-2013”, Center for Clinical Epidemiology & Biostatistics, University of Pennsylvania, Philadelphia, PA (2015).

“Examining the spatio-temporal relationship between alcohol outlets and aggravated assaults in Seattle, WA 2010-2012”, Drexel University, Dornsife School of Public Health, Mini-Symposium: Spatial analysis of alcohol outlets and health-related behaviors, Philadelphia, PA (2013).

“Examining the spatial distribution of alcohol outlets before and after privatization in Seattle, WA 2010-2012”, Poster Presenter, The Robert Wood Johnson Foundation Annual Symposium, Princeton, NJ (2013).

“Examining Alcohol-Related Violence in Urban Environments Through a Public Health Lens”, Poster Presenter, Drexel University Convocation, Philadelphia, PA (2012).

INVITED SERVICE PRESENTATIONS / INTERVIEWS “Effectively Operationalizing Race and Structural Racism in Health Equity Research”, Short Course Instructor, Joint Statistical Meetings, Toronto, Canada (2023).

“The Importance of Leveraging Mentorship”, Invited Panelist, Diversity Mentoring Program, Joint Statistical Meetings, Toronto, Canada (2023).

“The Power of Representation: My Journey to the Field of Biostatistics (The Journey Continues. . .) - From Patsie to Annie”, Invited Presenter, Justice, Equity, Diversity, Inclusion Outreach Group Webinar, (Virtual, 2022).

“The Path, The Journey, and What I’ve Learned...”, Keynote Address, StatFest, (Virtual, 2020).

“What Does It Mean To Talk About Racism as a Public Health Crisis?”, Invited

Presenter, The Franklin Institute, Philadelphia, PA (Virtual, 2020).

“Biostatistics: Bio-What?!” , Invited Presenter, The College of Physicians of Philadelphia, Philadelphia, PA (2018).

“STEM is Everywhere” , Invited Presenter, School District of Philadelphia, Philadelphia, PA (2017).

“JSM Diversity Workshop, Careers in Statistics,” Invited Presenter, JSM, San Diego, CA (2012).

“Fostering Diversity in Biostatistics” Workshop, Invited Panelist, ENAR Spring Meetings, Miami, FL (2011).

“How to be Successful in STEM Fields as a Woman” , Invited Panelist, Drexel Graduate Women in Science & Engineering, Philadelphia, PA (2011).

“Changing the Face of the Scientific Enterprise - Broadening Participation” , Keynote Speaker, The Greater Philadelphia Region Louise Stokes Alliance for Minority Participation Networking and Mentoring Conference, Philadelphia, PA (2010).

“Fostering Diversity in Biostatistics” Workshop, Graduate Student Panelist, ENAR Spring Meetings, Arlington, VA and Tampa, FL, respectively (2006 and 2008).

“Making Connections” , Graduate Student Panelist, StatFest, Indianapolis, IN (2007).

TEACHING
EXPERIENCE

Department of Epidemiology and Biostatistics, Drexel University
Philadelphia, Pennsylvania

Instructor (courses listed in alphabetical order)

Advanced Statistical Computing: Spring 2010, '11, '12, '13, '16, '20, '21

Bayesian Data Analysis: Winter 2014, Spring 2015, '16, '17, '24

Biostatistics: Winter 2017, '18, '19

Linear Statistical Modeling: Fall 2022

Quantitative Methods in Health Disparities Research: Summer 2012, '13, Winter 2014

Survival Data Analysis: Fall 2010, '11, '12, '13, '15, '16; Winter 2015

Guest Lecturer (courses listed in alphabetical order)

Critical Reasoning: Fall 2016

Epidemics in Public Health and Literature: Fall 2017, '18

Epidemiology Ph.D. Seminar II: Winter 2011

Health Disparities: Spring 2010, '11

Department of Biostatistics, Harvard University

Boston, Massachusetts

Teaching Assistant

Principles in Biostatistics I and II: Summer 2007-2008
Analysis of Rates and Proportions: Spring 2008
Principles in Biostatistics: Fall 2006

