

Curriculum Vitae
Devon Payne-Sturges, Dr.P.H., M.P.H., M.Engr.

Notarization. I have read the following and certify that this *curriculum vitae* is a current and accurate statement of my professional record.

Signature 

Date January 1, 2025

PERSONAL INFORMATION

Professor
Department of Environmental Health Sciences
School of Public Health
University of Michigan, Ann Arbor
1415 Washington Heights
Ann Arbor, MI

Professional and Project Websites

<https://www.devonpayne-sturges.com/>
<https://www.respirarproject.org/>

Researcher IDs

Google Scholar: <https://scholar.google.com/citations?user=IFx4ZQ0AAAAJ&hl=en>
ORCID: <http://orcid.org/0000-0001-7343-2814>

ACADEMIC APPOINTMENT

- 1/25 – present Professor, Department of Environmental Health Sciences, School of Public Health, University of Michigan, Ann Arbor, MI.
- 8/20 – 12/24 Associate Professor, Maryland Institute for Applied Environmental Health, School of Public Health, University of Maryland, College Park, MD.
- 1/21 – 12/24 Secondary appointment, Department of Epidemiology and Public Health, UMB School of Medicine, Baltimore, MD.
- 8/14–8/20 Assistant Professor, Maryland Institute for Applied Environmental Health, School of Public Health, University of Maryland, College Park, MD.

Faculty Associate, Maryland Population Research Center, University of Maryland
Faculty Affiliate, Center on Young Adult Health and Development, University of Maryland
Faculty Member, Neuroscience and Cognitive Science (NACS) program, University of Maryland
Faculty Affiliate, the Consortium on Race, Gender and Ethnicity, University of Maryland
Associate Investigator, The Adolescent Brain Cognitive Development (ABCD) Study Consortium

PROFESSIONAL EMPLOYMENT

- 7/08 – 7/14 Assistant Center Director for Human Health, GS-0601-15, Health Research and Fellowships Division, National Center for Environmental Research (NCER), U.S. Environmental Protection Agency, Washington, DC.

Managed, directed and administered NCER's extramural human health Science to Achieve Results (STAR) research program including developing and determining expenditures for \$17 million annual extramural budget, directing and mentoring scientific staff members, including 5

project officers, 3 research fellows, and 4 student interns, and overseeing approximately 65 active research grants and interagency agreements. Key accomplishments include conceptualizing and leading several large national symposia covering a variety of environmental health and science policy topics that have shaped research directions at U.S. EPA: environmental justice and health disparities (March 2010), children's environmental health research and clinical practice (October 2010), methods for cumulative risk (May 2012), environmental hazards and social stressors (May 2012); and leading strategic planning and visioning process that resulted in a new U.S. EPA extramural research initiative, Environment, Health and Society (EHS), with a 10 year research plan that focuses on linkages between environmental conditions, social forces, sustainability and human health. As a member of U.S. EPA's Risk Assessment Forum, I authored chapter on assessing racial, ethnic and social class disparities for the Agency's Guidelines for Human Exposure Assessment and Monitoring.

5/04 – 7/08

Regulatory and Data Team Leader GS-1301- 14, Office of Children's Health Protection and Environmental Education, U.S. Environmental Protection Agency, Washington, DC.

Identified, tracked, researched and responded to critical regulatory and science policy issues at U.S. EPA that impact children's health. Key accomplishments include development of a rule writers' guide that enabled U.S. EPA program offices to more carefully consider children's health in rule making; communication materials on children's environmental health disparities; incorporation of unique exposure pathways among farmworker and farmworker families in U.S. EPA regulatory analysis so that a U.S. EPA revision to worker protection standards protected children's health; and hosting an interdisciplinary technical workshop on tools for characterizing interactions between the social and physical environment that may lead to health disparities and approaches for tracking environmental health disparities, especially among children.

1/02 – 5/04

Public Health Scientist GS-1301-13, National Center for Environmental Economics, Office of Policy, Economics and Innovation, U.S. Environmental Protection Agency, Washington, DC.

Conducted original research on environmental health issues to inform policy development and provide guidance on science policy at U.S. EPA.

1/00 – 1/02

Study Manager and Research Scientist, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD.

Responsible for the management of a \$150,000 community-based environmental exposure study in two Baltimore city sites.

1/98 – 1/00

Assistant Health Commissioner for Environmental Health, Baltimore City Health Department, Baltimore, MD.

