

CURRICULUM VITAE FOR PROMOTION AND TENURE

JESSE DAVID BERMAN

IDENTIFYING INFORMATION

Academic Rank

Assistant Professor, Division of Environmental Health Sciences, School of Public Health,
University of Minnesota

Education

Degree	Institution	Date Degree Granted
B.A.	Colgate University Environmental Biology English Literature	2004
M.H.S.	John Hopkins Bloomberg School of Public Health Department of Environmental Health Sciences	2008
Ph.D.	John Hopkins Bloomberg School of Public Health Department of Environmental Health Sciences Advisor: Frank C. Curriero	2013

Certificates

JHSPH Certificate in Risk Sciences and Public Policy 2008

Employment

University of Minnesota, Twin Cities Campus Assistant Professor, Division of Environmental Health Sciences	2017-present
Johns Hopkins School of Public Health Postdoctoral Associate, Department of Epidemiology Co-Advisor: Frank Curriero & Kirsten Koehler	2016-2017
Yale School of Forestry and Environmental Studies Postdoctoral Fellow Advisor: Michelle Bell	2013-2015
Exponent Inc., Chemical Regulation and Food Safety Practice Scientist	2005-2010
Assistant Scientist	2004-2005

Current Membership in Professional Organizations

Society for Epidemiologic Research [SER], 2019 - Present
International Society of Environmental Epidemiology [ISEE], 2014 - Present
International Society of Exposure Science [ISES], 2012 - Present
American Public Health Association [APHA], 2010
Beta Beta Beta Biological Society, 2003 (Lifetime member)

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

Internal Sources

Charles N. Hewitt Creative Teaching Award, University of Minnesota School of Public Health, 2023

Delta Omega Honorary Society in Public Health, Pi Chapter. Faculty Awardee, 2022

External Sources

Best Environmental Epidemiology Paper in 2019 from the International Society for Environmental Epidemiology (ISEE) for “Acute Air Pollution and Risk of Violent Behavior in the United States,” 2020

Selected Extramural Publication by the National Institute of Environmental Health Sciences (NIEHS) “Drought Associated with Risk of Hospitalizations and Mortality”, 2017

The Gaylord Donnelley Postdoctoral Environmental Fellowship, \$100,000 (2-years), Yale University Institute for Biospheric Studies, 2013-2015

David L. Swift Award for Aerosol Research in Environmental Health Engineering, 2010
Alpha Chapter Overall Winner of the Delta Omega Honorary Society Scientific Poster Competition, 2010

Exponent Excellence Award, 2006 and 2007

Keck and Mellon Foundation, Environmental Studies Summer Research Fellow, 2002

RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

Grants and Contracts

Received at the University of Minnesota

Grants Currently Funded

External Sources: Federal/National/State

Role: Principal Investigator (UMN subaward)
Name of PI: Jesse E Bell, University Nebraska Medical Center
Source: NASA ROSES21
Title: Identifying Public Health Applications of Satellite-derived Drought Indicators: Improved Monitoring for Respiratory Health
Dates: 2022-2025
Direct Costs: \$242,781 (subaward); 20% Effort

Role: Co-Investigator (UMN subaward)
Name of PI: Paul E Drawz, University of Minnesota School of Medicine

Updated June 2, 2023

Source: Hennepin Healthcare Research Institute
Title: Health Trends Across Communities
Dates: 2022-2024
Direct Costs: \$457,305; 10% Effort

Role: Principal Investigator (UMN subaward)
Name of PI: Jesse Bell, University of Nebraska Medical Center
Source: NOAA/CPO
Title: Evaluation of Drought Indicators for Improved Decision-Making in Public Health and Emergency Preparedness: Reducing Drought's Burden on Health
Dates: 2020-2023
Direct Costs: \$132,981 (subaward); 15% Effort

Role: Co-Investigator
Name of PI: Jennifer Poynter, UMN Medical School Pediatrics
Source: NIH NCI
Type: UG3/UH3 (1UG3CA265791-01)
Title: The 10,000 Families Cohort: a new study to understand the environmental causes of cancer
Dates: 2022-2026
Direct Costs: \$12,711,818; 10% Effort

Internal Source: University of Minnesota

Role: Co-Investigator
Name of PI: Lynette Renner (School of Social Work), Marizen Ramirez (EnHS)
Source: Office of Academic and Clinical Affairs
Type: Faculty Research Development Grant
Title: School-to-Prison Pipeline to Firearm Violence: Risk Factors and Systems Involvement in Minnesota Youth
Dates: 2020-2022
Direct Costs: \$160,575; 0% Effort

Role: Co-Investigator
Name of PI: Mark Periera (EpiCH)
Source: Division of Epidemiology and Community Health
Type: H. Lando Award to Enhance Racial Justice and Equity
Title: Novel methods for measuring urban greenspace exposure and urban greenspace inequities
Dates: 2022-2023
Direct Costs: \$10,000; 0% Effort

Grants Previously Funded and Concluded: University of Minnesota

External Source

Role: Principal Investigator
Name of PI: Jesse Berman, UMN SPH
Source: Great Plains Center for Agricultural Health. CDC NIOSH
Type: Pilot grant
Title: The impact of drought conditions on occupational psychosocial stress among a Midwest farmer cohort

Updated June 2, 2023

Dates: 2019-2021
Direct Costs: \$30,000; 14% Effort

Role: Co-Investigator
Name of PI: Claudia Munoz-Zanzi, UMN SPH
Source: National Center for Emerging and Zoonotic Infectious Disease, CDC
Type: Contract
Title: Laboratory capacity building and implementation of enhanced surveillance for *Leptospirosis* and *Melioidosis* in Puerto Rico

Date: 2018-2021
Direct Costs: \$2,230,000; 10% Effort

Internal Source

Role: Co-Investigator
Name of PI: Jon Oliver, UMN SPH
Source: UMN Office of Vice President of Research
Type: Minnesota Futures Grant
Title: Effect of the microbiome on deer tick range expansion in the Upper Midwest

Dates: 2018-2020
Direct Costs: \$250,000; 7% Effort

Role: Co-PI
Source: Institute for Social Research and Data Innovation
Type: Life Course Center Seed Grant
Title: The impacts of extreme weather on older adults time use

Dates: 2020
Direct Costs: \$16,000; 0% Effort

Role: Principal Investigator
Source: Midwest Center for Occupational Health and Safety
Type: Emerging Issues Award
Title: Using hair as a biological matrix for assessing changes in air pollution exposure and psychosocial stress by occupational type and status during the COVID-19 pandemic

Dates: 2020
Direct Costs: \$5,000; 0% Effort

Role: Co-Investigator
Name of PI: Gillian Tarr, UMN SPH
Source: UMN Office of Vice President of Research
Type: COVID-19 Rapid Response Grant
Title: How much social distance is enough? Family preparedness and responses to non-pharmacologic interventions during the COVID-19 pandemic

Dates: 2020
Direct Costs: \$10,000; 0% Effort

Publications

Book Chapter

1. Tran NL, **Berman JD**. 2006. *Quarantine Stations at Ports of Entry. Appendix E. Microbial threats of public health significance originating in animals or animal products at U.S. ports of entry*. The National Academies Press, Washington, DC.
Role: Data Collection, Data Management, Data Analysis, Draft Manuscript