Department of Biostatistics, Kitasato University

Tokyo, Japan

Visiting Teaching Assistant

Statistical Issues in Drug Development: Fall 2007

Katherine Gibbs School

Norristown, Pennsylvania

Instructor

College Mathematics: Winter, Spring 2005

Department of Mathematics, Drexel University

Philadelphia, Pennsylvania

Instructor

Calculus II: Summer 2004

Teaching Assistant

Introduction to Analysis I and II: Fall, Winter, Spring 2003-2005

OTHER
TEACHING
EXPERIENCE

Doctoral Thesis Committees (* indicates advisee)

Ruby Bayliss*, Ph.D.(c) Drexel University, Dornsife School of Public Health.
Dissertation: TBD. 2018 - present. (Advisor)

Yang Xu*, Ph.D.(c) Drexel University, Dornsife School of Public Health. Dis-
sertation: TBD. 2020 - present. (Advisor)

Guangzi Song* , Ph.D. Drexel University, Dornsife School of Public Health.
Dissertation: Estimation of the Informativeness of the Conditional Autoregressive
Model Framework with Applications. 2023. (Co-Advisor)

Shanika DeSilva , Ph.D. Drexel University, Dornsife School of Public Health.
Dissertation: Propensity Score Methods for Spatial, Temporal, and Spatiotem-
poral Data. 2023. (Committee Member)

David Keller , Ph.D. Drexel University, College of Arts and Sciences. Disserta-
tion: Predictors of Fish Occurrence and Scale Dependence in Wadeable Streams.
2020. (Committee Member)

Cinthya Alberto , Ph.D. Drexel University, Dornsife School of Public Health.
Dissertation: Health Care Access and Receipt of Family Centered Care Among
Latino Youth: The Roles Of Maternal Characteristics and State Immigrant Poli-
cies. 2020. (Committee Member)

Megan Reed, Ph.D. Drexel University, Dornsife School of Public Health. Disser-
tation: Addressing Overdose Risk among Recently Incarcerated People Living
with HIV/AIDS. 2020. (Committee Member)

Jacquelynn Y. Orr , Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Inpatient Tertiary-Care Utilization: A Mixed-Methods Study of Chronic Disease Comorbidities from 2010 to 2015. 2019. (Committee Member)

Kim Daniels, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Associations Between Built and Social Neighborhood Environment Exposures on Child Obesity/BMI Percentile. 2019. (Committee Member)

Li Xie, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Family Neurologic and Psychiatric History and the Risk of Autism Spectrum Disorder. 2019. (Committee Member)

Steve Woloszynek, MD(c)/Ph.D. Drexel University, Electrical and Computer Engineering. Dissertation: Extracting Meaningful Features from Noisy Microbiome Data. 2018. (Committee Member)

Anna Wallace, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Assisted Conception and Risk of Autism Spectrum Disorder in a Large Commercially Insured Population in the United States. 2017. (Committee Member)

Neal Goldstein, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: On Individual and Community-Level Determinants of Pertussis and Flu Incidence and Vaccination. 2015. (Committee Member)

Bo Park, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Fetal Testosterone and Early Autism Spectrum Disorder Related Neurodevelopment Outcomes. 2015. (Committee Member)

Kristen Johnson, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Epidemiology of HIV-1 and hepatitis virus co-infection: distribution and pathogenesis in an urban clinic population. 2012. (Committee Member)

Andi Rosso, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Mobility in Older Adults: Relation to Social and Physical Environment. 2012. (Committee Member)

Lilliam Ambroggio, Ph.D. Drexel University, Dornsife School of Public Health. Dissertation: Antibiotic Susceptibility Patterns Influence on Empiric Antibiotic Prescribing for Children Hospitalized with Community Acquired Pneumonia. 2011. (Committee Member)

Advisees - MS/MPH Programs

Kara Beck, MS. Drexel University, Dornsife School of Public Health.
Thesis: COVID-19: The Impact of Race & Ethnicity, Masks, and Votes. 2021.

Maya Stallings, MPH. Drexel University, Dornsife School of Public Health.
Integrated Learning Experience: COVID-19 and Gun Violence: The Impacts of Residential Segregation on the 2020 Rise in Shootings in Philadelphia. 2021.