Directed all program, policy and administrative activities of the Division of Environmental Health. Managed 113 employees and \$4 million annual budget for 4 major programs: Food and Institutional Facilities Inspections, Animal Control, Childhood Lead Poisoning Prevention and Community Environmental Health. Successfully consolidated the separate clinical, environmental, health education and administrative components of the Childhood Lead Poisoning Prevention Program that improved oversight, use of resources and program outcomes. Coordinated a city-wide interagency lead paint enforcement strategy that resulted in

the first lead paint violation case taken to court in a decade. Secured technical resources for South Baltimore communities to assess neighborhood environmental conditions.

6/94 – 6/96 Environmental Policy Specialist, The Environmental Law Institute, Washington, DC

Conducted research and analysis covering a broad range of environmental policy and health issues. Launched, managed and secured funding for an urban studies program centering on community-based environmental health assessment training for residents in southeast D.C. Developed radon/indoor air quality risk communication strategies and real estate education activities for ELI's Center for Public Health and Law. Skilled in grant writing and project management. Supervised day-to-day activities of research assistants.

EDUCATION

- May 2002 Dr.P.H., Environmental Health Sciences, Johns Hopkins University Bloomberg School of Public Health, Baltimore, Maryland. Thesis: "Personal Exposure Monitoring Meets Risk Assessment: A Comparison of Measured and Modeled Exposures and Risks in an Urban Community."
- May 1997 M.P.H., Environmental Health Sciences, Johns Hopkins University Bloomberg School of Public Health, Baltimore, Maryland.
- May 1990 M.Engr., Environmental Engineering, University of Virginia, Charlottesville, Virginia.
- Jan 1989 B.S., Civil Engineering, University of Virginia, Charlottesville, Virginia.

PROFESSIONAL MEMEBERSHIPS

1. American Public Health Association, member, since 1995
2. Fulbright Association, member, since 2018
3. International Society for Environmental Epidemiology, member since 2004
4. Maryland Conference of Local Environmental Health Directors, member 1998 – 2000
5. Interdisciplinary Association for Population Health Science, member since 2020

RESEARCH, SCHOLARLY, AND CREATIVE AND/OR PROFESSIONAL ACTIVITIES

Publication Statistics: According to Google Scholar, as of Jan 1, 2025, my published peer-reviewed papers have been cited a total of 4,029 times with an average of 70 citations per paper (Range, 0-984 citations). My overall h-index is 24. 2024 Impact Factors listed below are from journal publishers and number of citations are defined by Google Scholar.

(=student/mentee; § =corresponding author; ** =shared first author; + =senior author)*

BOOKS AND BOOK CHAPTERS

1. **Payne-Sturges D[§]**, Locke P, Keiner ST. "The Community Environmental Health Assessment Workbook: A Guide to Evaluating your Community's Health." 1996, and second edition 2000. The Environmental Law Institute. Washington, D.C. ISBN-13: 978-1585760169. <http://hdl.handle.net/1903/18892>.
2. **Payne-Sturges D[§]**. "Environmental Equity" Chapter. 2012. Pediatric Environmental Health, 3rd Edition. American Academy of Pediatrics. ISBN-13: 978-1581103137.

3. **Payne-Sturges D^s**. “Environmental Equity” Chapter. 2018, Pediatric Environmental Health, 4th Edition. American Academy of Pediatrics. ISBN-13: 978-1-61002-218-7

REFEREED JOURNAL PUBLICATIONS

ARTICLES PUBLISHED OR IN PRESS IN PEER-REVIEWED JOURNALS (*in chronological order*)

