

August 2023

CURRICULUM VITAE

USAMA BILAL, M.D., M.P.H., Ph.D.

CONTACT INFORMATION

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EDUCATION

PhD/2017	Johns Hopkins Bloomberg School of Public Health, Baltimore, MD (Cardiovascular Epidemiology).
MPH/2012	University of Alcalá/National School of Public Health, Madrid, Spain
MD/2011	University of Oviedo, Asturias, Spain

OTHER SIGNIFICANT TRAINING

2022	Drexel Institute for Inclusive and Equitable Teaching, Drexel University
2018	Population and the Environment Short Course, Santa Fe Institute
2017	Complex Systems in Public Health, University of Michigan
2016	Complex Systems Summer School, Santa Fe Institute

PROFESSIONAL EXPERIENCE

2019-Present	Assistant Professor (tenure-track), Department of Epidemiology and Biostatistics & Urban Health Collaborative, Drexel Dornsife School of Public Health, Philadelphia, PA.
2018-2019	Assistant Research Professor, Department of Epidemiology and Biostatistics & Urban Health Collaborative, Drexel Dornsife School of Public Health, Philadelphia, PA.
2017-2018	Postdoctoral Research Fellow, Urban Health Collaborative, Drexel Dornsife School of Public Health, Philadelphia PA.
2014-2017	Research Assistant, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
2011-2013	Research Assistant, Social and Cardiovascular Epidemiology Research Group, University of Alcalá, and Department of Epidemiology, National Center for Cardiovascular Research, Madrid, Spain.

PROFESSIONAL ACTIVITIES*Society Membership*

2019-present	Population Association of America
2018-present	Interdisciplinary Association for Population Health Science
2013-present	Society for Epidemiologic Research
2011-present	Spanish Society of Public Health and Health Administration
2011-present	Spanish Society of Epidemiology

Society Activities

2021-present	Interdisciplinary Association for Population Health Science, <u>Communications Committee</u>
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Other Professional Activities

2022-present	Informed Population Health Opinions (INPHO) survey, <u>Panelist</u>
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EDITORIAL ACTIVITIES*Peer Review Activities. Grant Proposal or Fellowship Applicant Reviewer*Intramural (Drexel University)

2021	Office of Undergraduate Research, STAR Scholars Reviewer
2020	Urban Health Collaborative, Doctoral Fellowships Reviewer
2019-2020	Urban Health Collaborative, Dissertation Awards Reviewer
2019-2020	GATHER T37 Fellowship, Applicant Reviewer
2018	SALURBAL study, Ancillary Proposals Reviewer

Extramural

2023	National Institutes of Health (NIH), Community Partnerships to Advance Science for Society (ComPASS) Program: Community-Led, Health Equity Structural Intervention Initiative.
2020	Canada Foundation for Innovation, Exceptional Opportunities Fund
2019	Medical Research Council (MRC), New Investigator Research Grants

Peer Review Activities. Journal Editorial Boards

2021-present	Salud Colectiva, <u>Associate Editor</u>
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Peer Review Activities. Journal Reviewer

BMC Genomics, PeerJ, Preventive Medicine, Tobacco Control, Public Health Nutrition, Epidemiology, Gaceta Sanitaria, International Journal of Health Geographics, Circulation, Journal of Epidemiology and Community Health, Nutrients, Diabetes Care, PLOS ONE, Global Public Health, Journal of General Internal Medicine, Journal of Urban Health,

Landscape and Urban Planning, Revista Peruana de Medicina Experimental y Salud Pública, BMJ Open, Journal of the American Society of Nephrology, Journal of Healthcare for the Poor and Underserved, Journal of Health Economics, Public Health Reports, Cities and Health, Annals of Internal Medicine, American Journal of Epidemiology, Health and Place, Social Science and Medicine, Sleep, International Journal of Epidemiology, Science of the Total Environment, American Journal of Preventive Medicine, Preventing Chronic Disease, Salud Colectiva, Heart, American Journal of Public Health, Environmental Research, Nature Medicine, Global Health Journal, Health Affairs, BMJ, Science Advances, Journal of the American Heart Association, PNAS Nexus, Revista de Saúde Pública, eLife

Review of Abstracts for Scientific Meetings

2019-2023 Interdisciplinary Association for Population Health Sciences Annual Meeting
 2014-2023 Society for Epidemiologic Research Annual Meeting
 2013 Spanish Society of Epidemiology Annual Meeting

HONORS AND AWARDS

2023 Golden Apple Teaching Award, Drexel Dornsife School of Public Health
 2023 Society for Epidemiologic Research Brian MacMahon Early Career Epidemiologist Award
 2022 Mentor Recognition Award, Drexel Dornsife School of Public Health
 2020 Junior Faculty Research Award, Drexel Dornsife School of Public Health
 2018 Best Paper in Epidemiology (*2nd prize*), Spanish Society of Epidemiology 2018 Meeting
 2017 Delta Omega Honor Society (Alpha Chapter), Inductee
 2016 Dorothy and Arthur Samet Student Support Fund, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
 2016 Carol Buck Student Prize Paper Award (*Finalist*), Society for Epidemiologic Research and 2016 Epidemiology Congress of the Americas
 2015-2017 CLF-Lerner Fellow, Center for a Livable Future, Johns Hopkins Bloomberg School of Public Health
 2015 Charlotte Silverman Fund, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
 2014 Society for Epidemiologic Research top 3 presentation at the Fourth Annual SERdigital Student Novel Methods Web Conference
 2013-2015 La Caixa Postgraduate International Fellowship, Spain
 2013-2015 Enrique Najera award for young epidemiologists, Spanish Society for Epidemiology, Spain
 2010-2011 Ministry of Education Collaboration Scholarship, Spain
 2009-2011 CICERONE Undergraduate Research Scholarship, National Center for Cardiovascular Research, Madrid, Spain

PUBLICATIONS

Peer Reviewed Journal Articles (denotes co-first/co-senior authorship; underlined indicates mentored scholar at the time of first submission)*

1. Schnake-Mahl AS, Anfuso G, Goldstein ND, Purtle J, Eberth JM, Ortigoza A, **Bilal U**. Measuring Variation in Infant Mortality and Deaths of Despair by U.S. Congressional Districts in Pennsylvania: A Methodological Case Study. *American Journal of Epidemiology* 2023. *Accepted for Publication*
2. Schinasi L, Kondo MC, Edwards J, Clougherty JE, De Roos AJ, **Bilal U**. Does urban greenspace reduce mortality inequalities based on poverty-, race- or both, in Philadelphia, PA?. *Journal of Urban Health* 2023. *Accepted for Publication*
3. Martín-Turrero I, Sureda X, Escobar F, **Bilal U**, Berasaluce M, Valiente R. How Can We Measure Alcohol Outlet Density Around Schools? A Comparison Between Two Buffer-Based Methods. *Journal of Urban Health* 2023. *In Press*
4. Trotta A, **Bilal U**, Acharya B, Harrison Q, Kari M, Perner MS, Alazraqui M, Diez Roux AV. Spatial inequities in life expectancy in small areas of Buenos Aires, Argentina 2015- 2017. *Journal of Urban Health* 2023. *In Press*
5. D'Souza N, Carroll-Scott A, Headen I, **Bilal U**, Reis R, Quick H, Abraham M, Martinez-Donate A. Investigating the measurement properties of livability: a scoping review. *Cities and Health* 2023. *In Press*
6. Santa-Ramirez HA, Otalvaro-Castro GJ, Joost S, Melgar-Quinonez H, **Bilal U***, Stringhini S. Small area vulnerability, food insecurity and child malnutrition in Medellin, Colombia: results from a repeated cross-sectional study. *The Lancet Regional Health - The Americas* 2023;20:100476
7. Fontan M, Gullon P, **Bilal U**, Franco M. Social and ideological determinants of COVID-19 vaccination status in Spain *Public Health*. 2023;2019:139-145
8. Ramirez-Toscano Y, Perez-Ferrer C, **Bilal U**, Auchincloss A, Barrientos-Gutierrez T. Longitudinal association between density of retail food stores and body mass index in Mexican school children and adolescents. *International Journal of Obesity*. 2023 May;47(5):365-374
9. Cereijo L, Gullon P, del Cura I, Valades D, **Bilal U**, Franco M, Badland H. Exercise facility availability and incidence of type 2 diabetes and complications in Spain: A population-based retrospective cohort 2015–2018. *Health and Place* 2023 May;81:103027.
10. Diez J, Tablet G, Fontan-Vela M, Gonzalez-Rabago Y, Cereijo L, Sandin-Vazquez M, Rodriguez E, Franco M, Borrell C, **Bilal U**, Gullon P. Trends and determinants of social inequalities in cardiovascular risk factors in Spain: a mixed-methods study. *Gaceta Sanitaria*. 2023;37:102298.
11. de Lima Friche AA, Moreira Silva U, **Bilal U**, Sarmiento OL, de Salles Dias M, Prado-Galbarro FJ, Briceno-Leon R, Alazraqui M, Diez Roux AV, Caiaffa WT. Variation and predictors of youth and young adult homicides in cities of Latin America: the SALURBAL study. *The Lancet Regional Health - The Americas*. 2023;20:100476
12. Correa-Salazar C, Braverman-Bronstein A, **Bilal U**, Amon J, Page K, Groves AK, Vera A, Ballesteros L, Fernández L, Hessel P, Martínez-Donate AP. The impact of social violence on HIV risk for women in Colombia: A concurrent mixed methods study. *PLOS Global Health* 2023;3(2): e0001571.