Refereed/Peer Reviewed Journal Articles (Student authors are asterixed)

1. Fountain-Jones NM, Khoo BS*, Rau A*, **Berman JD**, Burton EN, Oliver JD. (2023). Positive associations matter: biotic associations drive tick microbiome composition. *Molecular Ecology*
Role: Data Collection, Study Design, Interpretation, Review Manuscript
2. Robichaux C*, Aron J*, Wendt CH, **Berman JD**, Rau A*, Bangerter A, Dudley RA, Baldomero AK. (In Press) Sociodemographic and geographic risk factors of all-cause mortality in patients with COPD. *International Journal of Chronic Obstructive Pulmonary Disease*
Role: Study Design, Interpretation, Review Manuscript
3. Imagawa A*, Rushing M, Schott R, Carter A, **Berman JD**. (2023). Using blood lead levels of wildlife sentinels to identify environmental risk factors of lead exposure for public health and wildlife rehabilitation efforts. *Ecotoxicology* 32(3): 357-369.
Role: Conceptualization, Study Design, Interpretation, Review Manuscript
4. Gwon Y, Ji Y*, Bell JE, Abadi A, **Berman JD**, Rau A*, Leeper R, Rennie J. (In Press). The association between drought exposure and respiratory-related mortality in the United States from 2000 to 2018. *International Journal of Environmental Research and Public Health*
Role: Study Design, Interpretation, Review Manuscript
5. Siegel SD, Brooks MM*, **Berman JD**, Lynch SM, Sims-Mourtada J, Schug ZT, Curriero FC. (2023). Residential segregation and triple negative breast cancer: the role of cumulative exposure to neighborhood risk factors. *Cancer Medicine*
Role: Study Design, Interpretation, Review Manuscript
6. Abadi A, Gwon Y, Gribble M, **Berman JD**, Bilotta R, Hobbins M, Bell JE. (2022). Drought and all-cause mortality risk in Nebraska from 1980 to 2014: Risk assessments by age, gender, race, and temporality of drought. *Science of the Total Environment* 840: 156660.
Role: Interpretation, Review Manuscript
7. Tarr GAM, Morris K*, Harding A*, Jacobs S*, Smith K, Church T, **Berman JD**, Rau A*, Ashida S, Ramirez MR. 2022. Cognitive factors influenced physical distancing adherence during the COVID-19 pandemic in a population-specific way. *Plos One*
Role: Data Collection, Review Manuscript
8. Smith ML*, MacLehose R, Chadler JW, **Berman JD**. (2022). Thunderstorms, Pollen and Severe Asthma in a Midwestern, USA Urban environment, 2007-2018. *Epidemiology* 33(5): 624-632.
Role: Conceptualization, Study Design, Interpretation, Review Manuscript
9. Quynh Anh Tran, Vu Thuy Huong Le*, Van Toan Ngo, Thi Hoan Le, Dung T Phung, **Berman JD**, Thi Lien Huong Nguyen. (2022). The association between ambient temperature and hospital admissions of respiratory diseases in the capital city of Vietnam. *Frontiers in Public Health* 10: 903623
Role: Interpretation, Review Manuscript
10. Rau A*, Abadi A, Fiecas MB, Gwon Y, Bell JE, **Berman JD**. (2022). The associations between fine particulate matter (PM_{2.5}) and monthly mortality in 692 U.S. counties, 2000-2018.

Environmental Research: Health

Role: Conceptualization, Study Design, Interpretation, Write/Review Manuscript

11. Vu Thuy HL*, **Berman JD**, Quynh AT, Wattenberg EV, Alexander BH. (2022). The effects of daily temperature on crime events in urban Hanoi, Vietnam using seven years of data (2013-2019). *International Journal of Environmental Research and Public Health*.
Role: Conceptualization, Study Design, Interpretation, Review Manuscript
12. **Berman JD**, Bell J, Ramirez MR, Bilotta R, Gerr FE, Fethke N. 2021. The association between drought conditions and occupational psychosocial stress among U.S. farmers: an occupational cohort study. *Science of the Total Environment* 798:149245
Role: Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
13. Ghazi L*, Drawz P, **Berman JD**. 2021. The association between fine particulate matter (PM2.5) and chronic kidney disease using electronic health record data in urban Minnesota. *Journal of Exposure Science and Environmental Epidemiology* Jun 14;1-7. doi: 10.1038/s41370-021-00351-3
Role: Conceptualization, Study Design, Interpretation, Review Manuscript
14. Nori-Sarma A*, Thimmulappa R, Venkataraman GV, Warren JL, **Berman JD**, Whittaker SD, Kulick ER, Wellenius GA, Rao MV, Bell ML. 2021. NO₂ Exposure and Lung Function Decline in a Cohort of Adults in Mysore, India. *Environmental Research Communications* 3: 055001
Role: Data Analysis, Interpretation, Review Manuscript
15. Rau A*, Munoz-Zanzi C, Schotthoefler AM, Oliver J, **Berman JD**. 2020. Spatio-temporal dynamics of tick-borne diseases in north-central Wisconsin from 2000-2016. *International Journal of Environmental Research and Public Health* 17(14): 5105
Role: Conceptualization, Data Analysis, Study Design, Interpretation, Review Manuscript
16. **Berman JD**, Burkhardt J, Bayham J. 2020. Hot Under the Collar: A 14-Year Association Between Daily Temperature and Violent Criminal Behavior Across 436 U.S. Counties. *Environmental Research* 191: 110181
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
17. **Berman JD**, Ebisu K. Changes in U.S. Air Pollution During the COVID-19 Pandemic. 2020. *Science of the Total Environment* 739: 139864
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
18. Nori-Sarma A*, Thimmulappa R, Venkataraman G, Azis Fauzie A, Dey S, Venkareddy L, **Berman JD**, Lane KE, Fong K, Warren J, Bell ML. 2020. Low-Cost NO₂ Monitoring and Urban Exposure Prediction Using Universal Kriging and Land-Use Regression in Mysore, India. *Atmospheric Environment* 226(1): 117395.
Role: Study Design, Data Analysis, Interpretation, Review Manuscript
19. Burkhardt J, Bayham J, Wilson A, Carter EM, **Berman JD**, O'Dell K, Ford B, Fischer E, Pierce J. 2019. The Effect of Pollution on Aggressive Behavior: Evidence from Wildfires and Crime. *Journal of Environmental Economics and Management* 98: 102267
Role: Data Collection, Data Management, Review Manuscript
20. **Berman JD**, Burkhardt J, Bayham J, Carter EM, Wilson A. 2019. Acute Air Pollution and Risk of Violent Behavior in the United States, 2000-2013. *Epidemiology* 30(6): 799-806.
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript

21. Jin L*, **Berman JD**, Warren JL, Levy JI, Thurston G, Zhang Y, Xu X, Wang S, Zhang Y, Bell ML. 2019. A land use regression model of nitrogen dioxide and fine particulate matter in a complex urban core in Lanzhou, China. *Environmental Research* 177: 108597
Role: Study Design, Data Analysis, Review Manuscript
22. Burkhardt J, Bayham J, Wilson A, **Berman JD**, O'Dell K, Ford B, Fischer E, Pierce J. 2019. The Relationship Between Monthly Air Pollution and Violent Crime Across the United States. *Journal of Environmental Economics and Policy*: 1-18.
Role: Data Collection, Data Management, Review Manuscript
23. Jin L*, **Berman JD**, Zhang L, Thurston G, Zhang Y, Bell ML. 2019. Land use regression study in Lanzhou, China: a pilot sampling and a framework of monitoring network design for understudied areas. *Atmospheric Environment* 210(1): 253-262
Role: Study Design, Data Analysis, Interpretation, Review Manuscript
24. **Berman JD**, Jin L, Bell ML, Curriero FC. 2019. Using geostatistical simulation to inform the quantity and placement of new monitors for a follow-up air sampling campaign. *Journal of Exposure Science and Environmental Epidemiology* 29: 248-257
Role: Data Collection, Data Analysis, Data Management, Study Design, Interpretation, Draft Manuscript
25. Majd E, McCormack M, Davis MF, Curriero FC, **Berman JD**, Connolly F, Leaf PJ, Rule AM, Green T, Clemons-Erby D, Gummerson C, Koehler KA. 2019. Indoor air quality in inner-city schools and its associations with building characteristics and environmental factors. *Environmental Research* 170: 83-91.
Role: Data Analysis, Review Manuscript
26. **Berman JD**, McCormack M, Koehler KA, Connolly F, Clemons-Erby D, Davis MF, Gummerson C, Leaf PJ, Curriero FC. 2018. School Environmental Conditions and Links to Academic Performance and Absenteeism in Urban, Mid-Atlantic Public Schools. *International Journal of Hygiene and Environmental Health*. 221(5):800-808.
Role: Data Collection, Data Analysis, Data Management, Study Design, Interpretation, Draft Manuscript
27. **Berman JD**, Peters TM, Koehler KA. 2018. Optimizing a Sensor Network with Data from Hazard Mapping Demonstrated in a Heavy-Vehicle Manufacturing Facility. *Annals of Work Exposures and Health*. 62(5):547-558.
Role: Data Analysis, Data Management, Study Design, Interpretation, Draft Manuscript
28. **Berman JD**, Ebisu K, Peng RD, Dominici F, Bell ML. 2017. Drought and the Risk of Hospital Admissions and Mortality in Western U.S. Older Adults from 2000 to 2013: a retrospective study. *The Lancet Planetary Health* 1(1):17-25.
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
29. Ebisu K, **Berman JD**, Bell ML. 2016. Exposure to Coarse Particulate Matter During Gestation and Birth Weight in the US. *Environment International* 94:519-524.
Role: Study Design, Interpretation, Review Manuscript
30. **Berman JD**, Breyse PN, White RH, Waugh DW, Curriero FC. 2015. Evaluating Methods for Spatial Mapping: Applications for Estimating Ozone Concentrations across the Contiguous United States. *Environmental Technology and Innovation* 3:1-10.
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft

Manuscript, Review Manuscript

31. Le GE*, Breyse PN, McDermott A, Eftim SE, Geyh A, **Berman JD**, Curriero FC. 2014. Canadian Forest Fires and the Effects of Long-Range Transboundary Air Pollution on Hospitalizations among the Elderly. *ISPRS International Journal of Geo-Information* 3(2):713-731.
Role: Data Analysis, Review Manuscript
32. **Berman JD**, Fann N, Hollingsworth JW, Pinkerton KE, Rom WN, Szema AM, Breyse PN, White RH, Curriero FC. 2012. Health benefits from large scale ozone reduction in the United States. *Environmental Health Perspectives* 120(10): 1404-1410.
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
33. Hoham RW, Frey FM, **Berman JD**, Ryba JB, Duncan JE, Forbes AA, Goodridge BM, Miller PR. 2009. The effects of irradiance level, photoperiod, and cell density on sexual reproduction in the green snow alga, *Chloromonas chenangoensis*, from Upstate New York. *Nova Hedwigia* 89(1):1-16.
Role: Data Collection, Data Management, Data Analysis, Review Management
34. **Berman JD**, McCay TS, Scull P. 2007. Spatial analysis of species richness of shrews (Soricomorpha: Soricidae) in North America north of Mexico. *Acta Theriologica* 52:151-158.
Role: Data Collection, Data Management, Data Analysis, Study Design, Interpretation, Draft Manuscript
35. Hoham RW, **Berman JD**, Rogers HS, Felio JH, Ryba JB, Miller PR. 2006. Two new species of green snow algae from Upstate New York, *Chloromonas chenangoensis* sp. nov. and *Chloromonas tughillensis* sp. nov. (Volvocales, Chlorophyceae) and the effects of light on their life cycle development. *Phycologia* 45(3):319-330.
Role: Data Collection, Data Management, Data Analysis, Draft Manuscript

Refereed/Peer Reviewed Journal Articles Under Review (Student/Postdoctoral Authors are asterixed)

Aron J*, Baldomero A, Wendt C, Rau A, Fiecas M, **Berman JD**. Wintertime mortality associated with acute PM_{2.5} exposure among U.S. Veterans diagnosed with chronic obstructive pulmonary disease (COPD)

Role: Conceptualization, Study Design, Interpretation, Review Manuscript

Cassens J*, Oliver JD, Jarnfeld J, **Berman JD**. Climate determines immature *Ixodes scapularis* ticks pervasiveness across Minnesota's seven-county metropolitan area.

Role: Conceptualization, Study Design, Interpretation, Review Manuscript

Smith ML*, MacLehose R, Wendt CH, **Berman JD**. The sex and age characteristics of thunderstorm asthma emergency department patients from 2007-2018 in Metropolitan Minneapolis St. Paul

Role: Conceptualization, Study Design, Interpretation, Review Manuscript

Vu Thuy HL*, Wattenberg EV, Tran T, **Berman JD**, Quynh AT, Alexander BH. Temperature-related emergency injury visit in Hanoi, Vietnam.

Role: Study Design, Interpretation, Review Manuscript

Rau A, Tarr GAM, Baldomero AK, Wendt CH, Alexander BH, **Berman JD**. Heat and cold wave related mortality risk among United States Veterans with pre-existing chronic obstructive

pulmonary disease (COPD): a case-crossover study.

Role: Conceptualization, Study Design, Interpretation, Review Manuscript

Non-Refereed/Peer Reviewed Journal Articles

Berman JD, Breyse PN, White RH, Curriero FC. 2012. Health-related benefits of attaining the daily and annual PM2.5 air quality standards and stricter alternative standards. Final Report submitted to the American Thoracic Society Health Policy Committee

Role: Data Collection, Data Management, Data Analysis, Interpretation, Data Management

Media and Interviews

Star Tribune. More wildfire smoke is headed for Minnesota's skies — and could keep coming all summer. May 17, 2023. <https://www.startribune.com/more-wildfire-smoke-headed-minnesota-summer-mpca-canada-forecast-asthma-pollution-climate/600275677/>

Snopes. About That Video Showing Ominous Clouds After the Ohio Train Derailment. February 15, 2023. <https://www.snopes.com/news/2023/02/15/video-toxic-clouds-darlington-pa/>

The Oaklandside. Traffic pollution is increasing health care costs for Oakland seniors, study finds. August 31, 2022. <https://oaklandside.org/2022/08/31/study-california-traffic-pollution-health-care-costs-seniors/>

MN Department of Health - Climate and Health Stories. Champion Stories: Jesse Berman <https://www.health.state.mn.us/communities/environment/climate/story/berman.html>

