

CURRICULUM VITAE

JOSIAH L. KEPHART, Ph.D., M.P.H., C.P.H.

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EDUCATION

- 2019 PhD Bloomberg School of Public Health, Johns Hopkins University
Exposure Science and Environmental Epidemiology
- 2013 MPH Bloomberg School of Public Health, Johns Hopkins University
Global Environmental Sustainability and Health
- 2008 BA George Mason University, *summa cum laude*
Global Affairs

ACADEMIC & PROFESSIONAL EXPERIENCE

- 2022-Present Assistant Professor
Environmental and Occupational Health & Urban Health Collaborative
Dornsife School of Public Health, Drexel University
- 2019-2022 Post-doctoral Fellow
Urban Health Collaborative
Dornsife School of Public Health, Drexel University
- 2017-2018 Fogarty Global Health Scholar
National Institutes of Health/Fogarty International Center
- 2016-2019 Pre-doctoral Research Scholar
Center for Global NCD Research and Training
School of Medicine, Johns Hopkins University
- 2015-2019 Graduate Researcher
Department of Environmental Health and Engineering
Bloomberg School of Public Health, Johns Hopkins University

- 2013-2015 Research Data Analyst
Department of Epidemiology
Bloomberg School of Public Health, Johns Hopkins University
- 2012-2013 Graduate Researcher
Department of Environmental Health and Engineering
Bloomberg School of Public Health, Johns Hopkins University
- 2011-2012 Teen Parenting Services Coordinator
Congreso de Latinos Unidos, Philadelphia, PA
- 2009-2011 HIV Medical Case Manager
Congreso de Latinos Unidos, Philadelphia, PA
- 2002-2005 Disaster Response Coordinator (volunteer, 18 mo. total),
Obereros de la Viña, Guanaja, Honduras

PROFESSIONAL ACTIVITIES

- 2021-Present Society for Epidemiologic Research
- 2021-Present International Society for Urban Health
- 2018-Present International Society for Environmental Epidemiology
- 2013-Present Delta Omega National Public Health Honorary Society
- 2012-Present American Public Health Association
- 2011-2015 American Association of Geographers

AWARDS

- 2023 Urban Health Collaborative Doctoral Fellowship Award, Drexel University
(awarded to faculty, 2 years funding for doctoral student)
- 2022 Cotswold Foundation Postdoctoral Fellowship
- 2018-2019 Ruth L. Kirschstein Institutional National Research Service Award,
NIH/NIEHS
- 2018 Global Health Field Research Award, Johns Hopkins Center for Global Health
- 2017-2018 Fogarty Global Health Predoctoral Fellowship, NIH/FIC

2017	Global Established Multidisciplinary Site Student Award, Johns Hopkins Center for Global Health
2016-2017	Ruth L. Kirschstein Institutional National Research Service Award, NIH/NIEHS
2016	Global Established Multidisciplinary Site Student Award, Johns Hopkins Center for Global Health
2013	Delta Omega National Public Health Honorary Society, Alpha Chapter
2008	Outstanding Academic Achievement Award, George Mason University

PEER-REVIEWED JOURNAL ARTICLES

Under review

Gouveia N, Rodriguez-Hernandez JL, **Kephart JL**, Ortigoza A, Morales Betancourte R, Texcalac Sangrador JL, Rodriguez DA, Diez Roux AV, Sanchez B, Yamada G. Associations between fine particulate air pollution and cardiovascular and respiratory mortality in 337 cities in Latin America. *Manuscript under review for publication.*

Ramarao MVS, Arunachalam S, Sánchez BN, Schinasi LH, Bakhtsiyarava M, Caiaffa WT, Dronova I, Avila-Palencia I, Gouveia N, Ju Y, **Kephart JL**, Rodríguez DA. Projected changes in heatwaves over Central and South America using high-resolution regional climate simulations. *Manuscript under review for publication.*

Slovic AD, Indvik K, Gouveia N, Soriano Martins L, **Kephart JL**, Swanson S, Moran M, Zavaleta-Cortijo C, Bakhtsiyarava M, Knoll C, Quistberg A, Diez Roux AV. Climate hazards in Latin American cities: Understanding the role of the social and built environments and barriers to adaptation action. *Manuscript under review for publication.*

Simkovich SM, Hossen S, Williams KN, **Kephart JL**, Fandiño-Del-Rio M, Tarazona-Meza C, Goodman D, Moazzami M, Davila-Roman VG, Steenland K, Nicolau L, Dowdy D, Koehler K, Checkley W. Cooking with liquefied petroleum gas or biomass and quality of life: Results from a randomized controlled trial. *Manuscript under review for publication.*

Published

1. Auchincloss AH, Ruggiero DA, Chernak ED, **Kephart JL**. Climate disasters and adolescent mental distress. *Preventive Medicine Reports*. (In press, 2024).
2. **Kephart JL**, Gouveia N, Rodriguez DA, Indvik K, Alfaro T, Texcalac JL, Miranda JJ, Bilal U, Diez Roux AV. Ambient nitrogen dioxide in 47,187 neighborhoods across 326 cities in eight Latin American countries: population exposures and associations with urban features. *The Lancet Planetary Health*. (2023). 7(12):976-984. doi: 10.1016/S2542-5196(23)00237-1.