13. D'Adamo A, Schnake-Mahl A, Mullachery PH, Lazo M, Diez Roux AV, **Bilal U**. Health Disparities in Past Influenza Pandemics: a scoping review of the literature. *Social Science and Medicine - Population Health* 2023 Mar;21:101314.
14. Braverman-Bronstein A, Ortigoza AF, Vidana-Perez D, Barrientos-Gutierrez T, Baldovino Chiquillo L, **Bilal U**, Friche AAG, Diez-Canseco F, Maslowski J, Diez Roux AV. Gender inequality, women's empowerment, and adolescent birth rates in 363 Latin American cities. *Social Science and Medicine*, 2023 Jan, 317: 115566
15. Anza-Ramirez C, Lazo M, Zafra-Tanaka JH, Avila-Palencia I, **Bilal U**, Hernandez-Vasquez A, Knoll C, Lopez-Olmedo N, Mazariegos M, Moore K, Rodriguez DA, Sarmiento OL, Stern D, Tumas N, Miranda JJ. The urban built environment and adult BMI, obesity, and diabetes in Latin American cities. *Nature Communications*. 2022 Dec 29;13(1):7977.
16. Mullachery PH, Quistberg DA, Lazo M, Indvik K, Perez-Ferrer C, Lopez-Olmedo N, Colchero MA, **Bilal U**. Evaluation of the national sobriety checkpoints program in Mexico: a difference-in-difference approach with variation in timing of program adoption. *Injury Epidemiology*, 2022, 9:32
17. Avila-Palencia I, Sanchez BN, Rodriguez DA, Perez-Ferrer C, Miranda JJ, Gouveia N, **Bilal U**, Useche AF, Wilches-Mogollon MA, Moore K, Sarmiento OL, Diez Roux AV. Health and environmental co-benefits of city urban form in Latin America: an ecological study. *Sustainability*, 2022, 14(22), 14715
18. Schnake-Mahl AS, O'Leary G, Mullachery PH, Kolker J, Skinner A, Diez Roux AV, Raifman J, **Bilal U**. Paid Sick Leave and COVID-19 Vaccination Coverage: A longitudinal analysis of 37 large US cities. *Health Affairs*, 2022 Nov;41(11):1565-1574
19. Schnake-Mahl AS, Mullachery PH, Li R, Purtle J, Diez Roux AV, **Bilal U**. Heterogeneity in Disparities in Life Expectancy Across US Metropolitan Areas. *Epidemiology*, 2022 Nov 1;33(6):890-899
20. Kondo MC, McIntire R, **Bilal U**, Schinasi L. Reduction in Socioeconomic Inequalities in Self-Reported Mental Health Conditions with Increasing Greenspace Exposure. *Health and Place* 2022 Nov;78:102908
21. Fernandez-Escobar C, Diez J, Martinez-Garcia A, **Bilal U**, O'Flaherty M, Franco M. Food availability and affordability in a Mediterranean urban context: Associations by store type and area-level socioeconomic status. *Public Health Nutrition*, 2022 Oct 24:1-21.
22. Schnake-Mahl AS, Jahn J, Purtle J, **Bilal U**. Considering multiple governance levels in epidemiologic analysis of public policies. *Social Science and Medicine* 2022 Oct: 115444
23. de Ramos IP, Auchincloss AH, **Bilal U**. Exploring inequalities in life expectancy and lifespan variation by race/ethnicity and urbanicity in the United States: 1990 to 2019. *Social Science and Medicine – Population Health* 2022 Sep 13;19:101230
24. **Bilal U, Mullachery PH, Schnake-Mahl AS, Rollins H, McCulley E, Kolker J, Barber S, Diez Roux AV**. Heterogeneity in Spatial Inequities in COVID-19 Vaccination Across 16 Large US Cities. *American Journal of Epidemiology*. 2022 Aug 22;191(9):1546-1556
25. Ramirez-Toscano Y, Perez-Ferrer C, **Bilal U**, Auchincloss AH, Barrientos-Gutierrez T. Socioeconomic deprivation and changes in the retail food environment of Mexico from 2010 to 2020. *Health and Place* 2022 Aug 3;77:102865
26. Mullachery PH, Li R, Melly S, Kolker J, Barber S, Diez Roux AV, **Bilal U**. Inequities in spatial accessibility to COVID-19 testing in 30 large US cities. *Social Science and Medicine*, 2022 Aug 27;310:115307.

27. Rodriguez Lopez S, Tumas N, **Bilal U**, Moore K, Arcaya B, Quick H, Quistberg DA, Acevedo GE, Diez Roux AV. Intraurban socioeconomic inequalities in life expectancy: a population-based cross-sectional analysis in the city of Córdoba, Argentina (2015-2018). *BMJ Open* 2022;12:e061277
28. Mullachery PH, Vela E, Cleries M, Comin-Colet J, Nasir K, Diez Roux AV, Cainzos-Achirica M, Mauri J, **Bilal U**. Inequalities by income in the prevalence of cardiovascular disease and its risk factors in the adult population of Catalonia. *Journal of the American Heart Association* 2022;11:e026587
29. Moran K, Mullachery PH, 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 Research and Public Health* 2022, 19(15), 9283
30. Alfaro T, Martinez-Folgar K, Vives A, **Bilal U**. Excess mortality during the COVID-19 pandemic in cities of Chile: Magnitude, inequalities, and urban determinants. *Journal of Urban Health* 2022 Jun;10:1-14.
31. Gutierrez-Leon E, Escamilla-Santiago RA, Martinez-Amezcuca P, **Bilal U**, Lazo M, Ogaz-Gonzalez R, Lopez-Cervantes M. Trends and effect of marginalization on Diabetes Mellitus-related Mortality in Mexico from 1990 to 2019. *Scientific Reports* 2022 Jun;12(1):9190
32. Schnake-Mahl AS, **Bilal U**. Disaggregating Disparities: a case study of heterogenous COVID-19 disparities across waves, geographies, social vulnerability, and political lean in Louisiana, USA. *Preventive Medicine Reports* 2022 Aug;28:101833.
33. Spoer BR, McCulley EM, Lampe TM, Yang Hsieh P, Chen A, Ofrane R, Rollins H, Thorpe LE, **Bilal U**, Gourevitch MN. Validation of a Neighborhood-level COVID Local Risk Index in 47 Large U.S. Cities. *Health and Place* 2022 July;76:102814
34. Rich J, Miech E, **Bilal U**, Corbin T. How Education and Racial Segregation Intersect in Neighborhoods with Persistently Low COVID-19 Vaccination Rates in Philadelphia. *BMC Public Health* 2022; 22:1044
35. de Ramos IP, Lazo M, Schnake-Mahl A, Li R, Martinez-Donate A, Diez Roux AV, **Bilal U**. The Disproportionate Impact of COVID-19 Outcomes Among the Hispanic Population of 27 Large US Cities: 2020-2021. *American Journal of Public Health* 2022 May 19:e1-e11.
36. McCulley EM, Mullachery PH, Ortigoza AF, Rodriguez DA, Diez Roux AV, **Bilal U**. Urban Scaling of Health Outcomes: a scoping review. *Journal of Urban Health* 2022 May 5:1-18
37. Satish P, Vela E, **Bilal U**, Cleries M, Kanaya AM, Kandula N, Virani SS, Islam N, Valero-Elizondo J, Yahya T, Comin-Colet J, Nasir K, Mauri J, Cainzos-Achirica M. Burden of cardiovascular risk factors and disease in five Asian groups in Catalonia: a disaggregated, population-based analysis of 121 000 first-generation Asian immigrants. *Eur J Prev Cardiol* 2022 May 6;29(6):916-924.
38. **Bilal U**, McCulley EM, Li R, Rollins H, Schnake-Mahl A, Mullachery PH, Vaidya V, Koh C, Dureja K, Sharaf A, Furukawa A, Juliano C, Barber S, Kolker J, Diez Roux AV. Tracking COVID-19 Inequities across jurisdictions represented in the Big Cities Health Coalition: The COVID-19 Health Inequities in BCHC Cities Dashboard. *American Journal of Public Health*. 2022 Apr 14:e1-e9