Tianyu Sun, MS. Drexel University, Dornsife School of Public Health.
Thesis: Potential Benefits of Forest Cover: Mitigation of Heat-Related Mortality in Pennsylvania. 2020.

Kerri-Anne Ciesielka, MPH. Drexel University, Dornsife School of Public Health.
Integrated Learning Experience: A Comparison of Physical Activity Levels Between Collegiate and Master Athletes Utilizing Accelerometers. 2020.

Guangzi Song, MS. Drexel University, Dornsife School of Public Health.
Thesis: Neighborhood Racial Disparities in Presence of Dental Facilities in Southeastern Pennsylvania from 2000 to 2014. 2019.

Joshua Banks, MS. Drexel University, Dornsife School of Public Health.
Thesis: Quantifying Heart Health Metrics in the United Kingdom Biobank. 2018.

Velton W. Showell IV, MPH. Drexel University, Dornsife School of Public Health.
Community-Based Master's Project: Assessing the Impact of an IBD EPIC Smart Form on Compliance with Recommended IBD Best Practice. 2018.

Janel Leydon-Noe, MPH. Drexel University, Dornsife School of Public Health.
Community-Based Master's Project: Creating a Classification Tree to Predict Gestational Hypertension Based on Factors Identifiable in the First and Second Trimesters. 2018.

Carina Gerveshi, MS. Drexel University, Dornsife School of Public Health.
Thesis: Shared Genetic Architecture across Neurodevelopmental and Pediatric Psychiatric Disorders. 2017.

Leon Villavicencio, MPH. Drexel University, Dornsife School of Public Health.
Community-Based Master's Project: Risk Factors for Motor Vehicle Accident Injuries within the Philadelphia Fire Department. 2017.

Siyu Li, MPH. Drexel University, Dornsife School of Public Health.
Community-Based Master's Project: A Longitudinal Study of Adult Post-Traumatic Stress Disorder (PTSD) in Relationship with Direct and Indirect Community Exposure to Violence (CEV) and Immediate Intervention. 2017.

Molly Mahoney, MPH. Drexel University, Dornsife School of Public Health.

Community-Based Master's Project: Examining the Effects of Temperature and Drug Policy Enforcement Activity on Violence-Related Emergency Department Visits in Philadelphia. 2017.

Maryanne Miller, MS. Drexel University, Dornsife School of Public Health.
Thesis: Using Twitter to Explore HPV Vaccine Stance Patterns Across the United States. 2016.

Whitney York, MS. Drexel University, Dornsife School of Public Health.
Thesis: Developing Predictive Models for Low APGAR and Chorioamnionitis. 2016.

Lance Ballester, MS. Drexel University, School of Public Health.
Thesis: Initiative 1183: Does Privatization Affect the Relationship Between Alcohol Outlets and Violence? 2015.

Nobhule Mpofo, MS. Drexel University, School of Public Health.
Thesis: Devising a Bayesian Criteria for Monitoring Safety in Clinical Trials: Application to Osteoporosis Study. 2015.

Jessica Dow, MS. Drexel University, School of Public Health.
Thesis: Effect of Age of Initial Licensure on Crash Risk for New Jersey Novice Drivers. 2015.

Therese Sammarco, MS. Drexel University, School of Public Health.
Thesis: Counting Process Cox PH Model: A Novel Method for Analyzing Thrombosis-Free Access Survival in Hemodialysis Patients. 2015.

Lyudmila Kravets, MS. Drexel University, School of Public Health.
Thesis: Preoperative Delays for Breast Cancer Patients in the National Cancer Database. 2015.

Dominique Williams, MS West Chester University and Drexel University, Dornsife School of Public Health.
Thesis: Examining the Spatial Distribution of Alcohol Outlets in Philadelphia. 2012.

Mengdan Liu, MS. Drexel University, School of Public Health.
Thesis: A Negative Binomial Regression Model for Potential Prediction of Vasocclusive Crises in Childhood Sickle Cell Disease. 2011.

Jessica Posey, MPH. Drexel University, School of Public Health.
Community-Based Master's Project: Needs Assessment for zip codes or counties in Delaware in Examining the Correlation between Air Quality and Asthma Incidence. 2011.