3. Schinasi L, Bakhtsiyarava M, Sanchez BN, **Kephart JL**, Ju Y, Arunachalam S, Gouveia N, Caiaffa WT, O'Neill MS, Dronova I, Diez Roux AV, Rodriguez DA. Greenness and excess deaths from heat in 323 Latin American cities: Do associations vary according to climate zone or green space configuration? *Environment International*. (2023); 180:108230. doi: 10.1016/j.envint.2023.108230.
4. Williams KN, Kamenar K, **Kephart JL**, Chiang M, Hartinger SM, Checkley W. Testing the effectiveness of household fuel conservation strategies: Policy implications for increasing the affordability of exclusive clean cooking. *Environment International*. (2023); 180:108223. doi: 10.1016/j.envint.2023.108223.
5. Tarazona-Meza C, Williams KN, Malpartida G, **Kephart JL**, Fandiño-Del-Rio M, Steenland K, Chiang M, Koehler K, Checkley W. Effects of a household air pollution intervention using liquefied petroleum gas stoves, continuous fuel distribution and behavioral messaging on dietary and sodium intake of adult women in Puno, Peru: A randomized controlled trial. *Public Health Nutrition*. (2023); 1-10. doi:10.1017/S1368980023000320
6. Williams KN, **Kephart JL**, Fandiño-Del-Rio M, Nicolaou N, Koehler K, Harvey SA, Checkley W. Sustained use of liquefied petroleum gas following one year of free fuel and behavioral support in Puno, Peru. *Energy for Sustainable Development*. (2023); 73:13-22. doi: 10.1016/j.esd.2023.01.005.
7. Bakhtsiyarava M, Schinasi LH, Sánchez BN, Dronova I, **Kephart JL**, Ju Y, Gouveia N, Caiaffa WT, O'Neill MS, Yamada G, Arunachalam S, Diez Roux AV, Rodríguez DA. Modification of temperature-related human mortality by area-level socioeconomic and demographic characteristics in Latin American cities. *Social Science and Medicine*. (2023); 317:115526. doi: 10.1016/j.socscimed.2022.115526.
8. **Kephart JL**, Sánchez BN, Moore J, Schinasi LH, Bakhtsiyarava M, Ju Y, Gouveia N, Caiaffa WT, Dronova I, Arunachalam S, Diez Roux AV, Rodríguez DA. City-level impact of extreme temperatures and mortality in Latin America. *Nature Medicine*. (2022); 28:1700-1705. doi: 10.1038/s41591-022-01872-6.
 -Published alongside an accompanying *Nature Research Briefing*. Rise in ambient temperature is associated with increased mortality in Latin America.
<https://www.nature.com/articles/s41591-022-01893-1>
 -Media coverage by Science News, BBC News World Service, and Nature News
9. **Kephart JL**, Fandiño-Del-Rio M, Williams KN, Shade T, Adekunle T, Steenland K, Naeher LP, Moulton LH, Gonzales GF, Chiang M, Chartier RT, Koehler K, Checkley W. Household air pollution concentrations after liquefied petroleum gas interventions in rural Peru: Findings from a one-year randomized controlled trial followed by a one-year pragmatic crossover trial. *Environmental Health Perspectives*. (2022); 130(5). doi: 10.1289/EHP10054.
10. Bakhtsiyarava M, Ortigoza A, Sánchez BN, Braverman-Bronstein A, **Kephart JL**, Rodriguez Lopez S, Rodriguez J, Diez Roux AV. Ambient temperature and birthweight in Latin

American cities. *Environment International*. (2022); 167:107412. doi: 10.1016/j.envint.2022.107412