39. Mullachery PH, Lankenau S, Diez Roux AV, Li R, Henson RM, **Bilal U**. Urban scaling of opioid overdose deaths in the United States: a cross-sectional study in three periods between 2005 and 2017. *BMJ Open* 2022;12:e048831.
40. **Bilal U**, Jemmott JB, Schnake-Mahl A, Murphy K, Momplaisir F. Racial/ethnic and neighborhood social vulnerability disparities in COVID-19 testing positivity, hospitalization, and in-hospital mortality in a large hospital system in Pennsylvania: a prospective study of electronic health records. *The Lancet Regional Health - The Americas*. 2022;10:100220
41. Koh C, Kondo M, Rollins H, **Bilal U**. Socioeconomic Disparities in Hypertension by Levels of Green Space Availability: A Cross-Sectional Study in Philadelphia, PA. *International Journal of Environmental Research and Public Health*. 2022;19(4), 2037
42. Schnake-Mahl AS, O'Leary G, Mullachery PH, Vaidya V, Connor G, Rollins H, Kolker J, Diez Roux AV, **Bilal U**. The impact of keeping indoor dining closed on COVID-19 rates among large US cities: a quasi-experimental design. *Epidemiology* 2022 Mar 1;33(2):200-208. *Awarded SER's Lilienfeld Postdoctoral Prize Paper Award (to A. Schnake-Mahl)*.
43. Quistberg DA, Hessel P, Rodriguez DA, Sarmiento OL, **Bilal U**, Caiaffa WT, Miranda JJ, Pina MF, Hernandez-Vasquez AA, Diez Roux AV. Urban Landscape and Street Design Factors Associated with Road Traffic Mortality: A study of 328,408 road traffic deaths in 366 Latin American Cities: an Ecological Study. *The Lancet Planetary Health* 2022;6:e122-31
44. Cereijo L, Gullon P, del Cura I, Valades D, **Bilal U**, Badland H, Franco M. Exercise facilities and the prevalence of obesity and type 2 diabetes in the city of Madrid. *Diabetologia*. 2022 Jan;65(1):150-158
45. Armendariz M, Perez-Ferrer C, Basto-Abreu A, Lovasi G, **Bilal U**, Barrientos-Gutierrez T. Changes in the Retail Food Environment in Mexican Cities and their Association with Blood Pressure Outcomes. *International Journal of Environmental Research and Public Health*. 2022, 19(3), 1353
46. Vela E, Cleries M, **Bilal U**, Banach M, McEvoy JW, Mortensen MB, Blaha MJ, Nasir K, Comin-Colet J, Mauri J, Cainzos-Achirica M. Implications of the 2021 ESC Cardiovascular Risk Classification among 283,000 European Immigrants Living in a Low-Risk Region: A Population-Based Analysis in Catalonia. *Archives of Medical Science* 2021
47. **Bilal U**, de Castro CP, Alfaro T, Barrientos-Gutierrez T, Barreto ML, Leveau C, Martinez-Folgar K, Miranda JJ, Montes F, Mullachery PH, Pina MF, Rodriguez DA, dos Santos GF, Andrade RFS, Diez Roux AV. Scaling of Mortality in 742 Metropolitan Areas of the Americas. *Science Advances* 2021 Dec 10;7(50):eabl6325.
48. Langellier B, Stankov I, Hammond RA, **Bilal U**, Auchincloss AH, Barrientos T, de Oliveira Cardoso L, Diez Roux AV. Potential impacts of policies to reduce purchasing of ultra-processed foods in Mexico at different stages of the social transition: an agent-based modeling approach. *Public Health Nutrition*. 2021 Dec 13:1-9
49. Green-McKenzie J, Shofer FS, Momplaisir F, Kuter BJ, Kruse G, **Bilal U**, Behta M, O'Donnell J, Al-Ramahi N, Kasbekar N, Sullivan P, Okala P, Brenann PJ. Factors Associated With COVID-19 Vaccine Receipt by Health Care Personnel at a Major Academic Hospital

- During the First Months of Vaccine Availability. *JAMA Network Open*. 2021 Dec 1;4(12):e2136582.
50. Schnake-Mahl AS, Lazo M, Dureja K, Ehtesham N, **Bilal U**. Racial and Ethnic Inequities in Occupational Exposure Across and Between US cities. *Social Science and Medicine - Population Health* 2021;16:1009592
 51. Martin-Turrero I, Valiente R, Molina-de la Fuente I, **Bilal U**, Lazo M, Sureda X. Accessibility and availability of alcohol outlets around schools: an ecological study in the city of Madrid, Spain, according to socioeconomic area-level. *Environmental Research*, 2022 Mar;204(Pt C):112323
 52. Moran MR, **Bilal U***, Dronova I, Ju Y, Gouveia N, Caiaffa WT, de Lima Friche AA, Moore K, Miranda JJ, Rodriguez DA. The equigenic effect of greenness on the association between education with life expectancy and mortality in 28 large Latin American cities. *Health and Place* 2021 Nov;72:102703
 53. Sarmiento OL, Useche AF, Rodriguez DA, Dronova I, Guaje O, Montes F, Stankov I, Wilches MA, **Bilal U**, Wang X, Guzman LA, Peña F, Quistberg DA, Guerra-Gomez JA, Diez Roux AV. Built Environment Profiles for Latin American Urban Settings: The SALURBAL study. *PLoS ONE* 2021, 16(10):e0257528
 54. O’Leary G, Schnake-Mahl AS, Vaidya V, **Bilal U**, Kolker J. Indoor dining and in-person learning: a comparison of 30 US cities. *International Journal of Environmental Research and Public Health*. 2021, 18(20), 10967.
 55. Mullachery PH, **Bilal U**. Urban scaling of opioid analgesic sales in the United States. *PLoS One*. 2021 Oct 12;16(10):e0258526.
 56. Martinez-Folgar K, Alburez-Gutierrez D, Paniagua-Avila A, Ramirez-Zea M, **Bilal U**. Excess Mortality During the COVID-19 Pandemic in Guatemala. *American Journal of Public Health*. 2021 Sep 23;e1-e8. doi:
 57. Javed Z, Valero-Elizondo J, Dudum R, Khan SU, Dubey P, Hyder A, Xu J, **Bilal U**, Kash BA, Cainzos-Achirica M, Nasir K. Development and Validation of A Polysocial Risk Score for Atherosclerotic Cardiovascular Disease. *American Journal of Preventive Cardiology*. 2021 Aug 30;8:100251
 58. Kephart JL, Delclos-Alio X, Sarmiento OL, Barrientos-Gutierrez T, Ramirez-Zea M, Quistberg DA, Rodriguez DA, **Bilal U***, Diez Roux AV. The impact of population mobility on COVID-19 incidence in 314 Latin American cities: a longitudinal ecological study. *The Lancet Digital Health*. 2021 Aug 26:S2589-7500(21)00174-6.
 59. Rodriguez S, **Bilal U**, Ortigoza A, Diez Roux AV. Educational inequalities, urbanicity and levels of non-communicable diseases risk factors: Evaluating trends in Argentina (2005-2013). *BMC Public Health*. 2021 Aug 20;21(1):1572.
 60. Mullachery PH, Rodriguez DA, Miranda JJ, Lopez-Olmedo N, Martinez-Folgar K, Barreto ML, Diez Roux AV, **Bilal U**. Mortality amenable to healthcare in Latin American cities: a cross-sectional study examining between-country variation in amenable mortality and the role of urban metrics. *International Journal of Epidemiology* 2021 Aug 2:dyab137.