1. **Payne-Sturges, DC^s** and Breugelmans JG. 2001. Local lead data are needed for local decision making. *American Journal of Public Health*. 91(9): 1396-7. PMID: 11527769. **Impact Factor:12.7. Cited:4.**
Contribution of Devon Payne-Sturges: Conceived study idea; supervised data collection and analysis and wrote major portions of the manuscript.
2. **Payne-Sturges DC^s**, Schwab M, Buckley TJ. 2004. Closing the research loop: a risk-based approach for communicating results of air pollution exposure studies. *Environmental Health Perspectives*. 112(1): 28-34. PMID: 14698927. **Impact Factor:10.4. Cited:32.**
Contribution of Devon Payne-Sturges: Conceived project idea, collected the data, conducted the data analysis and wrote the entire manuscript.
3. **Payne-Sturges DC^s**, Burke TA, Breyse P, Diener-West M, Buckley TJ. 2004. Personal exposure meets risk assessment: a comparison of measured and modeled exposures and risks in an urban community. *Environmental Health Perspectives*. 112(5): 589-98. **Impact Factor:10.4. Cited:213.**
Contribution of Devon Payne-Sturges: Conceived study idea, collected the data, conducted the data analysis and wrote the entire manuscript.
4. Gee GC^s and **Payne-Sturges DC**. 2004. Environmental health disparities: a framework integrating psychosocial and environmental concepts. *Environmental Health Perspectives*. 112(17):1645-53. PMID: 15579407. **Impact Factor: 10.4. Cited:989.**
Contribution of Devon Payne-Sturges: Co-Conceived manuscript idea and wrote major portions of the manuscript. This manuscript received the 2007 U.S. EPA Scientific and Technological Achievement Award, Level II, for advancing the interdisciplinary study of racial/ethnic disparities in environmental health and cumulative risk.
5. Bekarian N*, **Payne-Sturges D^s**, Edmondson S, Chism B, Woodruff TJ. 2006. Use of point-of-sale data to track usage patterns of residential pesticides: methodology development. *Environmental Health*. 5(15).PMID: 16725037. **Impact Factor:7.0. Cited:30.**
Contribution of Devon Payne-Sturges: Conceived study idea; supervised data collection and analysis by student mentee and wrote major portions of the manuscript.
6. **Payne-Sturges D^s**, Zenick H, Wells C, Sanders W. 2006. We cannot do it alone: Building a multi-systems approach for assessing and eliminating environmental health disparities. *Environmental Research*. 102(2): 141-5. PMID:16545364. **Impact Factor:8.3. Cited:11.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript.
7. **Payne-Sturges DC^s**, Gee GC, Crowder K, Hurley BJ, Lee C, Morello-Frosch R, Rosenbaum A, Schulz A, Wells C, Woodruff T, Zenick H. 2006. Workshop summary: connecting social and environmental factors to measure and track environmental health disparities. *Environmental Research*. 102(2):146-53. PMID:16438950. **Impact Factor:8.3. Cited:50.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, supervised the analysis, led the writing and wrote major portions of the manuscript.
8. **Payne-Sturges D^s** and Gee GC. 2006. National environmental health measures for minority and low-income populations: Tracking social disparities in environmental health. *Environmental Research*. 102(2):154-71. PMID: 16875687. **Impact Factor:8.3. Cited:170.**

- Contribution of Devon Payne-Sturges: Developed study idea, designed and performed data analyses, and led writing of the manuscript.
9. **Payne-Sturges D^S**, Kemp D. 2008. Ten years of addressing children's health through regulatory policy at the U.S. Environmental Protection Agency. *Environmental Health Perspectives*. 116 (12):1720-1724. PMID: 19079726. **Impact Factor: 10.4. Cited:7.**
Contribution of Devon Payne-Sturges: Developed study idea, designed and performed data analyses, and led writing of the manuscript.
 10. **Payne-Sturges D^S**, Cohen J, Castorina R, Axelrad DA, Woodruff TJ. 2009. Evaluating cumulative organophosphorus pesticide body burden of children: a national case study. *Environmental Science and Technology*. 43(20):7924-30. PMID: 19921915. **Impact Factor:11.4. Cited:35.**
Contribution of Devon Payne-Sturges: Developed study idea, designed and performed data analyses, and wrote the entire manuscript. This manuscript received Editor's Choice Award as Environmental Science and Technology's Best Paper 2nd runner up for science in 2009. This manuscript also received the 2012 U.S. EPA Scientific and Technological Achievement Award, Level III, for 'Advancing health risk interpretation of biomonitoring data for evaluation of policy actions to protect children's health'.
 11. Baron S^S, Sinclair R, **Payne-Sturges D**, Phelps J, Zenick H, Collman GW, O'Fallon LR. 2009. Partnerships for environmental and occupational justice: Contributions to research, capacity and public health. *American Journal of Public Health*. 99 Suppl 3:S517-25. PMID: 19890151. **Impact Factor:12.7. Cited: 51.**
Contribution of Devon Payne-Sturges: Assisted in the analysis and contributed to major portions of the manuscript.
 12. Gordon L*, **Payne-Sturges D^{S+}**, Gee G. 2010. Environmental health disparities: Select case studies related to Asian and Pacific Islander Americans. *Environmental Justice*. 3(1):21-26. **Impact Factor:not indexed. Cited:20.**
Contribution of Devon Payne-Sturges: Conceived study idea; supervised data collection and analysis by student mentee and wrote major portions of the manuscript.
 13. Nweke O C^S, **Payne-Sturges D**, Garcia L, Lee C, Zenick H, Grevatt P, Sanders W, Case H, Dankwa-Mullan I. 2011. Symposium on integrating the science of environmental justice in decision making at EPA: An overview. *American Journal of Public Health*. 101 Suppl 1:S19-26. PMID: 22028456. **Impact Factor: 12.7. Cited:30.**
Contribution of Devon Payne-Sturges: Co-conceived manuscript idea and wrote major portions of the manuscript.
 14. Muennig P^S, Song X, **Payne-Sturges DC**, Gee GC. 2011. Blood and urine levels of long half-life toxicants by nativity among immigrants to the United States. *Science of the Total Environment*. 109(13):412-413. PMID: 22088424. **Impact Factor:10.75. Cited:13.**
Contribution of Devon Payne-Sturges: Assisted in the study design; and contributed to major portions of the manuscript.
 15. **Payne-Sturges D^S**. 2011. Humanizing science at the US Environmental Protection Agency. *American Journal of Public Health*. 101 Suppl 1:S8-12. PMID: 22028453 **Impact Factor: 12.7. Cited:5.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea and wrote the entire manuscript.
 16. **Payne-Sturges D^S**, Turner A, Wignall J, Rosenbaum A, Dederick E, Dantzker H. 2012. A review of state-level analytical approaches for evaluating disproportionate environmental health impacts. *Environmental Justice*. 5(4): 173 – 187. **Impact Factor:Not Indexed. Cited 7.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, supervised the analysis, led the writing and wrote major portions of the manuscript.
 17. Alves S, Tilghman J, Rosenbaum A, **Payne-Sturges DC^{S+}**. 2012. U.S. EPA authority to use cumulative risk assessments in environmental decision-making. *International Journal of Environmental Research and Public Health*. 9(6), 1997-2019. PMID: 22829786 **Impact Factor:4.5. Cited:33.**