11. **Kephart JL**, Delclòs-Alió X, Bilal U, Sarmiento OL, Barrientos-Gutiérrez T, Ramirez-Zea M, Quistberg AD, Rodríguez DA, Diez Roux AV. The effect of population mobility on COVID-19 incidence in 314 Latin American cities: a longitudinal ecological study with mobile phone location data. *The Lancet Digital Health*. (2021). 3(11):E716-E722. doi: 10.1016/S2589-7500(21)00174-6.
-Cited in the CDC COVID-19 Science Update (Edition 104) and in two articles from a major news outlet in Argentina.
12. **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); 98(3):428–432. doi: 10.1007/s11524-020-00509-8.
13. Gouveia N, **Kephart JL**, Dronova I, McClure L, Granados JAT, Morales Betancourt R, Cortinez-O’Ryan A, Texcalac JT, Martinez-Folger K, Rodriguez D, Diez Roux AV. Ambient fine particulate matter in Latin American cities: levels, population exposure, and associated urban factors. *Science of the Total Environment*. (2021); 772:145035. doi: 10.1016/j.scitotenv.2021.145035.
14. **Kephart JL**, Fandiño-Del-Rio M, Williams KN, Malpartida G, Lee A, Steenland K, Naeher LP, Gonzales GF, Chiang M, Checkley W, Koehler K. Nitrogen dioxide exposures from LPG stoves in a cleaner-cooking intervention trial. *Environment International*. (2021); 146:106196. doi: 10.1016/j.envint.2020.106196.
15. Checkley W, Williams KN, **Kephart JL**, Fandiño-Del-Rio M, Steenland NK, Gonzales GF, Naeher LP, Harvey SA, Moulton LH, Davila-Roman VG, Goodman D, Tarazona-Meza C, Miele CH, Simkovich S, Chiang M, Chartier RT, Koehler K. Effects of a Household Air Pollution Intervention with Liquefied Petroleum Gas on Cardiopulmonary Outcomes in Peru: A Randomized Controlled Trial. *American Journal of Respiratory and Critical Care Medicine*. (2021); 203(11):1386-1397. doi: 10.1164/rccm.202006-2319OC.
16. Fandiño-Del-Rio M, **Kephart JL**, Williams KN, Malpartida G, Boyd Barr D, Steenland K, Koehler K, Checkley W. Household air pollution and blood markers of inflammation: a cross-sectional analysis. *Indoor Air*. (2021). 31:1509-1521. doi: 10.1111/ina.12814.
17. **Kephart JL**, Fandiño-Del-Rio M, Koehler K, Bernabe-Ortiz A, Miranda JJ, Gilman RH, Checkley W. Indoor air pollution concentrations and cardiometabolic health across four diverse settings in Peru: a cross-sectional study. *Environmental Health*. (2020); 19:59. doi: 10.1186/s12940-020-00612-y.
18. **Kephart JL**, Fandiño-Del-Rio M, Williams KN, Malpartida G, Steenland K, Naeher L, Gonzales GF, Chiang, M, Checkley W, Koehler K. Nitrogen dioxide exposures from biomass

cookstoves in the Peruvian Andes. *Indoor Air*. (2020); 30:735–744. doi: 10.1111/ina.12653.

19. Williams KN, **Kephart JL**, Fandiño-Del-Rio M, Simkovich S, Koehler K, Harvey S, Checkley W, CHAP trial Investigators. Exploring the impact of a liquefied petroleum gas intervention on time use in rural Peru: A mixed methods study on perceptions, use, and implications of time savings. *Environment International*. (2020); 145:105932. doi: 10.1016/j.envint.2020.105932.
20. Williams KN, **Kephart JL**, Fandiño-Del-Rio M, Condori L, Koehler K, Moulton LH, Checkley W, Harvey S. Beyond cost: Exploring fuel choices and the socio-cultural dynamics of liquefied petroleum gas stove adoption in Peru. *Energy Research and Social Science*. (2020); 66:101591. doi: 10.1016/j.erss.2020.101591.
21. Williams KN, **Kephart JL**, Fandiño-Del-Rio M, O'Brien CJ, Moulton LH, Koehler K, Harvey S, Checkley W. Use of liquefied petroleum gas in Puno, Peru: Fuel needs under conditions of free fuel and near-exclusive use. *Energy for Sustainable Development*. (2020); 58:150-157. doi: 10.1016/j.esd.2020.07.011.
22. Fandiño-Del-Rio M, **Kephart JL**, Williams KN, Moulton LH, Steenland K, Checkley W, Koehler K. Household air pollution exposure and associations with household characteristics among biomass cookstove users in Puno, Peru. *Environmental Research*. (2020); 191:110028. doi: 10.1016/j.envres.2020.110028.
23. Burrowes VJ, Piedrahita R, Pillarisetti A, Underhill L, Fandiño-Del-Rio M, Johnson M, **Kephart JL**, et al. Comparison of next-generation portable pollution monitors to measure exposure to PM_{2.5} from household air pollution in Puno, Peru. *Indoor Air*. (2020); 00:1–14. doi:10.1111/ina.12638.
24. Pollard SL, Williams KN, O'Brien CJ, Winiker A, Puzzolo E, **Kephart JL**, Fandiño-Del-Rio M, Tarazona-Meza C, Grigsby MR, Chiang M, Checkley W. An evaluation of the Fondo de Inclusión Social Energético program to promote access to liquefied petroleum gas in Peru. *Energy for Sustainable Development*. (2018); 46:82–93. doi: 10.1016/j.esd.2018.06.001.
25. Fandiño-Del-Rio M, Goodman D, **Kephart JL**, Miele CH, Williams KN, Moazzami M, Fung EC, Koehler K, Davila-Roman VG, Lee KA, Nangia S, Harvey SA, Steenland K, Gonzales GF, Checkley W. Effects of a liquefied petroleum gas stove intervention on pollutant exposure and adult cardiopulmonary outcomes (CHAP): study protocol for a randomized controlled trial. *Trials*. (2017); 18:518. doi: 10.1186/s13063-017-2179-x.