61. Tumas N, Rodriguez S, **Bilal U**, Ortigoza A, Diez Roux AV. Urban social determinants of non-communicable diseases risk factors in Argentina. *Health and Place* 2021 Jun 29:102611.
62. Glodeanu A, Gullón P, **Bilal U**. Social Inequalities in Mobility During and Following the COVID-19 associated lockdown of the Madrid Metropolitan Area in Spain. *Health and Place* 2021 Jul;70:102580.
63. **Bilal U**, Gullón P, Padilla-Bernáldez J. [Epidemiologic evidence on the role of hospitality venues in the transmission of COVID-19: a rapid review of the literature]. *Gaceta Sanitaria* 2021 Apr 8:S0213-9111(21)00075-3
64. Calderón-Aynosa R, **Bilal U**, Kaufman JS. Variation in non-external and external causes of death in Peru in relation to the COVID-19 Lockdown. *Yale Journal of Biology and Medicine* 2021 Mar 31;94(1):23-40.
65. **Bilal U**, Tabb LP, Barber S, Diez Roux AV. Spatial Inequities in COVID-19 Testing, Positivity, Confirmed Cases and Mortality in 3 US Cities: an Ecological Study. *Annals of Internal Medicine* 2021 Jul;174(7):936-944.
66. Porta M, Pumarega J, Henriquez-Hernandez LA, Gasull M, Bartoll X, Arrebola JP, Morales E, Ibarluzea J, Algucil J, **Bilal U**, Luzardo OP. Reductions in blood concentrations of persistent organic pollutants in the general population of Barcelona from 2006 to 2016. *Science of the Total Environment* 2021, 777:146013
67. **Bilal U**, Alfaro A, Vives A. COVID-19 and the worsening of health inequities in Santiago, Chile. *International Journal of Epidemiology* 2021 Jul 9;50(3):1038-1040
68. **Bilal U**, Hessel P, Perez-Ferrer C, Michael YL, Alfaro T, Tenorio-Mucha J, de Friche AAL, Pina MF, Vives A, Quick H, Alazraqui M, Rodriguez DA, Miranda JJ, Diez-Roux AV, and the SALURBAL group. Life expectancy and mortality in 363 cities of Latin America. *Nature Medicine* 2021 Mar;27(3):463-470
69. Kephart JL, Avila-Palencia I, **Bilal U**, Gouveia N, Caiaffa WT, Diez Roux AV. COVID-19, ambient air pollution, and environmental health inequities in Latin American cities. *Journal of Urban Health* 2021 Jun;98(3):428-432.
70. Sadler RC, **Bilal U**, Furr-Holden CD. Linking Historical Discriminatory Housing Patterns to the Contemporary Food Environment in Baltimore. *Spatial and Spatio-temporal Epidemiology* 2021 Feb;36:100387
71. Abraham A, Gille D, Puhan MA, ter Riet G, von Wyl V, for the **International Consortium on Teaching Epidemiology [incl. Bilal U]**. Defining Core Competencies for Epidemiologists in Academic Settings to Tackle Tomorrow's Health Research Challenges: A Structured, Multi-National Effort: International Consortium on Teaching Epidemiology. *American Journal of Epidemiology*, 2021 Feb 1;190(3):343-352.
72. Gullon P, **Bilal U**, Hirsch JA, Rundle A, Judd S, Safford M, Lovasi GS. Does a physical activity supportive environment ameliorate or exacerbate socioeconomic inequities in incident coronary heart disease?. *Journal of Epidemiology and Community Health*. 2020 Dec 14;jech-2020-215239

73. Trias-Llimos S, Riffe T, **Bilal U**. Monitoring life expectancy levels during the COVID-19 pandemic: Example of the unequal impact of the first wave on Spanish regions. *PLoS One*. 2020 Nov 5;15(11):e0241952.
74. Perez-Ferrer C, Auchincloss AH, Barrientos-Gutierrez T, Colchero A, Cardoso L, Menezes M, **Bilal U**. Longitudinal Changes in the Retail Food Environment in Mexico and their Association with Diabetes. *Health and Place* 2020, 66, 102461
75. Martinez-Garcia A, Diez J, Fernandez-Escobar C, Trescastro-Lopez EM, Pereyra-Zamora P, Ariza C, **Bilal U**, Franco M. Adaptation and evaluation of the Nutrition Environment Measures Survey in stores to assess Mediterranean food environments (NEMS-S-MED). *International Journal of Environmental Research and Public Health* 2020, 17(19), 7031
76. Lazo M, **Bilal U**, Mitchell MC, Potter J, Hernaez R. Clark JM. Interaction between alcohol consumption and PNPLA3 variant in the prevalence of hepatic steatosis in the U.S. Population. *Clinical Gastroenterology and Hepatology* 2020 Aug 31:S1542-3565(20)31213-1.
77. Trias-Llimos S, **Bilal U**. Impact of the COVID-19 pandemic on life expectancy in Madrid (Spain). *Journal of Public Health*, 2020;42(3):635-636.
78. Gullon P, Diez J, Cainzos-Achirica M, Franco M, **Bilal U**. Social Inequities in Cardiovascular Risk Factors in women and men by Autonomous Regions in Spain. *Gaceta Sanitaria* 2020 Jul 13:S0213-9111(20)30117-5.
79. Martinez-Amezcuca P, Haque W, Khera R, Kanaya AM, Saptar N, Kandula NH, Jose PO, Narayan V, Agyemang C, Misra A, Jenum AK, **Bilal U**, Nasir K, Cainzos-Achirica M. The Upcoming Epidemic of Heart Failure in South Asia. *Circulation: Heart Failure* 2020 Oct;13(10):e007218
80. **Bilal U**, Franco M, Lau B, Celentano D, Glass T. Measuring Neighborhood Social and Economic Change for Urban Health Studies. *Urban Studies* 2020; 57(6), 1301–1319
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2. Lazo M, Martinez-Folgar K, **Bilal U**. Racial/ethnic disparities in hepatocellular carcinoma: the role of neighborhood socioeconomic deprivation. *Cancer Epidemiology, Biomarkers & Prevention*. 2022 *In Press*
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9. **Bilal U**, Gullon P. [Book Review: A quien vamos a dejar morir?]. *Gaceta Sanitaria*, 2021 May-Jun;35(3):307.
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Book Chapters

1. **Bilal U**. Health inequities in Latin American cities: A Framework and Two Case Studies to Understand the Impact of Inequality in Urban Areas of Latin America and the Caribbean. In: Libertun de Duren, NR (eds.) *Inclusive Cities: Healthy Cities for All*. Washington DC: InterAmerican Development Bank; 2022.
2. **Bilal U**. Urbanismo o Barbarie [Urbanism or Barbarism]. In: Lopez Ruiz V, Padilla Bernaldez J (eds.) *Salubrismo o Barbarie [Public Health or Barbarism]*. Madrid: Atrapasueños Editorial; 2017.
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4. Lazo M, **Bilal U**. Obesity: Epidemiology of. In: Caballero, B., Finglas, P., and Toldrá, F. (eds.) *The Encyclopedia of Food and Health* vol. 4, pp. 139-144 (2016). Oxford: Academic Press.
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6. **Bilal U**, Belza MJ, Bolumar F. [Introduction to Epidemiology and its use in Health Administration]. In: [Master in Health Administration. Module 3: Public Health and Clinical Epidemiology]. Madrid: National University of Distance Education; 2012.

Statistical Software

1. GGTAXONOMY: **Stata** module to identify the most suitable GG family model. Statistical Software Components S458058, Boston College Department of Economics, revised 16 Sep 2017: <https://ideas.repec.org/c/boc/bocode/s458058.html> (Adapted from GGTAX)
2. STCRMIX: **Stata** module to estimate mixtures of generalized gamma distributions for competing risks analyses. Statistical Software Components S458519, Boston College Department of Economics: <https://ideas.repec.org/c/boc/bocode/s458519.html>

Briefs and other outreach material

1. Diez Roux AV, **Bilal U**, Kephart JL, Barrientos-Gutierrez T, Caiaffa W, Diez Canseco F, Rodriguez D, Sarmiento OL, Slesinski C, Vives Vergara A. COVID-19 and Urban Health in Latin America and the Caribbean. SALURBAL Special Data Brief No. 1. June 2021.
2. Lazo M, **Bilal U**, Correa C, Furukawa A, Martinez-Donate A, Zumaeta-Castillo C. Impact of COVID-19 on Latino Communities in Philadelphia. Drexel University Urban Health Collaborative; June 2021.
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Op-eds and other pieces in the general media

1. **Bilal U**. [The Pandemic of Inequality]. Fundacion QUAES 2021. <https://www.fundacionquaes.org/retos-covid-19/pandemia-desigualdad/>

2. Schnake-Mahl A, **Bilal U**. Pump the brakes on reopening: COVID is spreading too fast. NY Daily News 2021. <https://www.nydailynews.com/opinion/ny-oped-pump-the-brakes-on-reopening-20210401-ijmeiqmfzet3b3blrjd2du7ay-story.html>
3. **Bilal U**, Lazo M, Franco M. [Leganes, Iztapalapa and the Bronx: coronavirus and inequalities in the global city]. El PAIS 2020. <https://elpais.com/ciencia/2020-05-16/leganes-iztapalapa-y-el-bronx-coronavirus-y-desigualdad-en-la-ciudad-global.html>
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5. Padilla J, **Bilal U**. [Should we restrict healthcare coverage to people with unhealthy behaviors?]. El Diario 2016. http://www.eldiario.es/tribunaabierta/Restringir-sanidad-publica-cuida_6_556154408.html
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CURRICULUM VITAE

USAMA BILAL, M.D., M.P.H., Ph.D.