Wicked Local. One rain storm does not cure a drought. In fact, it could make it worse. August 19, 2022. <https://www.wickedlocal.com/story/regional/2022/08/19/one-rain-storm-cannot-cure-drought-water-deficit-too-severe-in-massachusetts-kentucky-umass-lowell/10347849002/>

MinnPost. What a supreme court ruling means for Minnesota and the fight against climate change. July 13, 2022. <https://www.minnpost.com/environment/2022/07/what-a-supreme-court-epa-ruling-means-for-minnesota-and-the-fight-against-climate-change/>

The GW Hatchet. Milken professor publishes study connecting Black mortality to air pollution in D.C. November 22, 2021. <https://www.gwhatchet.com/2021/11/22/milken-professor-publishes-study-connecting-black-mortality-to-air-pollution-in-d-c/>

Drought.gov. “The Links Between Drought and Increased psychosocial stress among U.S. Farmers. October 12, 2021. <https://www.drought.gov/news/links-between-drought-and-increased-psychosocial-stress-among-us-farmers>

Star Tribune. “Minnesota’s bad air days set records for poor air quality.” September 2, 2021. <https://www.startribune.com/minnesota-s-bad-air-days-set-records-for-poor-air-quality/600093360/>

Grist Magazine. “Wildfire smoke in Minnesota brings dystopian skies to the Midwest.” August 4, 2021. <https://grist.org/wildfires/wildfire-smoke-in-minnesota-brings-dystopian-skies-to-the-midwest/>

Minnesota Public Radio News. “Why you should protect yourself from smoky air.” July 30, 2021. <https://www.mprnews.org/story/2021/07/30/heres-why-you-should-protect-yourself-from-smoky-air>

Star Tribune. “No clear answers as Minnesotans brace for several days of smoky skies.” July 31, 2021. <https://www.startribune.com/no-clear-answers-as-minnesotans-brace-for-several-days-of-smoky-skies/600083636/>

Business Insider. “Wildfire smoke could turn this weekend’s full Buck Moon an ominous blood red.” July 23, 2021. <https://www.businessinsider.com/wildfire-smoke-could-turn-full-buck-moon-blood-red-2021-7>

Associated Press News. “Wildfire smoke clouds sky, hurts air quality on East Coast.” July 22, 2021.

<https://apnews.com/article/science-fires-environment-and-nature-wildfires-cebad62e9bf8d5ed295b60fb9b0961fb>

Salon. "Trump's EPA refuses to reduce pollutants linked to coronavirus deaths." October 26, 2020. https://www.salon.com/2020/10/26/trumps-epa-refuses-to-reduce-pollutants-linked-to-coronavirus-deaths_partner/

ProPublica. "The EPA refuses to reduce pollutants linked to coronavirus deaths." October 21, 2020. <https://www.propublica.org/article/the-epa-refuses-to-reduce-pollutants-linked-to-coronavirus-deaths>

BringMeTheNews. "Air pollution in the Twin Cities dropped 20% during COVID-19 shutdown, U of M finds." July 16, 2020. <https://bringmethenews.com/minnesota-news/air-pollution-in-the-twin-cities-dropped-20-during-covid-19-shutdown-u-of-m-finds>

MinnPost. "University of Minnesota study shows declines in air pollution during the COVID pandemic." July 13, 2020. <https://www.minnpost.com/environment/2020/07/university-of-minnesota-study-shows-declines-in-air-pollution-during-the-covid-pandemic/>

WCCO CBS Minnesota. "University of Minnesota researchers find air pollution declines during pandemic." July 13, 2020. <https://minnesota.cbslocal.com/2020/07/13/university-of-minnesota-researchers-find-air-pollution-declines-during-pandemic/>

KIMT3 News. "University of Minnesota finding air pollution declines during COVID-19 pandemic." July 13, 2020. <https://www.kimt.com/content/news/University-of-Minnesota--571753571.html>

Global Citizen. "New Delhi Shut Down Schools in Response to Severe Air Pollution." November 1, 2019. <https://www.globalcitizen.org/en/content/new-delhi-schools-shut-down-air-pollution>

The Economist. "Exposure to air pollution is linked to an increase in violent crime." October 9, 2019. <https://www.economist.com/graphic-detail/2019/10/09/exposure-to-air-pollution-is-linked-to-an-increase-in-violent-crime>

FOX 9 News. "Air Pollution Linked to Violent Behavior, says University of Minnesota Study." September 10, 2019. <https://www.fox9.com/video/603682>

Duluth News Tribune. "Air pollution and violence linked." September 14, 2019. <https://www.duluthnewstribune.com/lifestyle/health/4660608-Air-pollution-and-violence-linked>

CBS Minnesota. "Researchers Link Air Pollution To Increases In Violent Criminal Behavior." September 10, 2019. <https://minnesota.cbslocal.com/2019/09/10/researchers-link-air-pollution-to-increases-in-violent-criminal-behavior/>

Kanebec County Times. "Minnesota air quality good but be alert for high pollution events." July 22, 2019. http://www.moraminn.com/news/minnesota-air-quality-good-but-be-alert-for-high-pollution/article_2a4e1522-a8a3-11e9-bad3-ebd23bb4fb13.html

UMN Experts. "Talking Minnesota Air Quality with UMN." July 10, 2019. <https://twin-cities.umn.edu/news-events/talking-minnesota-air-quality-u-m>

Global Citizen. "Air Pollution Is Killing More People Than Previously Thought: Study" March 13, 2019. <https://www.globalcitizen.org/en/content/air-pollution-deaths-globally/>

Grand Forks Herald. "Everyday choices can affect carbon emissions." December 22, 2018. <https://www.grandforksherald.com/news/science-and-nature/4545963-everyday-choices-can-affect-carbon-emissions>

Minnesota Daily. "Wildfire Smoke Impacts University of Minnesota Student Health." September 4, 2018. <http://www.mndaily.com/article/2018/09/n-wildfire-smoke-impacts->

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[university-of-minnesota-student-health](#)

UMN Experts. "Recent Data Points to Fatal Aspects of Air Pollution." May 10, 2018. <https://twin-cities.umn.edu/news-events/umn-expert-recent-data-points-fatal-aspects-air-pollution>

Balbus J. 2017. Commentary: Understanding Drought's Impacts on Human Health. *The Lancet Planetary Health* 1(1):e12.

"Droughts Tied to Climate Change Could Bring Health Risks for Seniors." April 5, 2017. Published in numerous outlets, including *Bismarck Tribune*, *Corvallis Gazette Times*, *Lincoln Journal Star*, *Nature World News*, *Philadelphia Inquirer*, *St. Louis Post Dispatch*, *U.S. News & World Report*, *WebMD*

MedPage Today. "Drought in Western US Led to Increase in Deaths." April 5, 2017. <https://www.medpagetoday.com/publichealthpolicy/environmentalhealth/64375>

Media Matters for America. "A Sad and Shallow Screed: Experts Tear Apart WSJ Op-Ed Denying Health Benefits of Reducing Smog Pollution." September 4, 2015. <http://mediamatters.org/research/2015/09/04/a-sad-and-shallow-screed-experts-tear-apart-wsj/205370>

Johns Hopkins Public Health Magazine. "Ozone's Unnecessary Toll." Fall 2012. http://magazine.jhsph.edu/2012/fall/news_briefs/ozones-unnecessary-toll/

U.S. News & World Report. "Reducing Ozone Limits would Save Lives, Report States." July 18, 2012. <http://health.usnews.com/health-news/news/articles/2012/07/18/reducing-ozone-limits-would-save-lives-report-states>

Invited Presentations at Professional Meetings, Conferences, etc.