RESEARCH GRANT PARTICIPATION

Active grants

Wellcome Trust

Diez Roux & Sarmiento, MPI. (Kephart, Co-Investigator)
Climate change and urban health in Latin America (SALURBAL-Climate; 227810/Z/23/Z)

11/01/2023-10/30/2028

Total costs: \$7,199,308

Wellcome Trust (Climate Impact Awards) **11/01/2023-10/30/2026**
Bilal, Sub-PI. (Kephart, Co-Investigator) Total costs: \$3,810,000
Urban Inequality and Spatial Distribution of Heat Mortality in Brazilian Cities
(227978/Z/23/Z)

National Institutes of Health, NIMHD **09/23/23-05/30/2026**
Diez Roux, PI. (Kephart, Co-Investigator) Total costs: \$3,205,772
Drexel Climate Change and Urban Health Research Center (Drexel CCUH) (P20MD019221)

Lacuna Fund (Climate and Health Award) **12/01-2022-06/30/2024**
Quistberg, PI. (Kephart, Co-Investigator) Total costs: \$300,034
Climate change, built environment and health in informal settlements in Colombia

National Institutes of Health, NCI **09/21/2021-08/31/2026**
Diez Roux & Gitlin, MPI. (Kephart, FIRST faculty) Total costs: \$14,391,741
*Catalyzing Systemic Change at Drexel University to Support Diverse Faculty in Health
Disparities Research (Faculty Institutional Recruitment for Sustainable Transformation;
U54CA267735)*

Completed grants

Wellcome Trust (Our Planet Our Health) **04/01/2017-10/30/2023**
Diez Roux, PI. (Kephart, Co-Investigator) Total costs: \$12,191,632
*What makes cities healthy, equitable and environmentally sustainable? Lessons from Latin
America (05177/Z/16/Z)*

Drexel Urban Health Collaborative **04/01/2022-03/31/2023**
Kephart, PI. Total costs: \$15,000
*Climate Change and Health Equity Working Group (Urban Health Collaborative Working
Group Funding Award)*

Cotswold Foundation **01/01/2022-12/31/2022**
Kephart, PI. Total costs: \$50,000
*The impacts of climate-related extreme flood events on health and health disparities in Latin
American cities (Cotswold Foundation Postdoctoral Fellowship)*

Wellcome Trust (Climate Change and Health Award) **10/01/2019-09/30/2022**
Rodríguez, PI. (Kephart, Co-Investigator) Total costs: \$96,751
Green spaces and climate-related mortality in Latin American cities (206029/Z/19/Z)

National Institutes of Health, FIC **2018-2019**
Checkley, PI. (Kephart, Co-Investigator) Total costs: \$115,000
*Evaluating LPG consumption behavior: identifying and testing conservation strategies to
maximize affordability and sustainability of exclusive LPG use (Clean Cooking Implementation
Science Network Award)*

National Institutes of Health, NIEHS **2018–2019**
Wills-Karp, PI. (Kephart, Pre-doctoral student)
(*Ruth L. Kirschstein Institutional National Research Service Award, 5T32ES007141-33*)

Johns Hopkins Center for Global Health **2018-2019**
Kephart, PI. Total costs: \$3,500
Nitrogen dioxide in household air pollution from biomass and gas cookstoves (Field Research Award)

Johns Hopkins Alliance for a Healthier World **2018**
Pollard, PI. (Kephart, Co-Investigator) Total costs: \$24,950
Addressing health system barriers to evidence-based asthma care in peri-urban Peru

National Institutes of Health, NIEHS/FIC **2017-2018**
Kephart, Pre-doctoral Fellow
The role of nitrogen dioxide in household air pollution from biomass and gas cookstoves (Fogarty Global Health Fellowship; D43 TW009340)

Johns Hopkins Center for Global Health **2017**
Kephart, Awardee Total costs: \$3,000
(*Global Established Multidisciplinary Site Student Award*)

National Institutes of Health, NIEHS **2016–2017**
Wills-Karp M, P.I. (Kephart, Pre-doctoral student)
(*Ruth L. Kirschstein Institutional National Research Service Award, 5T32ES007141-33*)

Johns Hopkins Center for Global Health **2016**
Kephart, Awardee Total costs: \$3,000
(*Global Established Multidisciplinary Site Student Award*)

Selected grant applications submitted but not funded

Burroughs Wellcome Fund (Climate and Health Interdisciplinary Awards)
Submitted 11/01/2023; Finalist, not funded
Climate change, wildfire smoke, and premature mortality in Latin American cities