PART II

MENTORING

Faculty mentees

2022-present Alina Schnake-Mahl, ScD, Assistant Professor (Drexel University).
Program: K01 from NIAID (co-primary mentor)

Postdoctoral Fellows

2019-2022 Pricila Mullachery, PhD. Current position: Assistant Professor (Temple University)

2020-2022 Alina Schnake-Mahl, ScD. Current position: Assistant Professor (Drexel University).
Awarded SER's Lilienfeld Postdoctoral Prize Paper Award

2019-2022 Josiah Kephart, PhD. Current position: Assistant Professor (Drexel University)

2022 Ignacio Gonzalez-Salgado, PhD. Current position: Postdoctoral Fellow (University of Seville)

Advisees (Doctoral)

2017-2020 Julia Diez. Program: Doctoral Program in Epidemiology and Public Health, Universidad de Alcala, Madrid, Spain.
Thesis title: Mediterranean Food Environments: Monitoring and Benchmarking Inequalities in Retail Food Access.
Current position: Postdoctoral Fellow (Universidad de Alcala).
Awarded the Alicia Llacer award for young epidemiologists at the 2018 Spanish Society of Epidemiology Meeting in Lisbon, Portugal.
Awarded 2nd place in the science dissemination award from the Universidad de Alcala, Spain. Awarded Best Doctoral Thesis on Healthy Eating by the City Government of Madrid, Spain.

2019-current Kevin Martinez-Folgar, MD. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
Thesis title: Urban determinants and disparities in liver disease mortality

2020-current Irene Suarez Antuña, MS. Program: PhD in Biomedicine, Facultad de Medicina, Universidad de Oviedo, Spain.
Thesis title: Impact of Public Health Measures on Cardiovascular Risk Factor Prevalence and Control in Asturias (Spain).

2021-current Edwin McCulley, MS. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.

Thesis title: TBD

Awarded Teaching Assistant Excellence Award, Mentor Recognition Award, and the Common Good Award, all from Drexel University.

2022-current Ana Lucia Peralta, MD. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.

Thesis title: TBD

2022-current Shreya Patel, MD. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.

Thesis title: TBD

Advisees (Master)

2020-2021 Celina Koh. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University. Current Position: Analyst (NJ State Department of Health). *Awarded Best Master's Project Award in the Department of Epidemiology and Biostatistics, Drexel Dornsife School of Public Health.*

2020-2021 Alyssa Furukawa. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University. Current Position: Data Analyst (Johns Hopkins University).

2020-2022 Asma Sharaf. Program: MS in Epidemiology, Dornsife School of Public Health, Drexel University.

2021-2022 Zachary Hathaway. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-2023 Vineeth Nagubandi. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-2023 Carly Cherwony. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-2023 Aldona DiSandro. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-2023 Ahmed Khalifa. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

2021-2023 Victoria Alpaugh. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

2021-current Jacob Stass. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-current Marissa DiPativo. Program: MPH in Global Health, Dornsife School of Public Health, Drexel University.

2021-current Christine Delfino. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

2022-current Priyani Sharma. Program: BS/MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

2022-current Sarah Wetzel. Program: BS/MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

2022-current Vahan Boyajyan. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

- 2022-current Delian Bonilla Aquino. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2023-current Melanie Stratton. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

Doctoral Thesis Advisory Committee Member

- 2017-2021 Roberto Valiente, MS. Program: Doctoral Program in Geographic Information Technologies, Universidad de Alcalá, Spain. Current Position: Postdoctoral Fellow at the University of Edinburgh, UK.
- 2019-2021 Yenisei Ramírez Toscano. Program: Doctoral Program in Population Nutrition, Instituto Nacional de Salud Pública, México. Current Position: Researcher at the Instituto Nacional de Salud Pública, Mexico.
- 2019-2022 Ariela Braverman-Bronstein, MD. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University. Current Position: Postdoctoral Fellow at Drexel University, PA.
- 2020-2022 Dustin Fry, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2020-2022 Nishita D'Souza, MPH. Program: PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.
- 2020-2022 Catalina Correa. Program: PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.
- 2021-2022 Guangzi Song, MS. Program: PhD in Biostatistics, Dornsife School of Public Health, Drexel University.
- 2021-2023 Rosie Mae Henson, Program: Doctoral Program in Health Management and Policy, Drexel University.
- 2021-current Bricia Trejo, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2021-current Zachary Fufeld, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2021-current Hugo Santa, MPH. Program: PhD in Global Health, Swiss School of Public Health (SSPH+), Geneva, Switzerland.
- 2022-current Lizbeth Gomez, MPH. Program: PhD in Environmental Health, Dornsife School of Public Health, Drexel University.

Doctoral Preliminary Oral Exam Member

- 2019 Ariela Braverman-Bronstein, MD. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2020 Dustin Fry, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2020 Nishita D'Souza, MPH. Program: PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.
- 2020 Catalina Correa. Program: PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.

- 2020 Herney Rengifo. Program: Doctoral Program in Epidemiology, Instituto Nacional de Salud Publica, México.
- 2022 Bricia Trejo, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2022 Zachary Fوسفeld, MPH. Program: PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
- 2022 Guangzi Song, MS. Program: PhD in Biostatistics, Dornsife School of Public Health, Drexel University.

Master Research Advisor/Preceptor

- 2019-2020 Edwin McCulley. Program: MS in Epidemiology, Dornsife School of Public Health, Drexel University, Philadelphia PA. Current position: PhD Student (Drexel University).
- 2019-2020 Ran Li. Program: MS in Biostatistics, Dornsife School of Public Health, Drexel University, Philadelphia PA. Current Position: Data Analyst (Drexel University)
- 2020-2021 Celina Koh. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University. Current Position: Analyst (NJ State Department of Health). *Awarded Best Master's Project Award in the Department of Epidemiology and Biostatistics, Drexel Dornsife School of Public Health.*
- 2020-2021 Alyssa Furukawa. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University. Current Position: Data Analyst (Johns Hopkins University).
- 2021-2022 Ciara O'Sullivan. Program: MPH in Epidemiology, Dornsife School of Public Health, Drexel University, Philadelphia PA. Current Position: Global Data Manager (Janssen). *Awarded Best Master's Project Award in the Department of Epidemiology and Biostatistics, Drexel Dornsife School of Public Health.*
- 2021-2022 Kristina Dureja. Program: MS in Biostatistics, Dornsife School of Public Health, Drexel University, Philadelphia PA. Current Position: Data Analyst (IBX).
- 2021-2022 Isabel de Ramos. Program: MS in Epidemiology, Dornsife School of Public Health, Drexel University, Philadelphia PA. Current Position: Full-Time Research Assistant (Drexel)
- 2021-2022 John Kundrick, MD. Program: MD/MPH in Health Management and Policy, Dornsife School of Public Health, Drexel University, Philadelphia PA.
- 2021-2023 Gianni Anfuso. Program: MS in Biostatistics, Dornsife School of Public Health, Drexel University.

Master's Research Assistants or Research Fellows

- 2018-2019 Heather Rollins. Program: MS in Biostatistics, Dornsife School of Public Health, Drexel University.

2019-2020	Edwin McCulley. <u>Program</u> : MS in Epidemiology, Dornsife School of Public Health, Drexel University.
2019-2020	Ran Li. <u>Program</u> : MS in Biostatistics, Dornsife School of Public Health, Drexel University.
2020-2021	Celina Koh. <u>Program</u> : MPH in Epidemiology, Dornsife School of Public Health, Drexel University
2020-2021	Alyssa Furukawa. <u>Program</u> : MPH in Epidemiology, Dornsife School of Public Health, Drexel University.
2021-2022	Isabel de Ramos. <u>Program</u> : MS in Epidemiology, Dornsife School of Public Health, Drexel University.
2021-2022	Asma Sharaf. <u>Program</u> : MS in Epidemiology, Dornsife School of Public Health, Drexel University.
2021-2022	Kristina Dureja. <u>Program</u> : MS in Biostatistics, Dornsife School of Public Health, Drexel University.
2021-2022	Ciara O’Sullivan. <u>Program</u> : MPH in Epidemiology, Dornsife School of Public Health, Drexel University, Philadelphia PA
2021-current	Gianni Anfuso. <u>Program</u> : MS in Biostatistics, Dornsife School of Public Health, Drexel University.
2022	Inaya Wahid. <u>Program</u> : MPH in Epidemiology, Dornsife School of Public Health, Drexel University.