Alison Toback, MPH. Drexel University, School of Public Health.
Community-Based Master's Project: Chemotherapy Toxicity Monitoring in Chil-

dren with Acute Lymphoblastic Leukemia and Acute Myeloid Leukemia. 2011.

GRANTS &
AWARDS

Role: Principle Investigator (PI) or Co-Principle Investigator (Co-PI)

National Science Foundation

Co-PI September 2022 - August 2027
Women in Natural Sciences: A Longitudinal Comparative Case Study of Black Women in STEMM (1995-2015), \$1,928,511 (15% effort).
2215207

National Heart, Lung, and Blood Institute

PI September 2017 - December 2022
Assessing the spatial heterogeneity in cardiovascular risk factors within and between blacks and whites, \$689,010.39 (75% effort).
K01 HL133515-01A1

Robert Wood Johnson Foundation - New Connections

PI April 2013 - March 2015
Examining the Spatial and Spatio-Temporal Relationship of Alcohol Outlets and Violence in Urban Settings Before and After Privatization, \$99,988.

Drexel University Career Development Award

PI June 2011 - May 2012
Mentoring Biostatisticians While Developing New Methods for Functional Neuroimaging, \$7,500.

Drexel University GRID

Co-PI January 2011 - December 2011
Improving the Epidemiology of Alcohol-Related Violence and Morbidity in the City of Philadelphia Using Geospatial Analysis (GRID: Grants for Research Impact at Drexel, a synergy grant), \$57,047 (10% effort).
Co-PI: Grubestic

Role: Co-Investigator (Co-I)

National Institute of Environmental Health Sciences

Co-I August 2021 - May 2026
Examining dietary modifiers of associations between air pollution and autism-related outcomes in two cohorts, \$2,548,149 (5% effort).
PI: Lyall; R01ES032469

National Heart, Lung, and Blood Institute

Co-I February 2017 - January 2022
Characterizing health impacts of built environment features using complex data,

\$584,452 (8% effort).
PI: Sanchez; HL131610-01A1

Annie E. Casey Foundation

Co-I March 2014 - January 2019
Expanding the Evidence of Healing Hurt People, \$250,659 (10% effort).
PI: Corbin; 213.0044

Sidney Kimmel Cancer Center

Co-I June 2016 - May 2017
Building Multi-Level Models to Investigate Factors Related to Prostate Cancer
Mortality, \$15,540 (4% effort).
PI: Keith

National Institute of Mental Health

Co-I September 2012 - August 2014
Social-Structural Stressors, Resilience, and Black Men's Sexual Risk Behaviors,
\$3,515,862 (10% effort).
PI: Bowleg; R01 HD074451-01

National Science Foundation

Co-I April 2012 - March 2014
Collaborative Research: Spatial Cluster Detection Based on Contiguity, \$179,543
(10% effort).
PI: Grubestic; SES-1154316

National Institute on Minority Health and Health Disparities

Co-I/Teaching Faculty September 2011 - August 2016
Opening the Doors for Diverse Populations to Health Disparities Research,
\$1,615,125 (3% effort).
PI: Bowleg; R25 MD006792-01

National Science Foundation

Co-I September 2011 - August 2014
Improving the Analysis of Microbial Mixtures through Sparse Reconstruction
and Statistical Inference, \$666,322 (6% effort).
PI: Foucart; MS-1120622

National Institute of Aging

Co-I July 2010 - January 2012
Neighborhood Design and Obesity in Older Women, \$443,392 (20% effort).
PI: Michael; R01 AG028254

National Institute of Mental Health

Co-I September 2010 - August 2012
Study of Health Outcomes in Children with Autism and Their Families, \$4,197,414
(5% effort).
PI: Deneen; HHS-N-271-2010-00033-C

National Institute of Child Health & Human Development

Co-I July 2010 - March 2012
Development and Validation of an Autism Case Confirmation Approach for Use
in the National Children's Study, \$1,119,650 (3.75% effort).
PI: Newschaffer and Caufield; HHS-N-267-2007-00048-C