National Institutes of Health, OD
Director's Early Independence Award (DP5)
Submitted 09/2020; Discussed, not funded
The contribution of the urban environment to COVID-19 incidence, mortality, and disparities in the USA and Latin America

TEACHING & MENTORING

Instructor of Record

Dornsife School of Public Health, Drexel University, Philadelphia, PA

- 2024 The Public Health Impacts of Global Climate Change, EOH 657
- 2023 Healthy Housing & Built Environment, EOH 642

Teaching Assistantships

Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

- 2019 Exposure Assessment Techniques for Health Risk Management
- 2018 Methods in the Exposure Sciences
- 2017 Spatial Statistics
- 2016 The Global Environment, Climate Change, & Public Health
- 2016 Spatial Analysis for Public Health
- 2016 Spatial Data Technologies for Mapping

Guest Lectures

- 2023 *Climate change, air pollution, and the commercial determinants of health*, Advanced Topics in Epidemiologic History, Theory, and Biases, Drexel University, Philadelphia, PA
- 2021 *The commercial determinants of health*, Advanced Topics in Epidemiologic History, Theory, and Biases, Drexel University, Philadelphia, PA
- 2019 *Challenges and opportunities in global environmental health*, Rouse Honors Seminar, Howard Community College, Columbia, MD
- 2018 *Data visualization for environmental data*, Methods in the Exposure Sciences, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

Doctoral Thesis Committee

- 2023-curr. Lisa Frueh, Department of Environmental and Occupational Health, Drexel University.
- 2023-curr. Celia Minerva Jimenez Ortiz, Instituto Nacional de Salud Pública, México *Modification of temperature-related cardiovascular mortality by building features in Mexican cities*
- 2021-curr. Karla Fabiola Rangel Moreno, MS, Instituto Nacional de Salud Pública, México. *Ambient temperature and diabetes mortality in Latin American cities*

Masters Thesis Committee

- 2017-2018 Maria Jolly, MSPH, Emory University, Atlanta, USA *Household Air Pollution (PM_{2.5}) and Blood Pressure in Non-Hypertensive Adult Women Living in the Highlands of Peru*

Masters Research mentees

- 2020-2022 Gary Malpartida Guzmán, BS. Program: MS in Environmental Health, Universidad Peruana Cayetano Heredia (Lima, Peru)
- 2017-2018 Maria Jolly, BS. Program: MS in Public Health, Emory University.
Current position: Project Manager (CDC)
- 2017-2018 Ariadne Villegas, BA. Program: MS in Public Health, Johns Hopkins University. Current position: Research Associate (Public Health Institute)
- 2017-2018 Lena Stashko, BS. Program: MS in Public Health, Johns Hopkins University. Current position: Senior Global Health Consultant (Sassenach Inc.)
- 2017-2018 Abigail Winiker, BA. Program: MS in Public Health, Johns Hopkins University. Current position: PhD student (Johns Hopkins University)
- 2016-2017 Dina Goodman, BA. Program: MS in Public Health, Johns Hopkins University. Current position: PhD candidate (Harvard University)
- 2016-2017 Elizabeth Fung, BS. Program: MS in Public Health, Johns Hopkins University. Current position: Medical student (University of California at Davis)

Undergraduate Research mentees

- 2017-2019 Tim Shade. Program: BA in International Studies, Johns Hopkins University
- 2017-2018 Alexander Lee. Program: BS in Biology, Howard University
- 2016-2017 Saachi Nangia. Program: BS in Biology, Johns Hopkins University

MPH Alumni Program Mentor, Johns Hopkins Bloomberg School of Public Health

- 2018 Cusi Ferradas, MPH
- 2017 Takako Kanakubo, MPH

PRESENTATIONS

Presentations at Scientific Meetings (Oral Presentations)

- 2024 *Climate change and urban health in Latin America: The SALURBAL-Climate Project. (Oral presentation). 1st Annual CAFÉ Climate and Health Conference. Virtual meeting.*
- 2023 *Six years of the Urban Health in Latin America Project. (Panel discussion). 19th International Conference on Urban Health. Atlanta, GA.*
- 2023 *Social disparities in flood exposure and associations with the built environment in 49,233 urban neighborhoods in eight Latin American countries (Moderated Discussion). Annual Meeting of the International Society for Environmental Epidemiology. Kaohsiung, Taiwan.*
- 2021 *Extreme temperatures and health in Latin American cities (Oral Presentation). 17th International Conference on Urban Health, Virtual meeting.*