Internal Seminars - University of Minnesota (Student/trainee presenter is underlined)

Berman JD. Using spatial tools to link electronic health records with environmental and place-based information. Center for Clinical Quality and Outcomes Discovery and Evaluation (C-QODE) at the University of Minnesota School of Medicine. February 2022.

Tarr GA and **Berman JD.** Patterns of psychological distress during the COVID-19 pandemic. Minnesota Population Center/OVPR Rapid Response Grants. November 2020.

Berman JD. Spatial methods to evaluate health disparities and vulnerability with case-control data. Health Equities Working Group Spring Meeting. February 2020.

Berman JD. The impact of climate change on human health. Healthy Futures Summit at the University of Minnesota School of Public Health. December 2019.

Berman JD. Getting Hot Under the Collar: Does air pollution exposure and temperature increase the risk of violent behavior? Division of Biostatistics Seminar. October 2019.

Berman JD. Air pollution exposure and the increased risk of violent behavior: evidence from 14-years of U.S. crime data. University of Minnesota Population Center Seminar. February 2019.

Berman JD. *Are Air Pollutants Linked to Violent Behavior? Evaluating Population-Wide Environmental Exposures.* Epidemiology and Community Health Seminar. September 2018.

Berman JD. *Drought and Health Risks in U.S. Older Adults.* University of Minnesota School of Public Health Research Day. April 2018.

External Seminars – Professional Meetings and Conferences

Berman JD. Association between drought conditions and occupational psychosocial stress among a Midwestern farmers cohort. International Society for Environmental Epidemiology (ISEE). August 2021.

Berman JD. *Scoring Methodology for Drought Indicators.* National Integrated Drought Information System. May 2021

Berman JD. *The Existing Challenges and Opportunities in Drought and Health Research.* Society for Epidemiological Research. December 2020

Berman JD. *Chronic kidney disease in urban Minnesota: spatial patterns and environmental risk factors.* Johns Hopkins University GIS Day. Baltimore, MD. November 2020

Berman JD. Exploring the association between drought and health: psychosocial stress in farmers. International Society of Environmental Epidemiology (ISEE). August 2020.

Berman JD. *Exploration of Ticks and Tickborne Disease Using Environmental Epidemiology.* Minnesota Tick and Tickborne Pathogen Symposium. Minneapolis, MN. March 2020

Berman JD. *Getting Hot Under the Collar: Air Pollution, Temperature, and Violent Behavior.* Minnesota Environmental Health Association. St. Paul, MN. January 2020

Berman JD. *The Complexity of Drought and Health Research.* Midwest Drought and Human Health Workshop. St. Paul, MN. November 2019.

Berman JD. *Evaluating the Drought and Health Relationship: Association with Mortality.* National Drought and Public Health Summit. Atlanta, GA. June 2019.

Berman JD, Burkhardt J, Bayham J, Ellison C, Wilson A. Acute air pollution exposure, temperature, and the risk of violent behavior in the United States. ISEE Conference. Utrecht, Netherlands. August 2019

Berman JD, Jin L, Bell ML, Curriero FC. *Using Geostatistical Simulation to Inform the Quantity and Placement of New Monitors for a Follow-up Air Sampling Campaign.* ISES/ISEE Joint Conference; Advances in Air Pollution Modeling. August 2018

Berman JD, McCormack M, Koehler KA, Connolly F, Clemons-Erby D, Davis MF, Gummerson C, Leaf PJ, Curriero FC. *School environment and links to student performance in an urban, mid-Atlantic Region.* International Society of Exposure Science [ISES]; Environmental Justice. October 2017

Berman JD, Ebisu K, Dominici F, Peng RD, Bell ML. *Drought and the Risk of Hospital Admissions and Mortality in Western U.S. Older Adults from 2000 to 2013: a retrospective study.* International Society of Exposure Science [ISES]; Climate Change. October 2017

Berman JD, Ebisu K, Dominici F, Peng RD, Bell ML. *Drought and the Risk of Hospital Admissions and Mortality in Western U.S. Older Adults from 2000 to 2013: A Retrospective study.* Planetary Health/GeoHealth Annual Meeting. April 2017.

Berman JD, Ebisu K, Dominici F, Wang Y, Peng RD, Bell ML. *Drought Events and the Risk of Emergency Room Hospitalizations and Mortality in the western US.* Symposium on Climate Change and Health; Yale Climate Change and Energy Initiative [YCEI]. April 2016.

Berman JD, Ebisu K, Dominici F, Wang Y, Peng RD, Bell ML. *Drought Events and the Risk of Emergency Room Hospitalizations and Mortality in the western United States Elderly Population, 2000-2013*. The International Society of Exposure Science [ISES] Conference; Epidemiological Investigations - II. October 2015

Berman JD, Breyse PN, White RN, Waugh DW, Curriero FC. *Effects of city specific data on health impact assessments of reduced ozone concentrations*. International Society of Environmental Epidemiology [ISEE] Conference; Health Impact Assessment in Air Pollution Session. August 2014

Berman JD, Breyse PN, White RN, Waugh DW, Curriero FC. *Effects of city specific data on health impact assessments of reduced ozone concentrations*. International Society of Environmental Epidemiology [ISEE] Conference; Health Impact Assessment in Air Pollution Session. August 2014

Berman JD. *Air Pollution and Improved Characterization of Exposure through Spatial Statistics*. Yale Institute for Biospheric Studies and Environmental Research Center Seminar Series. February 2014.

Berman JD. *The Role of Mapping and GIS in Public Health: A Perspective of Ozone Air Pollution*. Program for Environmental Studies Seminar, Colgate University. February 2013.

Berman JD, Fann N, Hollingsworth JW, Pinkerton KE, Rom WN, Szema AM, Breyse PN, White RH, Curriero FC. *Assessing the Health Benefits of Nationwide Reductions in Ozone Air Pollution*. The American Thoracic Society 2010 International Conference; New Treatment Approaches for Lung Disease: Late Breaking Abstracts. May 2010.

Berman JD. *The Health Benefits of Nationwide Reductions in Ozone Air Pollution*. Johns Hopkins Bloomberg School of Public Health Department of Environmental Health Sciences Research Retreat. January 2010.

Invited Presentations at State/Federal Agencies

Berman JD. *Can Air Pollution Talks Also be Mixtures? Recent Advances in Health Effects Research and New Methods for Sampling Campaigns*. State of Minnesota Pollution Control Agency. September 2019.

Contributed Papers Presented at Professional Meetings, Conferences, etc. (Student/trainee presenter is underlined)

Robichaux C, Rau A, **Berman JD**, Wendt C, Bangerter A, Baldomero AK. Sociodemographic and Geographic Determinants of All-Cause Mortality Among Veterans with COPD in National VA Data. American Thoracic Society (ATS). May 2022.

Robichaux C, Aron J, Wendt C, **Berman JD**, Baldomero AK. Effects of sociodemographic and geographic risk factors and PM_{2.5} exposure on all cause mortality in COPD. Respiratory Disease Young Investigators Forum. October 2022.