Contribution of Devon Payne-Sturges: Conceived study idea, supervised the analysis and contributed to writing of manuscript.

18. Yuen T* and **Payne-Sturges DC^{§†}**. 2013. Using health impact assessment to integrate environmental justice into federal environmental regulatory analysis . *New Solutions*. 23(3):1-28. PMID: 23945351. **Impact Factor:Not indexed. Cited:12.**
Contribution of Devon Payne-Sturges: Conceived study idea, supervised analysis by student mentee and wrote major portions of the manuscript.
19. Harper S[§], Ruder E, Roman HA, Geggel A, Nweke O, **Payne-Sturges D** and Levy JI. 2013. Using inequality measures to incorporate environmental justice into regulatory analyses. *International Journal of Environmental Research and Public Health*. 10(9):4039-4059. PMID:23999551. **Impact Factor:4.5. Cited: 46.**
Contribution of Devon Payne-Sturges: Assisted in the study design and contributed to the writing of the manuscript.
20. Yuen T*, Park A, Seifer S, **Payne-Sturges D^{§†}**. 2015. A Systematic review of community engagement in US Environmental Protection Agency's extramural research solicitations: Implications for research funders. *American Journal of Public Health*. Dec;105(12):e44-52. PMID: 26469656. **Impact Factor:12.7. Cited: 31.**
Contribution of Devon Payne-Sturges: Conceived study idea; supervised data collection and analysis by student mentee and wrote major portions of the manuscript.
21. **Payne-Sturges DC[§]**, Korfmacher KS, Cory-Slechta DA, Jimenez M, Symanski E, Carr Shmool JL, Dotson-Newman O, Clougherty JE, French R, Levy JI, Laumbach R, Rodgers K, Bongiovanni R and Scammell MK. 2015. Engaging communities in research on cumulative risk and social stress-environment interactions: Lessons learned from EPA's STAR Program. *Environmental Justice*. 8(6):203-212. PMID: 27688822. **Impact Factor: Not indexed. Cited:22.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript.
22. Boyle MD*, **Payne-Sturges DC****, Sangaramoorthy T, Wilson S, Milton D, Nachman K, Babik K, Jenkins CC, Trowell J, and Sapkota A[§]. 2016. Hazard ranking methodology for assessing health impacts of unconventional natural gas development and production: The Maryland case study. *PLoS One*. 11(1):e0145368. PMID:26726918. **Impact Factor:3.75. Cited:21.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript.
23. Sangaramoorthy T[§], Jamison A*, Boyle MD*, Sapkota A, **Payne-Sturges DC**, Milton D, Wilson S. 2016. Place-based perceptions of the impacts of fracking along the Marcellus Shale. *Social Science and Medicine*. 151:27-37. PMID:26773295. **Impact Factor 5.38. Cited:129 .**
Contribution of Devon Payne-Sturges: Contributed to writing of manuscript.
24. Bennett D, Bellinger DC, Birnbaum LS, Bradman A, Chen A, Cory-Slechta DA, Engel SM, Fallin MD, Halladay A, Hauser R, Hertz-Picciotto I[§], Kwiatkowski CF, Lanphear BP, Marquez E, Marty M, McPartland J, Newschaffer CJ, **Payne-Sturges D**, Patisaul HB, Perera FP, Ritz B, Sass J, Schantz SL, Webster TF, Whyatt RM, Woodruff TJ, Zoeller RT, Anderko L, Campbell C, Conry JA, DeNicola N, Gould RM, Hirtz D, Huffling K, Landrigan PJ, Lavin A, Miller M, Mitchell MA, Rubin L, Schettler T, Tran HL, Acosta A, Brody C, Miller E, Miller P, Swanson M, Witherspoon NO; American College of Obstetricians and Gynecologists (ACOG); Child Neurology Society; Endocrine Society; International Neurotoxicology Association; International Society for Children's Health and the Environment; International Society for Environmental Epidemiology; National Council of Asian Pacific Islander Physicians; National Hispanic Medical Association; National Medical Association. 2016. Project TENDR: targeting environmental neurodevelopmental risks: The TENDR consensus statement. *Environmental Health Perspectives*. 124(7):A118-22. PMID:4937840. **Impact Factor: 10.4. Cited:165.**
Contribution of Devon Payne-Sturges: Contributed to the writing of the manuscript to include discussion of multiple chemical exposures and cumulative risk.