- 2021 *The impact of mobility on COVID-19 incidence and disparities at the sub-city level in 314 Latin American cities (Oral Presentation).* Society for Epidemiologic Research Annual Meeting, Virtual meeting.
- 2019 *Energy transitions for household air pollution (Oral Presentation).* Primary Air Care Symposium, Johns Hopkins University, Baltimore, MD
- 2018 *Household air pollution reductions in the Cardiopulmonary Outcomes and Household Air Pollution trial (Oral Presentation).* Global Non-Communicable Diseases Symposium, Johns Hopkins School of Medicine, Baltimore, MD
- 2018 *Indoor NO₂ in homes with biomass cookstoves before and after a gas stove intervention: preliminary results (Oral Presentation).* Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, Canada
- 2018 *The GEOHealth program in Peru, with preliminary results from a project on clean cookstoves (Oral Presentation).* Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, Canada
- 2017 *Preliminary results of environmental assessments in the CHAP study (Oral Presentation).* Global Non-Communicable Diseases Symposium, Johns Hopkins School of Medicine, Baltimore, MD

Session Chair (or equivalent) at Scientific Meetings

- 2021 Climate and temperature and health (**Session co-chair**). 33rd Annual Meeting of the International Society for Environmental Epidemiology, Virtual meeting.

Presentations at Scientific Meetings (Selected Posters)

- 2022 **Kephart JL**, Bilal U, Gouveia N, Rodriguez DA, Alfaro T, Texcalac JL, Miranda JJ, Diez Roux AV. *Ambient nitrogen dioxide exposures in Latin American cities. (Poster).* 34th Annual Meeting of the International Society for Environmental Epidemiology, Athens, Greece.
- 2021 **Kephart JL**, Sánchez B, Moore J, Schinasi LH, Delclòs-Alió X, Bakhtsiyarava M, Gouveia N, Caiaffa WT, Dronova I, Arunachalam S, Diez Roux AV, Rodríguez DA. *Extreme temperatures and mortality in 326 Latin American cities (Poster).* 33rd Annual Meeting of the International Society for Environmental Epidemiology, Virtual meeting.

- 2020 **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 (Poster)*. 32nd Annual Meeting of the International Society for Environmental Epidemiology, Virtual meeting.
- 2019 Williams KN, **Kephart JL**, Fandiño-del-Rio M, Simkovich S, Harvey S, Checkley W. *Exploring time use as a co-benefit and potential modifier of environmental-focused clean cooking interventions (Poster)*. 31st Annual Meeting of the International Society for Environmental Epidemiology, Utrecht, The Netherlands.
- 2019 **Kephart JL**, Fandiño-del-Rio M, Checkley W, Koehler K. *Exposure misclassification from area sampling in epidemiologic studies of cookstove emissions (Poster)*. 31st Annual Meeting of the International Society for Environmental Epidemiology, Utrecht, The Netherlands.
- 2018 Fandiño M, **Kephart JL**, Checkley W, Koehler K. *Particulate Matter and Black Carbon Personal Exposure Reductions from an LPG Stove Intervention in Rural Households in Puno, Peru: Preliminary Results (Poster)*. Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, Canada.
- 2017 **Kephart JL**, *Using Free Statistical Computing Tools for Public Health Data Analysis in Resource-Limited Settings (Poster)*. Global Environmental and Occupational Health (GEOHealth) Network Meeting, National Institutes of Health, Bethesda, MD
- 2015 Quispe AM, Mousam A, Aquila V, **Kephart JL**, Lescano AG, Maggioni V. *Climate change as a threat for countries progressing towards malaria elimination: The case study of Peru, Ecuador, and Colombia (Poster)*. International Conference on Emerging Infectious Diseases, Atlanta, GA
- 2014 Quispe AM, **Kephart JL**, Lescano AG. *A free online app for planning malaria control and outbreak responses in the Peruvian Amazon (Poster)*. II Conference on Scientific Research in Tropical Diseases and Public Health, Iquitos, Peru
- 2014 **Kephart JL**, Kirk GD, Mehta SH. *Spatial patterns of initial drug use among intravenous drug users in Baltimore, MD (Poster)*. Geographic Information Systems Day, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2014 Quispe AM, Aquila V, **Kephart JL**, Lescano AG. *Latitude and microclimate associated with malaria incidence at the district level in a low endemic area (Poster)*. American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, LA

2014 Quispe AM, **Kephart JL**, Lescano AG, Shields TM, Shiff CJ. *A free surveillance app for planning malaria elimination interventions and outbreak responses at the community level in malaria endemic countries* (**Poster**). American Society of Tropical Medicine and Hygiene Annual Meeting, New Orleans, LA

Invited Seminars/Presentations

2023 *Leveraging Open Access & Online Interactive Applications to Disseminate Urban Health Research*. Drexel University Libraries Open Access Week. Philadelphia, PA.

2023 *Cambio climático y disparidades de salud en ciudades latinoamericanas [Climate change and health disparities in Latin American cities]*. Seminar at the Center for Population Health Research, National Institute of Public Health (Mexico), Mexico City, Mexico.

2023 *Social disparities in flood exposures in Latin American cities*. Urban Health Collaborative Weekly Forum, Drexel University, Philadelphia, PA.

2023 *Modeling the health impacts of time-varying climate factors: heat and mortality*. Workshop at the 2023 Urban Health in Latin America Meeting. Mexico City, Mexico.