Smith ML, MacLehose RF, Wendt CH, **Berman JD**. Sex and Age Characteristics of Thunderstorm Asthma Emergency Department Visits from 2007-2018 in a Midwest Metropolitan Environment. International Society for Environmental Epidemiology (ISEE). September 2022.

Saha S, **Berman JD**, Abadi A, Augustinavicious J, Henderson J. Impacts of Extreme Weather on Mental Health and Advances in Infectious Disease Predictions and Pandemic Preparedness and Prevention Including COVID-19. American Meteorological Society (AMS). January 2021.

Smith ML. Thunderstorms, pollen and severe asthma in a Midwestern, USA urban environment, 2007-2018. International Society for Environmental Epidemiology (ISEE). August 2021

McCormack M, Connolly F, Rule AM, Davis MF, Majd E, Curriero FC, Wu D, Clemons- Erby D, Leaf PJ, **Berman JD**, Koehler KA. *School Environment, Indoor Air Quality, Student Performance and Health*. ISES/ISEE Joint Conference; Healthy Schools. August 2018

Jin L, **Berman JD**, Huang K, Zhang Y, Xu X, Bell ML. *Monitoring Network Design for a Land Use Regression Study in Lanzhou, China*. International Society of Environmental Epidemiology [ISEE] Conference; Health Impact Assessment in Air Pollution Session. August 2016

Poster Presentations (Student presenter is underlined)

Correll C, Rau A, **Berman JD**. Juvenile Arthritis in Minnesota: Geospatial Variability and Environmental Exposures in Juvenile Idiopathic Arthritis. Pediatric Rheumatology Symposium.

Rau A, Abadi A, Fiecas M, Gwon Y, Bell JE, **Berman JD**. Nationwide assessment of ambient monthly fine particulate matter and its associations with total, cardiovascular, and respiratory mortality in the United States. International Society for Environmental Epidemiology (ISEE). September 2022.

Abadi A, Munde S, **Berman JD**, Gwon Y, Bell JE. Associations between drought exposure and risk of suicide in the United States from 2000 to 2018. American Geophysical Union (AGU). December 2022.

S Munde, JE Bell, R Leeper, J Rennie, **Berman JD**, AM Abadi, Y Gwon. A Comparative Review of Drought Metrics for Public Health Research Applications. American Geophysical Union. Fall 2021.

Berman JD, Burkhardt J, Bayham J. Hot under the collar: the association between daily temperature and temperature deviations with violent criminal behavior. International Society of Environmental Epidemiology (ISEE). August 2020.

Ghazi L, Drawz PE, **Berman JD**. Fine particulate matter is associated with chronic kidney disease: findings using electronic health record data. International Society of Environmental Epidemiology (ISEE). August 2020.

Berman JD, Burkhardt J, Bayham J, Ellison C, Wilson A. Acute air pollution exposure and the Risk of Violent Behavior: a 14-Year Longitudinal Assessment. Society for Epidemiologic Research Conference (SER). June 2019

Rau A, Munoz-Zanzi C, **Berman JD**. Characterizing Leptospirosis vulnerability in Puerto Rico. UMN SPH Research Day. April 2019

Gummerson C, **Berman JD**, McCormack M, Koehler KA, Connolly F, Clemons-Erby D, Davis MF, Leaf PJ, Curriero FC. *School Environmental Conditions and Links to Academic Performance and Absenteeism in Urban, Mid-Atlantic Public Schools*. EPA Science to Achieve Results (STAR) Healthy Schools Meeting. November 2017

Berman JD, Peters TM, Koehler KA. *Optimizing a Sensor Network with Data from Hazard Mapping Demonstrated in a Heavy-Vehicle Manufacturing Facility*. International Society of Exposure Science [ISES]. October 2017

Berman JD, Breyse PN, White RH, Bell ML, Curriero FC. *Effects of city-specific data on health impact assessments of reduced ozone concentrations in 44 U.S. cities*. International Society of Exposure Science [ISES]. October 2014

Berman JD, Waugh DW, Breyse PN, White RH, Curriero FC. *Improved spatial prediction of ozone air pollution using CMAQ model data and spatial statistical methodology*. Chesapeake American Industrial Hygiene Association/American Society of Safety Engineers [AIHA/ASSE] Professional Development Conference. March 2013

Berman JD, Waugh DW, Breyse PN, White RH, Curriero FC. *Improved spatial prediction of ozone air pollution using CMAQ model data and spatial statistical methodology*. International Society of Exposure Science [ISES]. October 2012

Berman JD, Curriero FC, White RH, Breyse PN. *Assessing the health benefits from nationwide reductions of ozone air pollution*. American Public Health Association [APHA]. November 2010, Denver, CO [Invited]

Berman JD, Curriero FC. *Assessing the health benefits from nationwide reductions of ozone air pollution*. Johns Hopkins University Delta Omega Scientific Poster Competition. February 2010

Tran NL, **Berman JD**, Barraj LM, Alexander TM. *Soy protein consumption and cardiovascular disease risk factors*. 6th International Symposium on the Role of Soy in Preventing and Treating Chronic Disease. November 2005

Berman JD, Scull P, McCay TS. 2004. *Environmental Influence on regional (Gamma) Shrew Diversity in North America*. American Society of Mammalogists [ASM]. June 2004

Duncan JE, Gerken NE, Forbes AA, Goodridge BM, **Berman JD**, Miller PR, Ryba JB, Hoham RW. 2003. *The Effects of Light and Cell Density on Sexual Reproduction in a Homothallic Species of the Green Snow Alga, Chloromonas*. North East Algal Society [NEAS]. April 2003

TEACHING AND CURRICULUM DEVELOPMENT

University of Minnesota

Courses Taught at University of Minnesota School of Public Health

Semester/Year	Course, Title, Description	Role, # Students, Credits
Spring 2023	PubH 8120; Occupational and Environmental Health Sciences Research Seminar	Co-Instructor; 12 students
Spring 2022	PubH 8120; Occupational and Environmental Health Sciences Research Seminar	Co-Instructor; 16 students; 1 credit
Fall 2022	PubH 6141; GIS & Spatial Analysis for Public Health	Sole Instructor; 28 students; 3 credits
Spring 2022	PubH 8120; Occupational Health & Safety Research Seminar	Co-Instructor; 12 students; 1 credit
Fall 2021	PubH 6141; GIS & Spatial Analysis for Public Health	Sole Instructor; 26 students; 3 credits
Spring 2020	PubH 8120; Occupational Health & Safety Research Seminar	Co-Instructor; 16 students; 1 credit
Fall 2020	PubH 6141; GIS & Spatial Analysis for Public Health	Sole Instructor; 27 students; 3 credits
Fall 2020	PubH 8120; Occupational Health & Safety Research Seminar	Co-Instructor; 19 students; 1 credit
Spring 2020	PubH 8120; Occupational Health & Safety Research	Co-Instructor; 16 students;

	Seminar	1 credit
Fall 2019	PubH 6100; GIS & Spatial Analysis for Public Health	Sole Instructor; 16 students; 3 credits
Fall 2019	PubH 8120; Occupational Health & Safety Research Seminar	Co-Instructor; 19 students; 1 credit
Fall 2018	PubH 6100; GIS & Spatial Analysis for Public Health	Sole Instructor; 17 students; 3 credits