25. Shenassa E[§], Rossen LM, Cohen J, Morello-Frosch R, **Payne-Sturges D⁺**. 2016. Income inequality and U.S. children's secondhand smoke exposure: Distinct associations by race-ethnicity. *Nicotine and Tobacco Research*. 19(11): 1292-1299. PMID: 27811157 **Impact Factor:5.83. Cited:15.**
Contribution of Devon Payne-Sturges: Conceived of project and contributed to the writing of the manuscript.
26. Kellner MN*[§], Tchangalova N, Gammons GW, Carroll AJ, **Payne-Sturges DC⁺**. 2016. Collaborating for success: A case study on mentoring, partnering, and teaching. *Collaborative Librarianship*. 8 (4):202-223. **Impact Factor:Not indexed. Cited:2.**
Contribution of Devon Payne-Sturges: Created the learning assessment around which this cased study was developed and contributed to the writing of the manuscript.
27. Bruening M[§], Argo K*, **Payne-Sturges D**, Laska MN. 2017. The struggle is real: a systematic review of what is known about food insecurity on post-secondary campuses and what is being done about it. *Journal of the Academy of Nutrition and Dietetics*. 117(11):1767-1791. PMID: 28754200. **Impact Factor:5.5. Cited:416 .**
Contribution of Devon Payne-Sturges: Conducted review of the literature and assisted in synthesis and writing of the manuscript.
28. **Payne-Sturges DC[§]**, Tjaden A, Caldeira KM, Vincent KB and Arria AM. 2018. Student Hunger on Campus: Food Insecurity Among College Students and Implications for Academic Institutions. *American Journal of Health Promotion*. 32(2):349-354.PMID: 28699401. **Impact Factor:2.96. Cited:473.**
Contribution of Devon Payne-Sturges: Conceived of the project, designed survey, conducted data analysis and wrote the entire manuscript.
29. **Payne-Sturges DC[§]**, Scammell MK, Levy JI, Cory-Slechta DA, Symanski E, Carr Shmool JL, Laumbach R, Linder S, Clougherty JE. 2018. Methods for evaluating the combined effects of chemical and nonchemical exposures for cumulative environmental health risk assessment. *International Journal of Environmental Research and Public Health*. 15(12):pii: E2797. PMID:30544651. **Impact Factor:4.5. Cited: 29.**
Contribution of Devon Payne-Sturges: Conceived of the project and led the writing of the manuscript.
30. Puett RC[§], Quirós-Alcalá L, Montresor-Lopez J*, Tchangalova N, Dutta A, **Payne-Sturges D**, Yanosky JD. 2019. Long-term exposure to ambient air pollution and type 2 diabetes in adults. *Current Epidemiology Reports*. 6:67–79. **Impact Factor: 3.3. Cited:14.**
Contribution of Devon Payne-Sturges: Assisted with writing and editing the manuscript regarding public policy and risk assessment implications.
31. Craddock HA*, Huang D*, Turner PC, Quirós-Alcalá L, **Payne-Sturges DC^{§+}**. 2019. Trends in neonicotinoid pesticide residues in food and water in the United States, 1999–2015. *Environmental Health*. 18:1(7). PMID: 30634980. **Impact Factor: 7.0. Cited:194.**
Contribution of Devon Payne-Sturges: Conceived of the project, supervised the data analysis conducted by student advisees and led the writing of the manuscript.
32. Ifeoma Ezeugoh RI*, Puett R, **Payne-Sturges D**, Cruz-Cano R , Wilson SM. 2019. Air quality assessment of volatile organic compounds near a concrete block plant and traffic in Bladensburg, Maryland. *Environmental Justice*. 12(6): 250-260. Not Indexed
33. **Payne-Sturges DC[§]**, Marty MA, Perera F, Miller MD, Swanson M, Ellickson K, Cory-Slechta DA, Ritz B, Balmes J, Anderko L, Talbott EO, Miller E, Gould R, Hertz-Picciotto I. 2019. Healthy air healthy brains: Advancing air pollution policy to protect children's health. *American Journal of Public Health* 109(4):550-554. PMID: 30789769. **Impact Factor:12.7. Cited:82.**
Contribution of Devon Payne-Sturges: Conceptualized and supervised the analysis and led the writing of the article.
34. van Woerden I*, Bruening M, Montresor-López J*, **Payne-Sturges DC^{§+}**. 2019. Trends and disparities in urinary BPA concentrations among U.S. emerging adults. *Environmental Research*. 176: 108515.**Impact Factor:8.3 . Cited: 21.**
Contribution of Devon Payne-Sturges: Conceived study idea, supervised analysis by student mentees, led the writing and wrote major portions of the manuscript.