Thesis Reader

2019	Virna Almeida, MD. <u>Program</u> : Masters in Epidemiology, Health Management and Policy. Universidad de Lanus, Argentina.
2019	Monica Serena Perner, MD. <u>Program</u> : PhD in Collective Health. Universidad de Lanus, Argentina.
2020	Maija Toivakka, MS. <u>Program</u> : PhD in Geographical and Historical Studies. University of East Finland, Finland
2020	Dustin Fry, MPH. <u>Program</u> : PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
2020	Nishita D’Souza, MPH. <u>Program</u> : PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.
2020	Catalina Correa. <u>Program</u> : PhD in Community Health and Prevention, Dornsife School of Public Health, Drexel University.
2021	Ignacio de Loyola, MA. <u>Program</u> : PhD in Sociology. Universidad de Salamanca, Spain.
2021	Anne Gine March, MA. <u>Program</u> : PhD in Public Health. Universidad del País Vasco / Euskal Herriko Unibertsitatea, Spain & Université de Bordeaux, France
2022	Ariela Braverman-Bronstein, MD. <u>Program</u> : PhD in Epidemiology, Dornsife School of Public Health, Drexel University.
2022	Herney Rengifo, MS. <u>Program</u> : Doctoral Program in Epidemiology, Instituto Nacional de Salud Publica, México.
2022	Guangzi Song, MS. <u>Program</u> : PhD in Biostatistics, Dornsife School of Public Health, Drexel University.

Rotation Students

- 2019-2020 Toni Jenkins, BS. Program: Masters of Science in Interdisciplinary Health Sciences Program, Drexel University.
- 2020 Elena Plans, MD MPH. Program: Residency in Preventive Medicine and Public Health, Hospital Universitario Gregorio Marañón, Spain.

Undergraduate Research mentees

- 2020-2022 Angela D'Adamo (Honor's Thesis). Program: Bachelor of Science in Public Health, Rutgers University–New Brunswick.
- 2020-2022 Andrea Eleazar (STAR Scholar). Program: Bachelor of Science in Public Health, Drexel University.
- 2020-2022 Nahian Ehtesham. Program: Bachelor of Science in Public Health, Drexel University.
- 2021-2022 Kara Moran (STAR Scholar). Program: Bachelor of Science in Health Sciences, Drexel University.

Other mentored fellows

- 2019-current Rosie Mae Henson, MPH (T37 GATHER Fellow). Program: Doctoral Program in Health Management and Policy, Drexel University.
- 2020-current Fadia Namous (DUCOM Scholars Program, Public Health Track). Program: Medical Doctor program, Drexel University

TEACHING*Classroom Instruction (Instructor or Course Director)*

University of Alcalá, Madrid, Spain

2013 Epidemiology (6 ECTS credits)

Drexel University, Philadelphia, PA

2021, 2023 Advanced Topics in Epidemiology: History, Theory and Biases (3 credits)

2022 Data Science Using R (3 credits)

Short Courses (Instructor or Course Director)

National School of Public Health, Madrid, Spain

2013 Social Epidemiology (20 hours)

2016 Social Epidemiology (20 hours)

Universidad Internacional Menéndez Pelayo / Escuela de Salud Pública de Menorca, Spain

2017 Urban Health Research (15 hours)

Drexel University, Philadelphia, PA
 2018-2022 Multilevel Analysis for Urban Health Research (17.5 hours)
 2019-2020 Data Visualization in R for Urban Health (17.5 hours)
 2019 Introduction to Multilevel Analysis for SALURBAL Data (15 hours)

Universidad Nacional de Lanús / Instituto de Salud Colectiva, Lanús, Argentina
 2019 Introduction to Multilevel Analysis (32 hours)

Guest Lecturing

University of Alcalá, Madrid, Spain
 2011, 2012 Epidemiology

University of Oviedo, Asturias, Spain
 2012, Introduction to Cardiovascular Epidemiology
 2015-2021

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
 2017 Social Epidemiology (summer institute)
 2017-2019 Epidemiology of Diabetes and Obesity
 2019 The Obesity Epidemic Problem-Solving Seminar

University of Antwerp, Antwerp, Belgium
 2019 Methods in Social Epidemiology

Drexel University, Philadelphia, PA
 2018 Built Environment and Health
 2019-2020 Introduction to Urban Health
 2019 Research Skills in Biostatistics
 2019, 2021 Social Epidemiology
 2020-2022 Introduction to Global Health
 2020-2021 Interprofessional Collaboration for Urban Health
 2021 Public Health Foundations and Systems I

Harvard University, Cambridge, MA
 2020-2021 Public health in an era of epidemics: from the camp to the building

University of North Carolina-Chapel Hill, Chapel Hill, NC
 2021 From Data to Action

McGill University, Montreal, QC
 2022 Population Health and Epidemiology

University of Pennsylvania, Philadelphia, PA
 2022 Parallel Plagues

Other Significant Teaching (Teaching Assistant, Laboratory Instructor)

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD	
2014-2016	<u>Tutor</u> for 15 students in Principles of Epidemiology, Epidemiologic Methods I, II and III, and Statistical Methods in Public Health I, II and III.
2014-2016	Social Epidemiology (summer institute), <u>Teaching Assistant</u> .
2015	Foundations of Social Epidemiology, <u>Teaching Assistant</u> .
2015	Methodologic Challenges in Epidemiologic Research, <u>Teaching Assistant</u> .
2015	Methods for Clinical and Translational Research Workshop, <u>Teaching Assistant</u> .
2015	Advanced Methods for the Design and Analysis of Cohort Studies, <u>Lab Instructor and Teaching Assistant</u> .
2016	Advanced Seminar in Social Epidemiology, <u>Teaching Assistant</u> .
2016	Political Economy of Social Inequalities, <u>Teaching Assistant</u> .

ACADEMIC SERVICE*School of Medicine, University of Oviedo, Asturias, Spain*

2004-2007	Asturian Medical Students Association, <u>webpage administrator</u>
2007-2009	Spanish Medical Students Federation (IFMSA-Spain), <u>webpage administrator</u>
2008-2009	Asturian Medical Students Association, <u>President</u>
2009-2010	Spanish Medical Students Federation (IFMSA-Spain), <u>President</u>
2010	<u>Head of Delegation</u> at the 59 th General Assembly of the International Federation of Medical Students Associations (IFMSA), Bangkok
2010	<u>Head of Delegation</u> at the 60 th General Assembly of the International Federation of Medical Students Associations (IFMSA), Montreal
2011	Committee for the adaptation of the Doctor of Medicine Degree to the European Higher Education Area, <u>student representative</u>

School of Medicine, Universidad de Alcala, Madrid, Spain

2012-2013	Social and Cardiovascular Epidemiology Research Group, <u>Journal Club Coordinator</u>
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Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

2013-2017	Social Epidemiology Student Organization, <u>Director</u>
2014-2015	Departmental Curriculum Committee, Department of Epidemiology, <u>Student Representative</u>
2014-2015	<u>Coordinator</u> for the Research Pearl at the Welch Center Grand Rounds of Clinical Research, Johns Hopkins Medical Institutions

2015-2016	Website Design Committee, Welch Center Grand Rounds of Clinical Research, <u>Trainee Representative</u>
2015-2016	Departmental Faculty Committee, Department of Epidemiology, <u>Student Representative</u>
2015-2016	CLF-Lerner Fellows Journal Club, Center for a Livable Future, <u>Co-Coordinator</u>
2016-2017	CLF-Lerner Fellows Enrichment Activities, Center for a Livable Future, <u>Co-Coordinator</u>
2016-2017	Epidemiology Inclusion, Diversity, Equity & Science (Epi-IDEAS) Workgroup, Department of Epidemiology, <u>Founding Member</u>

Drexel University Dornsife School of Public Health, Philadelphia, PA

2018-2019	Ad-hoc committee to design appointment and promotion guidelines for research faculty in the Dornsife School of Public Health
2019	Session Judge for the 12 th Global Challenges Student Conference
2019-present	Global Health Advisory Committee, Office of Global Health
2019-present	Curriculum Committee, Department of Epidemiology and Biostatistics
2020	Poster Judge for Virtual STAR Undergraduate Scholars Competition
2021-2022	Mann Lecture Selection Committee
2021-2022	FIRST Faculty Search Selection Committee
2022	Areas of Excellence program from the Provost's Office, focus group member
2023-current	Dornsife School of Public Health Dean Search Committee
2023-current	Epidemiology PhD Curriculum Working Group, Department of Epidemiology and Biostatistics

COMMUNITY SERVICE

2020	Lecture on Epidemics and Inequalities, Escuela Clara Campoamor, PODEMOS Asturias (Spain)
2020	Panelist, COVID-19 Health Equity Gaps, Council of State Governments-Eastern Regional Conference and Healthcare Ready
2020	Member of the Advisory Group on the Reopening of the Economy of Asturias, Asturian Regional Government (Spain)
2020	Provided expert Testimony on the Committee to Review the Government Response to the COVID-19 Pandemic, Parliament of Asturias (Spain)
2020-current	Member of the COVID-19 Racial Equity Response Team/Vaccine Advisory Group, Philadelphia Department of Public Health
2020-current	Member of the COVID-19 Response Advisory Board, Asturian Regional Government (Spain)
2021	Lecture on Epidemiology and Public Health, Montedeva High School, Asturias (Spain)
2021	Technical report on the role of indoor dining in COVID-19 transmission for a court case involving the Directorate of Public Health of Asturias (Spain) and the local restaurants association.