2023 *Climate change and health equity: extreme temperatures and mortality in highly urbanized Latin America*. Seminar at the Department of Epidemiology, Biostatistics, and Occupational Health. McGill University, Montreal, Canada.

2023 *Global Climate Change and Health Equity in Cities*. Urban Health Collaborative Weekly Forum, Drexel University, Philadelphia, PA.

2022 *Climate Change and Health Equity: Confronting Current and Future Environmental Health Disparities*. Department of Environmental and Occupational Health, Drexel University, Philadelphia, PA

2022 *Understanding the impacts of climate disasters on health disparities*. Urban Health Collaborative Weekly Forum, Drexel University, Philadelphia, PA

2021 *Improving environments to reduce health disparities: air pollution, extreme heat, and COVID-19 lockdowns in Latin America*. Department of Environmental and Occupational Health Research Seminar, Drexel University, Philadelphia, PA

- 2021 *Extreme heat and mortality: evidence from 326 Latin American cities.* Climate Change and Health panel, Climate Year Speaker Series. Drexel University, Philadelphia, PA.
- 2020 *Household air pollution: an exposure of inequity.* Urban Health Collaborative Seminar, Drexel University, Philadelphia, PA
- 2020 *COVID-19 and air pollution in Latin American cities.* Urban Health Collaborative Seminar, Drexel University, Philadelphia, PA
- 2020 *COVID-19, air pollution, and health inequities in Latin American cities.* Latin America and the Caribbean Urban Health Webinar Series, Drexel University, Philadelphia, PA
- 2019 *Nitrogen dioxide exposures from biomass and gas cookstoves.* Department of Environmental Health and Engineering Doctoral Student Seminar, Johns Hopkins University, Baltimore, MD
- 2019 *Nitrogen dioxide and household air pollution from biomass and liquefied petroleum gas cookstoves.* Department of Environmental Health and Engineering Doctoral Thesis Defense, Johns Hopkins University, Baltimore, MD
- 2018 *Lessons learned in global environmental health.* NIH/NIEHS Global Environmental Health Day, Research Triangle Park, NC
- 2018 *The role of nitrogen dioxide in household air pollution from biomass and gas cookstoves.* Department of Environmental Health and Engineering Doctoral Student Seminar, Johns Hopkins University, Baltimore, MD
- 2016 *Effect of a clean cookstove intervention on household air pollutants in Puno, Peru.* Department of Environmental Health and Engineering Doctoral Student Seminar, Johns Hopkins University, Baltimore, MD

Select Media Appearances and Research Dissemination

- 2023 **National Public Radio: Short Wave.** *How worried should you be about your gas stove?* Interview with Jeff Brady. Jan 30.
<https://www.npr.org/2023/01/27/1152117365/how-worried-should-you-be-about-your-gas-stove>
- 2023 **The New York Times.** *Is the Era of Gas Stoves Burning Out?* Quoted in article about health risks of gas stoves. Jan 25.
<https://www.nytimes.com/2023/01/25/opinion/gas-stove-ban-induction.html>

- 2023 **Scientific American.** *The Health Risks of Gas Stoves Explained.* Quoted about reducing health threats from gas stoves.
<https://www.scientificamerican.com/article/the-health-risks-of-gas-stoves-explained/>
- 2023 **National Public Radio: Here & Now.** *What we know about the dangerous pollutants emitted by gas stoves.* Six-minute radio interview aired nationally on health risks from gas stoves. Jan 10.
<https://www.npr.org/2023/01/10/1148156485/human-composting-offers-an-environmentally-friendly-alternative-gas-stoves-emiss>
- 2022 **Energy and Climate Partnership of the Americas (Organization of American States).** *Heat and Human Health.* Quoted in article about findings of Kephart et al. *Nature Medicine* (2022). Aug 27.
<https://ecpamericas.org/newsletters/heat-and-human-health/>
- 2022 **BBC News World Service: Science In Action.** *Extreme heat death risk in Latin America.* Seven-minute radio interview run globally about findings of Kephart et al. *Nature Medicine* (2022). Jun 30.
<https://www.bbc.co.uk/programmes/w3ct3695>
- 2022 **Science Magazine.** *Extreme temperatures in major Latin American cities could be linked to nearly 1 million deaths.* Quoted in article about findings of Kephart et al. *Nature Medicine* (2022). Jun 28.
<https://www.science.org/content/article/extreme-temperatures-major-latin-american-cities-could-be-linked-nearly-1-million>
- 2022 **National Public Radio: All Things Considered.** *Encore: Gas stoves leak climate-warming methods even when they're turned off.* Interview with Jeff Brady appearing on nationally syndicated radio. Jun 2.
<https://www.npr.org/2022/06/02/1102728976/encore-gas-stoves-leak-climate-warming-methane-even-when-theyre-off>
- 2022 **CBC News.** *After seeing how gas stoves pollute homes, these researchers are ditching theirs.* Quoted in web article by Canadian public broadcaster. Apr 07.
<https://www.cbc.ca/news/science/gas-stoves-air-pollution-1.6394514?cmp=rss>
- 2022 **Carbon Switch.** *How bad is my gas stove?* Interview with Michael Thomas appearing in a prominent climate action newsletter and website. Jan 13.
<https://carbonswitch.co/how-bad-is-my-gas-stove-part-two>
- 2021 **National Public Radio: Morning Edition.** *We need to talk about your gas stove, your health and climate change.* Interview with Jeff Brady appearing on nationally syndicated radio with accompanying web article. Oct 07.
<https://www.npr.org/2021/10/07/1015460605/gas-stove-emissions-climate-change-health-effects>