35. Ifeoma Ezeugoh RI*, Puett R, **Payne-Sturges D**, Cruz-Cano R, Wilson SM. 2020. Air quality assessment of particulate matter near a concrete block plant and traffic in Bladensburg, Maryland. *Environmental Justice*. 13(3): 75-85. Not Indexed.
36. **Payne-Sturges DC**^s, Cory-Slechta DA, Puett RC, Thomas SB, Hammond R, Hovmand PS. 2021. Defining and intervening on cumulative environmental neurodevelopmental risks: Introducing a complex systems approach. *Environmental Health Perspectives*. 129(3): 35001. PMID: PMC7945198. **Impact Factor: 10.4. Cited:33.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript.
37. **Payne-Sturges D**^s, Sangaramoorthy T and Mittmann H*. 2021. Framing environmental health decision-making: The struggle over cumulative impacts policy. *International Journal of Environmental Research and Public Health*. 18(8). PMID: PMC8070174. **Impact Factor:4.5. Cited:2.**
Contribution of Devon Payne-Sturges: Conceived of the project and led the writing of the manuscript.
38. Sprinkle R^s and **Payne-Sturges D**^{**}. 2021. Mixture toxicity, cumulative risk, and environmental justice in United States federal policy, 1980–2016. *Environmental Health*. 20(104). **Impact Factor: 7.0 Cited:10.**
Contribution of Devon Payne-Sturges: Co-Conceived manuscript idea, and contributed to the interview of key informants, analysis of archival sources and writing of the manuscript.
39. **Payne-Sturges DC**^s, Gee GC Cory-Slechta DA. 2021. Confronting Racism in Environmental Health Sciences: Moving the Science Forward for Eliminating Racial Inequities. *Environmental Health Perspectives*. 129(5): 55002. PMID: PMC8096378. **Impact Factor: 10.4. Cited:51.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript. This paper was selected by the journal's science editors as one of the 15 notable papers published during 2021 and highlighted in EHP's [Editors' Choice Collection 2021 | Environmental Health Perspectives \(nih.gov\)](#).
40. van Woerden I, **Payne-Sturges DC**, Whisner CM, Bruening M. 2021. Dietary quality and bisphenols: trends in bisphenol A, F and S exposure in relation to the Healthy Eating Index using representative data from the NHANES 2007-2016. *American Journal of Clinical Nutrition*. 114(2): 669-682. **Impact Factor: 7.1 Cited:9.**
Contribution of Devon Payne-Sturges: Conceived study idea and contributed to the writing of the manuscript.
41. **Payne-Sturges DC**^s, Puett RC, Cory-Slechta DA. 2022. Both parents matter: a national-scale analysis of parental race/ethnicity, disparities in prenatal PM(2.5) exposures and related impacts on birth outcomes.. *Environmental Health*. 21(47). PMID: 35513869. **Impact Factor: 7.0. Cited:5.**
Contribution of Devon Payne-Sturges: Conceived study idea and led analysis and writing of the manuscript.
42. Solaiman S, Patterson R*, Davey K, Katz Y, **Payne-Sturges D**, Sapkota AR, Micallef SA. 2022. Effects of season and water type on the distribution and antimicrobial resistance of *Enterococcus faecalis* and *Ent. faecium* from surface and reclaimed water. *Journal of Applied Microbiology*. 133(2): 477-487. **Impact Factor: 4.06 Cited:2 .** *Contribution of Devon Payne-Sturges: Provided guidance on analysis and interpretation of results regarding policy implications.*
43. Crnosija, N.* Levy Zamora M, Rule AM and **Payne-Sturges D**⁺. 2022. Laboratory Chamber Evaluation of Flow Air Quality Sensor PM2.5 and PM10 Measurements. *International Journal of Environmental Research and Public Health*. 19(12), 7340; <https://doi.org/10.3390/ijerph19127340> . **Impact Factor: 4.5. Cited:4**
Contribution of Devon Payne-Sturges: Conceived study idea and supervised analysis and writing of the manuscript.
44. Medrano J*, Crnosija N*, Prather RW, **Payne-Sturges D**⁺. 2022. Bridging the environment and neurodevelopment for children's health: Associations between real-time air pollutant exposures and cognitive outcomes. *Frontiers in Psychology*. 2022 Oct 18;13:933327. doi: 10.3389/fpsyg.2022.933327. PMID: 36329746; PMID: PMC9623017. **Impact Factor: 3.8. Cited:3**