2023-current Member of the Board of Health, City of Philadelphia

RESEARCH GRANT PARTICIPATION

Active

Wellcome Trust (Climate Impact Awards) Bilal, Sub-P.I. <i>Urban Inequality and Spatial Distribution of Heat Mortality in Brazilian Cities (227978/Z/23/Z)</i>	11/01/2023-10/30/2026 Total costs: \$3,810,000
Wellcome Trust (Our Planet Our Health) Diez-Roux, P.I. (Bilal, Co-investigator) <i>What makes cities healthy, equitable and environmentally sustainable? Lessons from Latin America (Our Planet, Our Health 205177/Z/16/Z)</i>	04/01/2017-10/30/2023 Total costs: \$12,191,632
National Institutes of Health, Office of the Director Bilal, P.I. <i>The Health Consequences of Urban Scaling (Early Independence Award, DP5OD026429)</i>	09/06/2018-08/31/2023 Total costs: \$1,956,250
National Institutes of Health, Office of the Director Bilal, P.I. <i>Excess Mortality during the COVID-19 Pandemic in US Cities (Supplement to DP5OD026429)</i>	09/01/2022-08/31/2023 Total costs: \$357,179
Fondo de Investigaciones Sanitarias (Spain) Gullon & Diez, M.P.I. (Bilal, Co-investigator) <i>Social Inequalities in Cardiovascular Risk Factors by region in Spain (PI21/01868)</i>	01/01/2022-12/13/2024 Total costs: \$53,235
Programa Operativo FEDER Andalucía (Spain) Campos/Chillon, P.I. (Bilal, Co-investigator) <i>CiudActiva: Influence of urban environments on physical activity behavior in andalusian adolescents (B-CTS-160-UGR20)</i>	01/01/2022-12/31/2023 Total costs: \$56,715
National Institutes of Health, NINR Momplaisir & Jemott, M.P.I. (Bilal, Co-Investigator) <i>Improving the Organizational Social Context to Address Structural Racism and Discrimination: A Randomized Controlled Trial to Reduce Racial Disparities in Viral Suppression and Retention in HIV Care (R01NR020764)</i>	09/16/2022-06/30/2027 Total costs: \$3,755,983

Complete

Robert Wood Johnson Foundation Mullachery, P.I. (Bilal, Co-investigator) <i>Social Determinants of Health and COVID-19 in Philadelphia (RWJF 78953)</i>	12/01/2021-04/30/2023 Total costs: \$100,000
National Institutes of Health, Office of the Director	09/01/2020-08/31/2022

Bilal, P.I. <i>COVID-19 Inequities among Hispanics in US Cities (Supplement to DP5OD026429)</i>	Total costs: \$391,250
Robert Wood Johnson Foundation/Big Cities Health Coalition Diez-Roux & Bilal, M.P.I. <i>Tracking Equity Issues in COVID-19 Testing and Vaccination Access in Selected US Cities (RWJF 78325)</i>	12/15/2020-03/31/2022 Total costs: \$249,000
Bloomberg Philanthropies Diez-Roux, P.I. (Bilal, Co-investigator) <i>Evaluation of road traffic safety initiatives in Mexico City and Leon, Mexico</i>	01/01/2019-07/31/2021 Total costs: \$299,693
Robert Wood Johnson Foundation/Big Cities Health Coalition Diez-Roux, P.I. (Bilal, Co-investigator) <i>Creation of a Dashboard for COVID-19 indicators for the members of the Big Cities Health Coalition with a focus on Health Equity (RWJF 77644)</i>	06/15/2020-05/31/2021 Total costs: \$249,000
de Beaumont Foundation/Big Cities Health Coalition Diez-Roux, P.I. (Bilal, Co-investigator) <i>Management of Big Cities Health Coalition Data Platform</i>	02/01/2020-10/31/2020 Total costs: \$215,000
Urban Health Collaborative Pilot Grants Bilal, P.I. <i>Heterogeneity and Determinants of Health Disparities by Income in US Cities</i>	07/01/2018-06/30/2019 Total costs: \$15,000
Fondo de Investigaciones Sanitarias (Spain) Sureda, P.I. (Bilal, Co-investigator) <i>Availability of Tobacco Products and Smoke free Policy Implementation in Madrid</i>	01/01/2016-12/31/2018 Total costs: \$91,310

PRESENTATIONS

Invited Seminars/Presentations

- 2012 Framework to study the Social Determinants of Health. Summer School of Public Health for Medical Students, Andalusian School of Public Health, Granada, Spain
- 2012 Sick Individuals and Sick Populations. School of Medicine, Complutense University, Madrid, Spain
- 2015 Macrosocial Changes and Chronic Diseases: Gender and Tobacco in Spain, 1960-2010. Seminar Series, National Center for Epidemiology (CNE), Madrid, Spain.
- 2016 The Health Effects of Economic Change: National Policies and Local Mechanisms. Public Health Forum. Institute of Psychology Health and Society, University of Liverpool, UK.
- 2017 Neighborhood Social and Economic Change, Food Environment Change and Diabetes Incidence in Madrid, Spain. Seminarios de Epidemiologia Social. National School of Public Health, ISCIII, Madrid, Spain.

- 2018 Neighborhood Environments and Risk of Non-Communicable Diseases (Online). YCARE (Youth/Child cArteriovascular Risk and Environmental) Research Group, University of Sao Paulo, Sao Paulo, Brasil.
- 2018 Studying Health and Health Inequalities in Cities of the Americas. Department of Epidemiology and Biostatistics Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2019 Heterogeneity in Health Disparities by Income in Metropolitan Areas of the US. Urban Health Collaborative Brown Bag series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2019 Health and Health Inequalities in Cities of Latin America. Instituto de Salud Colectiva, Universidad Nacional de Lanus, Lanus, Provincia de Buenos Aires, Argentina
- 2019 Health Inequalities in Urban Areas of Latin America: preliminary results from the SALURBAL study. Global Health Program. Georgetown University, Washington, DC.
- 2019 Health and Health Inequalities in Cities of the US and Latin America. Epidemiology and Public Health Grand Rounds. University of Maryland School of Medicine, Baltimore, MD.
- 2020 Health Inequalities in the Americas – a 10,000 ft view of Urban Health in the US and Latin America. Division of Epidemiology, Department of Population Health. NYU Grossman School of Medicine, New York City, NY.
- 2020 Data visualization for Health Equity: a case study of inequalities in Latin American cities. Current Topics in Epidemiology, Department of Epidemiology. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- 2020 Data visualization for Health Equity. Urban Health Collaborative Brown Bag series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2020 Health and Health Inequalities in Cities of Latin America: Preliminary Results from the SALURBAL study. Centro de Investigacion en Salud Poblacional, Instituto Nacional de Salud Publica, Cuernavaca, Mexico.
- 2020 Urban Scaling and Health: Regularities (and Irregularities) in Health Outcomes across Urban Areas of the Americas. Centre for Population Dynamics. McGill University, Montreal, QC, Canada.
- 2020 COVID-19 and Cities Webinar, Emerging Issues in the Coronavirus Pandemic Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2020 Spatial Inequities in COVID-19 Outcomes. Department of Epidemiology and Biostatistics Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2020 COVID-19 and Cities Webinar, Emerging Issues in the Coronavirus Pandemic Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2020 Inequities in COVID-19. Conference on Social Inequalities in Pandemics. UNESCO Chair in Citizenship, Coexistence and Pluralism, Universidad de Navarra, Pamplona, Spain.
- 2020 Social Inequalities as a Cause and Consequence of COVID-19. Drexel Libraries ScholarSip Series, Drexel University, Philadelphia, PA.