Course Development at University of Minnesota School of Public Health

Fall 2018 PubH 6100: GIS & Spatial Analysis for Public Health. Sole Instructor; 3 credits
An introduction to Geographic Information Systems (GIS) and applied spatial data analysis for public health research

Collaborative Efforts and Activities

Guest Lecture Activities

Spring 2023	PubH6140: Occupational and Environmental Epidemiology <i>Methods for handling time correlated data</i>	UMN School of Public Health	14 students; 2 credits
Spring 2023	PubH6100: Applied Analysis of Population-level Health Data <i>Time Series Analysis with Population-Level Data</i>	UMN School of Public Health	6 students; 2 credits
Spring 2023	PubH6100: Applied Analysis of Population-level Health Data <i>Global Measures of Spatial Correlation with Environmental Health Data</i>	UMN School of Public Health	6 students; 2 credits
Spring 2023	PH601.805.86: Spatial Analysis Journal Club <i>Geostatistical modeling methods</i>	Johns Hopkins School of Public Health	25 students; 2 credits
Spring 2022	PA5209: Urban Planning and Health Equity <i>Introduction to health effects of air pollution</i>	UMN Humphrey School of Public Affairs	25 students; 3 credits
Spring 2022	EH590R: Planetary Health Seminar	Emory School of Public Health	24 students; 2 credits
Spring 2022	PubH6150: Interdisciplinary Evaluation of Occupational Health and Safety Field Problems <i>Analysis methods for environmental health and occupational research</i>	UMN School of Public Health	26 students; 3 credits
Spring 2022	PH601.805.86: Spatial Analysis Journal Club <i>Geostatistical modeling methods</i>	Johns Hopkins School of Public Health	19 students; 2 credits
Fall 2021	PubH 6102: Issues in Environmental and Occupational Health <i>Research Video Discussion</i>	UMN School of Public Health	Co-Instructor; 2 credits
Spring 2021	PH601.805.86: Spatial Analysis Journal Club <i>Geostatistical modeling methods</i>	Johns Hopkins School of Public Health	Co-Instructor; 23 students; 2 credits
Fall 2020	PH601.731.86: Spatial Analysis for Public	Johns Hopkins School	Co-Instructor; 4

	Health <i>GIS and ozone air pollution impacts</i>	of Public Health	credits
Spring 2020	PA 5209: Urban Planning & Health Equity	UMN Humphrey School of Public Affairs	Sole Instructor; 12 students; 3 credits
Spring 2020	PubH 6140: Occupational and Environmental Epidemiology <i>Advanced Temporal and Spatial Methods</i>	UMN School of Public Health	Sole Instructor;
Spring 2020	PH601.805.86: Spatial Analysis Journal Club <i>Geostatistical modeling methods</i>	Johns Hopkins School of Public Health	Co-Instructor; 19 students; 2 credits
Fall 2019	PubH 3107: Global Public Health & the Environment <i>Overview of air pollution and public health</i>	UMN School of Public Health	Sole Instructor 58 students; 2 credits
Fall 2019	PH601.731.86: Spatial Analysis for Public Health <i>GIS and ozone air pollution impacts</i>	Johns Hopkins School of Public Health	Co-Instructor; 4 credits
Spring 2019	PubH 8120: Occupational Health & Safety Research Seminar <i>Successfully attending scientific conferences</i>	UMN School of Public Health	Sole Instructor 24 students; 1 credit
Spring 2019	PH7309: GIS and Public Health <i>Geostatistics and air pollution</i>	SUNY Albany School of Public Health	Sole Instructor 25 students; 4 credits
Spring 2019	PH601.805.86: Spatial Analysis Journal Club <i>Air pollution modeling methods</i>	Johns Hopkins School of Public Health	Co-Instructor; 2 credits
Fall 2018	PubH 8120: Occupational Health & Safety Research Seminar <i>Overview of air pollution and violence</i>	UMN School of Public Health	Sole Instructor 23 students; 1 credit
Fall 2018	PH601.731.86: Spatial Analysis for Public Health <i>GIS and ozone air pollution impacts</i>	Johns Hopkins School of Public Health	Co-Instructor; 4 credits
Spring 2018	W272B 001: Applied GIS for Public Health Practice <i>Intro to GIS and applied spatial methods</i>	University of California at Berkeley School of Public Health	Co-Instructor; 17 students; 3 credits
Spring 2018	PubH 6100-003: Topics in Environmental Health: Science Politics and Policy. <i>Air pollution exposure measures</i>	UMN School of Public Health	Sole Instructor 40 students; 3 credits
Spring 2018	PH601.805.86: Spatial Analysis Journal Club <i>Air pollution modeling methods</i>	Johns Hopkins School of Public Health	Co-Instructor; 2 credits
Fall 2017	PH601.731.86: Spatial Analysis for Public Health <i>GIS and ozone air pollution impacts</i>	Johns Hopkins School of Public Health	Co-Instructor; 4 credits

Professional Development in Teaching

Spring 2022

“Teaching Modern GIS: Faculty Panel.” ESRI Corporation

Spring 2019

“Write Winning NIH Grant Proposals.” Grants Writers Seminars and Workshops

ADVISING AND MENTORING*University of Minnesota***Graduate Student Advising Masters Level (MPH/MS)**

Student	Degree	Program	Role	Year Finished
Sarah Eckerman	MPH	EnHS	Committee Member	2018
Jacob Anderson	MPH	EnHS	Committee Member	2018
Natalie Bontrager	MPH	EpiCH	Committee Member	2019
Yuko Ekyalongo	MPH	EnHS	Project Advisor	2019
Hannah Young	MPH	EnHS	Project Advisor	2020
Austin Rau	MPH	EnHS	Academic and Project Advisor	2020
Maya Rivera	MPH	EnHS	Committee Member	2021
Corina Tibbitts	MPH	EnHS	Committee Member	2021
Gabrielle Johnson	MPH	EnHS	Academic Advisor	2022
Zachary Zirnhelt	MPH	EnHS	Academic and Project Advisor	2023
Jaime Rich	MPH	EnHS	Academic Advisor	2023
Jill Feinstein	MPH	EnHS	Academic Advisor	Active
Jonathan Evans	MPH	EnHS	Academic Advisor	Active
Myra McKee	MPH	EnHS	Academic Advisor	Active
Cecilia Pigozzi	MS	EnHS	Academic and Project Advisor	2021
Mito Imagawa	MS	EnHS	Project Advisor	2021
Jacob Cassens	MS	EnHS	Academic and Project Advisor	NA
Brenna Horn	MS	HSRPA	Committee Member	2022
Matt Olson	MS	EnHS	Project Advisor	Active

Graduate Student Advising Doctorate Level (PhD)

Student	Program	Role	Year Finished	Professional Position
Morrison ‘Luke’ Smith	EpiCH	Advisor	2022	Assistant Research Professor, Penn State University
Austin Rau	EnHS	Advisor	Active	--
Marie Claire Meadows	EnHS	Advisor	Active	--
Vu Thuy Huong Le	EnHS	Co-Advisor	2022	Postdoctoral Researcher, Fred Hutchinson Cancer Center
Yan Li	Comp. Sci	Committee	2022	Scientist, Amazon.com
Alyson Harding	EnHS	Committee	Active	--
Benedict Khoo	EnHS	Committee	Active	--
Christine Prissel	EpiCH	Committee	Active	--