Contribution of Devon Payne-Sturges: Conceived study idea and supervised analysis and writing of the manuscript.

45. Hicken MT, **Payne-Sturges D**, McCoy E*. 2023. Evaluating Race in Air Pollution and Health Research: Race, PM(2.5) Air Pollution Exposure, and Mortality as a Case Study. *Current Environment Health Reports*, 10(1): p. 1-11. **Impact Factor: 7.9. Cited:14**
Contribution of Devon Payne-Sturges: Contributed to the writing of the manuscript, especially with regards to public policy and risk assessment implications.
46. **Payne-Sturges DC^s**, Ballard E, Cory-Slechta DA, Thomas SB, Hovmand P. 2023 Making the invisible visible: Using a qualitative system dynamics model to map disparities in cumulative environmental stressors and children's neurodevelopment. Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing of the manuscript *Environmental Research*. vol 221: PMID: 36681143. **Impact Factor: 8.3. Cited:5.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing of the manuscript.
47. **Payne-Sturges D^s**, De Saram S*, and Cory-Slechta DA. Cumulative Risk Evaluation of Phthalates Under TSCA. *Environmental Science and Technology*, 57(16): p. 6403-6414. **Impact Factor: 11.4 Cited:4.** Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing of the manuscript. This manuscript received Environmental Science and Technology's first joint runner-up in the category 'Policy Analysis' in the 2023 Best Paper Awards.
48. **Payne-Sturges DC^s**, Taiwo TK**, Ellickson K, Mullen H*, Tchangalova N, Anderko L, et al. 2023. Disparities in Toxic Chemical Exposures and Associated Neurodevelopmental Outcomes: A Scoping Review and Systematic Evidence Map of the Epidemiological Literature. *Environmental Health Perspectives*, 131(9): p. 96001 PMC10525348. **Impact Factor: 10.4 Cited:2.** Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the analysis and writing of the manuscript. This paper was selected by the journal for an invited commentary. Additionally this paper received significant media attention.
49. **Payne-Sturges DC^s**, Ballard E, Dilworth-Bart J. 2024. Systems approaches for uncovering mechanisms of structural racism impacting children's environmental health and development. *Early Childhood Research Quarterly*. 69: p. S91-S101, **Impact Factor: 3.7** Contribution of Devon Payne-Sturges: Conceived manuscript idea and led writing of the manuscript.
50. Sieck N*, Bruening M, van Woerden I, Whisner CM, **Payne-Sturges DC^{s+}**. 2024 Effects of behavioral, clinical, and policy interventions in reducing human exposure to bisphenols and phthalates: A scoping review. *Environmental Health Perspectives*. 132(3): p. 36001 PMC10936218. **Impact Factor: 10.4** Contribution of Devon Payne-Sturges: Conceived manuscript idea, supervised the analysis by student author, led the writing and wrote major portions of the manuscript.
51. Archer JM* and **Payne-Sturges DC^{s+}**. 2024. Cumulative Risks and Impacts. *Environmental Forum*. 41(5):32-37. **Impact Factor: NR** Contribution of Devon Payne-Sturges: Conceived manuscript idea, supervised the analysis by student author and contributed to the writing of the manuscript.