- 2021 Using epidemiological evidence to inform public health practice: a case-study from Spain. Department of Epidemiology and Biostatistics Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2021 Spatial Inequities in COVID-19 Outcomes in Three Large US Cities (and an update with regards to vaccination). Drexel Population Health Symposium, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2021 Health Inequalities in Latin American Cities. EPI Seminar Series, Department of Epidemiology, Colorado School of Public Health, Aurora, CO.
- 2022 Using epidemiological evidence to inform public health practice: the case of indoor dining and COVID-19. Translational Epidemiology Series, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.
- 2023 Inequalities in life expectancy across the Americas. FIRST Seminar Series, Drexel Dornsife School of Public Health, Philadelphia, PA.
- 2023 [Cardiovascular disease inequalities across the continuum of urbanization]. D43 INCAP-Drexel Seminar Series, INCAP, Guatemala

Scientific Chair (or equivalent organizer) of Scientific Events

- 2019 Levels and Determinants of Urban Mortality: A Focus on Cities of Latin America (**Scientific Organizer**). Urban Health Collaborative, Dornsife School of Public Health, Drexel University, Philadelphia, PA

Session Chair (or equivalent) at Scientific Meetings

- 2018 Urban and Environmental Health (**Session co-Chair**). Spanish Society of Epidemiology and Portuguese Association of Epidemiology Annual Meeting, Lisbon, Portugal
- 2019 Interdisciplinary Approaches to Health Inequalities in US Cities (**Symposium Organizer**). Interdisciplinary Association for Population Health Science Annual Meeting, Seattle, WA
- 2019 Health in Cities of the Americas (**Symposium Organizer**). American Public Health Association Annual Meeting, Philadelphia, PA
- 2022 Revisiting the Epidemiologic Transitions Theory 50 years later (**Symposium Organizer**). Society for Epidemiologic Research Annual Meeting, Chicago, IL.

Presentations at Scientific Meetings (Keynote/Plenary Speaker)

- 2021 Health and Health Inequalities in Latin America (**Plenary presentation**). International Conference on Urban Health, Virtual.
- 2022 Narratives around urban health: before and after (**Keynote speaker**). [Conferencia Green Cities, Ciudades de Futuro], Vitoria/Gasteiz, Spain.

Presentations at Scientific Meetings (Oral Presentations)

- 2009 Estrogens and Cardiovascular Primary Prevention (**Oral Presentation**). 15th National Congress of Cardiology for Medical Students, Salamanca, Spain
- 2014 Fixed-effects versus Random-effects in the analysis of time-fixed confounding of ecological time series: a simulation study (**Live Presentation, award winning**). 4th Annual SERdigital Student Novel Methods Web Conference (Online)
- 2016 Population Cardiovascular Health and Urban Environments: The Heart Healthy Hoods exploratory study in Madrid, Spain (**Oral Presentation**); Healthy urban environment characterization focused on physical activity and food: A GIS-based method (**Oral Presentation**, on behalf of A. Cebrecos); Does walkability differ by area sociodemographic profile? A study of Madrid City (**Oral Presentation**, on behalf of P. Gullon). 13th International Conference on Urban Health, San Francisco, CA
- 2016 [Measuring Social and Economic Change in Small Areas of Madrid, Spain: Innovative Indicators and Alternative Data Sources] (**Oral Presentation**); Economic Growth and Mortality: Do Social Protection Policies Matter? (**Oral Presentation**). Annual Meeting of the Spanish Society of Epidemiology, Seville, Spain
- 2017 Neighborhood Social and Economic Change and Diabetes Incidence in Madrid, Spain (**Oral Presentation**). Annual Meeting of the Society for Epidemiologic Research (SER), Seattle, WA
- 2018 Mortality Profiles in 366 Cities in 10 Latin American Countries (**Oral Presentation**). 3rd Drexel International Research Showcase. Drexel University, Philadelphia, PA.
- 2019 Mortality and Inequality in Urban Areas of the Americas (**Oral Presentation**). Spotlight On...Global Engagement! Series. Drexel University, Philadelphia, PA
- 2019 Levels and determinants of urban mortality in Latin American cities: data from the SALURBAL project (**Oral Presentation**). Pre-Symposium on Levels and determinants of urban mortality: a focus on cities of Latin America, Drexel University, Philadelphia, PA
- 2019 Health Inequalities by Income in Cardiovascular Risk Factors and Life Expectancy in US Metropolitan Areas (**Oral Presentation**). Interdisciplinary Association for Population Health Science Annual Meeting, Seattle, WA
- 2019 Heterogeneity in Disparities by Income in the Prevalence of Cardiovascular Risk Factors in US Cities (**Oral Presentation**). American Public Health Association Annual Meeting, Philadelphia, PA
- 2021 What has it mean for me to be an epidemiologist during 2020? A 2021 update (**Oral Presentation**). Annual Meeting of the Society for Epidemiologic Research (SER), Virtual
- 2021 Scaling of Mortality in 742 Cities of the Americas (**Oral Presentation**). International Conference on Urban Health, Virtual.
- 2021 The COVID-19 Inequities in Cities Dashboard (**Oral Presentation**). Interdisciplinary Association for Population Health Science Annual Meeting, Virtual
- 2022 The unequal epidemiologic transitions (**Oral Presentation**). Society for Epidemiologic Research Annual Meeting, Chicago, IL.

- 2023 Capitalism and Health (**Discussant**). Society for Epidemiologic Research Webinar Series.
- 2023 COVID-19 disparities: the importance of describing what we think we already know (**Oral Presentation**). Society for Epidemiologic Research Annual Meeting, Portland, OR.
- 2023 “Se Habla Español” [We Speak Spanish] (**Panelist**). Society for Epidemiologic Research Annual Meeting, Portland, OR.

Presentations at Scientific Meetings (Posters, presented on site as first author)

- 2013 Gender Equality and female-to-male Smoking Ratio: Trends in Spain in the Last 50 Years (**Poster**). American Heart Association Epidemiology and Prevention 2013 Scientific Sessions, New Orleans, LA
- 2013 Validation of a Method to Reconstruct Historical Smoking Prevalence Rates (**Recorded Presentation**). 3rd Annual SERdigital Student Novel Methods Web Conference (Online).
- 2014 Food Stores, Food Markets and Healthy Food Availability in Comparable Urban Neighborhoods in Madrid and Baltimore (**Poster**), Measuring the Food, Tobacco, Alcohol and Physical Activity Urban Environments in Relation to Cardiovascular Health: The Heart Healthy Hoods Pilot Study in Madrid, Spain (**Poster**), Economic Crisis in Western Europe and Ischemic Heart Disease Mortality (**Poster**). American Heart Association Epidemiology and Prevention 2014 Scientific Sessions, San Francisco, CA
- 2014 Economic Crises and Ischemic Heart Disease Mortality in Europe: Effect Heterogeneity? (**Poster**), Selecting Comparable Neighborhoods across Cities: The Median Neighborhood Index (**Poster**). Society for Epidemiologic Research Annual Meeting, Seattle, WA
- 2015 Macroeconomic Growth is Associated with Increases in Cardiovascular Mortality in Countries with Lower Social Protection Spending (**Moderated Poster**). American Heart Association Epidemiology and Prevention 2015 Scientific Sessions, Baltimore, MD
- 2015 Fixed versus Random effects models for longitudinal data analysis of confounding in ecological time series: a simulation study (**Poster**). Society for Epidemiologic Research Annual Meeting, Denver, CO
- 2015 An in-depth characterization of a neighborhood’s social and physical environment in relation to cardiovascular health (**Poster**); 2015 Urban Health Symposium: Reimagining Health in Cities, Drexel University, Philadelphia, PA
- 2017 Measuring Neighborhood Social and Economic Change for Health Studies (**Poster**); 2017 Urban Health Symposium: Reimagining Health in Cities, Drexel University, Philadelphia, PA
- 2018 Mortality Profiles Across Latin American Cities in 10 countries: the SALURBAL project (**Poster**); Association of Obesity and Mortality in Individuals with Cardiovascular Disease and Well-Controlled Risk Factors (**Poster**); Society for Epidemiologic Research Annual Meeting, Baltimore, MD

- 2018 Life Expectancy in Latin American Cities: the SALURBAL project (**Poster**); Annual Meeting of the Spanish Society of Epidemiology, Lisbon, Portugal
- 2018 Mortality Profiles of 366 Latin American Cities: the SALURBAL project (**Poster**); Third Annual Population Health Science Research Workshop, Boston, MA
- 2019 Scaling of Mortality in Cities of the Americas (**Poster**); NIH High-Risk High Reward Conference, Bethesda, MD
- 2019 Heterogeneity and Determinants of Life Expectancy in 363 Cities of Latin America (**Poster**); Interdisciplinary Association of Population Health Sciences Annual Meeting, Seattle, WA