Postdoctoral Advising

Advisee	Funding Support	Role	Year Finished	Professional Position
Amanda Gorton, PhD	Grand Challenges in Biology Fellow	Postdoctoral Advisor	2022	Regulatory Analyst; Minnesota Pollution Control Agency
Camille Robichaux, MD	Lung Biology UMN T32 Trainee	Postdoctoral Advisor	Active	--

Other Advising

Program	Role	Year Finished
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Ria Thakker	Honors Mentor Connection (Wayzata High School)	Research Mentor	2022
Bharat Baylan	U.S. Centers for Disease Control ORISE Fellow	Research Mentor	Active

Informal Advising

Student	Degree	Program	Role	Year Finished
Jordan Aron	PhD	Biostats	Co-Research Advisor	Active
Amanda Thomas	PhD	EpiCH	Research Advisor	Active
Christine Prissell	PhD	EpiCH	Research Advisor	Active
Lama Ghazi	PhD	EpiCH	Research Advisor	2020

SERVICE AND PUBLIC OUTREACH

Service to The Discipline/Profession/Interdisciplinary Area(s)

Journal Editorships

Guest Editor. *International Journal of Environmental Research & Public Health* (2019-2020)
Special Issue on 'GIS and Spatial Modeling for Environmental Epidemiology'

Journal Reviewer Experience

American Journal of Epidemiology	2018-Present
Atmosphere	2020-Present
Atmospheric Environment	2013-Present
BMJ Open	2018-Present
Climatic Research	2021-Present
Disaster Medicine & Public Health Research	2019-Present
Environmental Health	2014-Present
Environmental Health Perspectives	2012-Present
Environmental Pollution	2020-Present
Environment International	2021-Present
Environmental Research	2016-Present
Environmental Science and Technology	2014-Present
Environmental Science and Technology Letters	2020-Present
GeoHealth	2022-Present
International Journal of Biometeorology	2019-Present
International Journal of Environmental Research & Public Health	2015-Present
International Journal of Epidemiology	2020-Present
International Journal of Geo-Information	2020-Present
Journal of the American Medical Association	2019-Present
JAMA Network Open	2021-Present
Journal of Clinical & Translational Science	2019-Present
Journal of Exposure Science & Environmental Epidemiology	2019-Present
Journal of Research in Crime and Delinquency	2020-Present
Journal of Urban Health	2020-Present
The Lancet Planetary Health	2018-Present
Nature Climate Change	2014-Present
Paediatric and Perinatal Epidemiology	2020-Present
PLOS Computational Biology	2020-Present
PLOS One	2015-Present
Population Health	2021-Present

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Remote Sensing	2019-Present
Science of the Total Environment 2017 Outstanding Reviewer (top 10 th percentile)	2015-Present
Scientific Data	2021-Present

Book Publishing Reviewer Experience

Springer Books: Authored Monographs	2019-Present
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Peer Review Panels for External Funding Agencies

<i>Scientific Review.</i> Maternal and Infant Environmental Health Riskscape (MIEHR) Research Center	2022-Present
<i>Scientific Review.</i> Great Plains Center for Agricultural Health	2021-Present
<i>Study Section Review.</i> NIH: National Eye Institute: K99/R00	2021-Present
<i>Scientific Review.</i> Guggenheim Foundation	2021-Present
The India Alliance: Early Career Fellowship Awards	2019-Present

Service to The University/College/Department

University of Minnesota

University-wide service

Search Committee Member. Dean of the School of Public Health, 2022
Grant Peer Reviewer. Minnesota Population Center, 2020
Scientific Review Board. Pilot Projects Research Training Program Midwest Center for Occupational Health & Safety, 2017-Present
Member. Minnesota Population Center, 2019-Present
Review Board. President's Postdoctoral Fellowship Program, 2018-Present
Member. Exposure Science & Sustainability Institute [ESSI]. University of Minnesota, 2017-Present

Service to the School of Public Health

Committee Member. School of Public Health Research Committee, 2022-Present
Lead Moderator, Health Equities Working Group Journal Club, 2022-Present
Moderator, Health Equities Working Group Health Disparities roundtable, 2022
Co-Manager. Junior Faculty Lunch Discussions, 2021-Present
Member. Diversity Equity and Inclusion Action Alignment Team, 2021
Search Committee Member. EnHS Division Chair Search, 2021
Committee Member. Climate Change and Health Minor Program Development Group, 2020
Search Committee Member. Associate Dean of Faculty Affairs, 2020
Abstract Reviewer. Judging Committee for School of Public Health Research Day, 2019
Committee Member. Committee on Training in Public Health Informatics

Division Service to Environmental Health Sciences

Search Committee Member. Industrial Hygiene Assistant/Associate Professor Faculty Search, 2022
Member. EnHS Research Committee, 2022
Member. Diversity Equity and Inclusion Division Team, 2021-Present
Member. EnHS Vision Committee, 2021
Committee Member. EnHS Recruitment Strategy Group, 2020
Search Committee Member. Global Food Ventures Assistant Professor Faculty Search, 2019
Search Committee Member. Global Food Ventures Associate/Full Professor Faculty Search, 2019
Committee Member. Climate Change and Health Concentration Exploratory Group, 2019
"Why Minnesota?" Presentation to prospective students in Environmental Health Sciences,

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University of Minnesota, 2019
“Why Minnesota?” Presentation to prospective students in Environmental Health Sciences,
University of Minnesota, 2018

Johns Hopkins School of Public Health

Collegiate Service

Affiliated Member. Spatial Science for Public Health Center. Johns Hopkins
Bloomberg School of Public Health, 2017-Present
Treasurer, Environmental Health Sciences Student Organization, 2009-2012

Public (Non-University) and Other Service

Service to the State of Minnesota

External Peer Reviewer. “Life and Breath Report.” Minnesota Department of Health and
Minnesota Pollution Control Agency, 2019

Service at the National Level

Committee Member. Drought and Public Health Advisory Commission. National Integrated
Drought Information Systems Midwest Regional planning group, 2019

Service to Private Entities

Abstract Reviewer. International Society for Environmental Epidemiology North America
Conference, 2022, 2023
Symposium Moderator. ‘Environmental Exposure Assessment.’ International Society for
Environmental Epidemiology Annual Conference, 2021
Epidemiological Consultant. Unpaid advice and guidance on re-opening during the COVID-19
pandemic. Boulder Outdoor Survival School (BOSS), Boulder, Utah. Spring 2020.

DIVERSITY, EQUITY, AND INCLUSION EFFORTS

Service Related to DEI

2021-2023	Committee Member: Diversity Equity and Inclusion Team. Division of Environmental Health Sciences
2021	Member: Diversity Equity and Inclusion Action Alignment Team. University of Minnesota School of Public Health

Professional Development Courses Related to DEI

Fall 2021	“Addressing implicit bias and microaggressions.” Section 059. University of Minnesota Office for Equity and Diversity
Fall 2021	“Navigating Challenging Conversations.” Section 056. University of Minnesota Office for Equity and Diversity
Fall 2021	“Teaching with Intention: Navigating challenging conversations in the classroom.” Section 012. University of Minnesota Office for Equity and Diversity