- 2021 **Centers for Disease Control and Prevention.** *COVID-19 Science Update (Edition 104)*. Summary of key findings from Kephart et al. (2021, *The Lancet Digital Health*). Sep 10.
https://www.cdc.gov/library/covid19/09102021_covidupdate.html
- 2021 **Infobae.** *¿Cuándo recomiendan los científicos levantar las restricciones de la pandemia? [When do scientists recommend lifting pandemic restrictions?]*. Article in major Argentine news outlet highlighting Kephart et al. (2021, *The Lancet Digital Health*) as evidence for COVID-19 mitigation policies. Sep 6.
<https://www.infobae.com/americaciencia/2021/09/07/cuando-recomiendan-los-cientificos-levantar-las-restricciones-de-la-pandemia/>
- 2021 **Infobae.** *The Lancet analizó la relación entre la movilidad urbana y los contagios en 314 ciudades de América Latina [The Lancet analyzed the relationship between urban mobility and infection in 314 cities in Latin America]*. Article in major Argentine news outlet summarizing Kephart et al. (2021, *The Lancet Digital Health*). Aug 30.
<https://www.infobae.com/americatendencias/2021/08/30/the-lancet-analiza-la-relacion-entre-la-movilidad-urbana-y-los-contagios-en-314-ciudades-de-america-latina/>

EDITORIAL ACTIVITIES

Intramural Review (Drexel University)

- 2021-curr. Member and Reviewer, SALURBAL Project Proposals and Publications Committee
- 2019 Judge, Drexel University School of Biomedical Sciences and Professional Studies Discovery Day

Review of Abstracts for Scientific Meetings

- 2023 International Society for Environmental Epidemiology Annual Conference
- 2022 International Society for Environmental Epidemiology Annual Conference
- 2022 Society for Epidemiologic Research Annual Conference
- 2021 International Society for Environmental Epidemiology Annual Conference

Journal Reviewer, Peer Review

American Journal of Preventive Medicine
Applied Sciences
British Medical Journal (BMJ)
Environmental Health Perspectives
Environmental Research
Health and Place

Indoor Air
International Journal of Environmental Research and Public Health
Journal of Exposure Science and Environmental Epidemiology
The Lancet Planetary Health
Nature Medicine
PLOS ONE
Science Advances
Scientific Reports
Urban Climate

OTHER ACADEMIC SERVICE

Drexel University

2023-Present Committee, MS Program in Environmental and Occupational Health
2023-Present Member, Executive Committee of Faculty, Dornsife School of Public Health
2022-Present Co-leader, Climate Change and Health Equity Working Group
2022-Present Faculty Advisor Board, Public Health Doctoral Student Advisory Group

Johns Hopkins University

2018 Planning committee, Global Non-Communicable Diseases Symposium
2017 Planning committee, Global Non-Communicable Diseases Symposium
2012-2013 Co-founder, Refuel Our Future, student group advocating for University fossil fuel divestment

George Mason University

2006-2008 Student Representative, Save Darfur Coalition

Northern Virginia Community College

2004-2005 Vice President (elected), Society for Black Students' Concerns

COMMUNITY SERVICE

2023 Advise local environmental justice group on surveying and advocating for community-identified environmental justice concerns, Overbrook Environmental Education Center, Philadelphia

2021-2023 Consultant (volunteer), indoor air quality and healthy clean-energy retrofits in public housing for Metro IAF, a large coalition of community-based organizations in NYC

2020-2022 Consultant (volunteer), COVID-19 risk management for two networks of faith communities in rural Virginia and urban Pennsylvania, USA

2018 Consultant (volunteer), Data analysis tracking migrant families separated at the US-Mexico border for a major NGO

2010-2012 Board Chair, Circle Venture, not-for-profit organization supporting environmental and equity initiatives in Philadelphia, Pennsylvania

SKILLS & CERTIFICATIONS

Languages Spanish – Professional working proficiency
English – Native speaker

Certifications

2013-curr. Certified in Public Health (CPH), National Board of Public Health Examiners
2010 Group Facilitation Certification, Latino Commission on AIDS

Professional computing experience

R, ArcGIS, Shiny, SAS, Stata, Unix