**Faculty Research Development Grant, Department of Epidemiology
and Biostatistics, Drexel University**

Co-I August 2010 - July 2011
Philadelphia Neighborhoods, Maternal Obesity, and Birth Outcomes in a Hospital-
Based Population, \$5,000.
PI: N. Lee

HONORS &
ACHIEVEMENTS

Annie T. Randall Innovator Award (Inaugural Awardee)

*American Statistical Association
Biometrics & Mental Health Statistics Sections* 2021

**Ten-Day Seminar on the Epidemiology and Prevention of Cardiovas-
cular Disease and Stroke** (Fellow)

American Heart Association 2018

**Programs to Increase Diversity Among Individuals Engaged in Car-
diovascular Health-Related Research** (Awardee)

NIH/NHLBI 2016 - 2017

Golden Apple Teaching Award (Awardee)

Drexel University, Dornsife School of Public Health 2016

International Travel Award (Awardee)

Drexel University, Dornsife School of Public Health 2016, 2023

Al Herr Teaching Assistant Award (Awardee)

Drexel University, College of Arts and Sciences 2005

Frank H. M. Williams Prize in Mathematics (Awardee)

Drexel University, College of Arts and Sciences 2003

SERVICE

Professional

- ENAR/IBS (Eastern North American Region of the International Biometric Society)
 - 2024-26 RECOMM (Regional Committee), Committee Member
 - 2020-22 RAB (Regional Advisory Board), Committee Member
 - 2020-22 Fostering Diversity in Biostatistics Workshop, Co-Chair
 - 2018-19 Fostering Diversity in Biostatistics Workshop, Executive Plan-
ning Committee Member
 - 2016-2018 Student Paper Award, Reviewer

- 2009 ENAR Program Committee, Student Assistant
- NIH (National Institute of Health)
 - 2019 NIMHD (National Institute on Minority Health and Health Disparities) Study Section, Reviewer
 - 2016 BMRD (Biostatistical Methods and Research Design) Study Section, Ad-hoc Reviewer
- Editorial Board Member for *Spatial and Spatio-Temporal Epidemiology*: 2022 to present
- Reviewer for the following journals:
 - *NEJM Evidence*: 2022 to present
 - *AJPH*: 2018 to present
 - *Health and Place*: 2017 to present
 - *Statistics in Medicine*: 2016 to present
 - *APHA*: 2016 to present
 - *International Journal of Environmental Research and Public Health*: 2015 to present
 - *Journal of Urban Health* : 2014 to present
 - *Spatial and Spatio-Temporal Epidemiology*: 2013 to 2022
 - *Ethnicity and Health*: 2013 to present
 - *Statistical Modeling*: 2010 to present

Department of Epidemiology and Biostatistics, Dornsife School of Public Health, Drexel University

- Strategic Council Member, The Ubuntu Center on Racism, Global Movements & Population Health Equity, 2020 to present
- Diversity and Inclusion Committee: 2019 to present
- Graduate Biostatistics Program Committee: 2009 to present (Program Director: 2023 to present)
- Co-chair Faculty Search Committee (Dept. of Epidemiology and Biostatistics): 2015-2016, 2016-2017, 2017-2018
- Faculty Search Committee Member (Dept. of Environmental Health): 2015
- Faculty Senate Alternate: 2012-2017
- Department Representative, Executive Council of the Faculty: 2015-2017
- School of Public Health's Dean's Advisory Council: 2012
- Contributor, MPH New Student Newsletter: 2010
- Faculty Liaison, BS/MS Program, Department of Mathematics: 2009-2014

Department of Biostatistics, Harvard University

- Graduate Student Recruiter: 2007
- Student Diversity Committee: 2006 - 2009

TECHNICAL
SKILLS

Statistical Software: R, SAS, WingBUGS/OpenBUGS

Applications: T_EX (L^AT_EX), ArcGIS, common Windows database, spreadsheet and presentation software

Algorithms: Programming expertise in Markov Chain Monte Carlo simulations of Bayesian methods

Operating Systems: Microsoft Windows family, Apple OS X

PROFESSIONAL
MEMBERSHIPS

American Statistical Association

International Biometric Society/Eastern North American Region

American Heart Association

American Public Health Association