ARTICLES UNDER REVIEW

1. Chartres N, Woodruff T, Aung MT, Norris SL, Cooper C, Lisa Bero L, Roger Chou R, **Payne-Sturges DC**, Wagner WE, Reyes JW, Askie LM, Axelrad DA, Flores D, Johnston JE, Lam J, Lau P, Martinez ME, Nachman KE, Rehfuess E, Rothschild R, Sutton P, Zeise L. Development of the Navigation Guide Evidence-to-Decision Framework for Environmental Health. *Environmental Science & Technology*
2. Cruz-Cano R and **Payne-Sturges DC^{s+}**. The effect of emergency temporary standards on COVID-19 trends among farmworkers in Oregon: an interrupted time series analysis case study.

ARTICLES IN PREPARATION

1. Ballard E, LaBrier M, Hernandez S, **Payne-Sturges DC**. Understanding mechanisms of migrant and seasonal farmworker protections and exposures – a group model building protocol.
2. Hicken M, **Payne-Sturges DC**, Ajrouche A, Hawkins K. Racialization: Race as a dynamic mode of social surveillance and control.
3. Crnosija, N* and **Payne-Sturges, D⁺**. Extreme Heat Event Exposure and Kindergarteners' Reading and Mathematics Performance.

PUBLISHED CONFERENCE PROCEEDINGS

1. National Academies of Sciences, Engineering, and Medicine. 2020. Environmental neuroscience: Advancing the understanding of how chemical exposures impact brain health and disease: Proceedings of a workshop. Washington, DC: The National Academies Press. <https://doi.org/10.17226/25937>

CONFERENCES, WORKSHOPS AND TALKS

KEYNOTES

1. **Payne-Sturges D**. Keynote speaker. "Environmental Justice and Health Disparities: Why Environment Matters." Environmental Health 2011 Conference. Bahia, Brazil. February 2011.
2. **Payne-Sturges D**. Keynote speaker. "A Long Way to Environmental and Health Equity: Science, Policy and Environmental Justice at EPA." United States Society for Ecological Economics Biannual Meeting, Lansing, Michigan. June 2011.
3. **Payne-Sturges D**. Keynote speaker. "Why It Took Decades of Blaming Parents Before We Banned Lead Paint." Pesticides and the Chesapeake Bay Watershed Project Annual Conference. Reisterstown, Maryland. October 2018.
4. **Payne-Sturges D**. Keynote speaker. "Race Isn't Biological But Racism is Still Real." 6th Annual Community Health Konferenz, Hochschule für Gesundheit, Bochum, Germany. November 24, 2023

INVITED PRESENTATIONS, NATIONAL AND INTERNATIONAL

1. **Payne-Sturges D**. "Stressed Communities and Public Health Indicators." Fourth Annual U.S. EPA Region III All States Environmental Justice Meeting. Dover, Delaware, June 2002.
2. **Payne-Sturges D**. "Personal Exposure Monitoring Meets Risk Assessment." U.S. EPA Regional/ORD Workshop on Air Toxics Exposure Assessment, San Francisco, California. June 2002.
3. **Payne-Sturges D**. "Assessing Environmental Exposures of Disadvantaged Populations and Communities: Population Vulnerability, Socio-economic Position and Environmental Justice." U.S.EPA Exposure Assessment Colloquium, Washington, DC. April 2005.
4. **Payne-Sturges D**. "Connecting Social and Environmental Factors to Measure and Track Environmental Health Disparities." U.S. EPA Region 3 All States EJ Meeting, Philadelphia, Pennsylvania. December 2005.
5. **Payne-Sturges D**. "Considering Children's Health When Developing EPA Actions." Regulation Development at U.S. EPA Training Course, Washington, DC. February 2006.
6. **Payne-Sturges D**. "Environment and Public Health: Trends and Emerging Issues." Healthy People 2020 Technical Panel, US Department of Health and Human Services, Washington, DC. June 2006.

7. **Payne-Sturges D.** "Health Disparities: A U.S. EPA Perspective." Centers for Disease Control and Prevention Health Disparities Research Federal Partners meeting. Washington, D.C. May 2006.
8. **Payne-Sturges D.** "Children's Environmental Health Regulatory Issues." U.S. EPA Environmental Justice Coordinators' Annual Meeting, Washington, DC. November 2007.
9. **Payne-Sturges D.** "Protecting Environmental Health for Mothers and Children: A U.S. EPA Perspective." U.S. Conference of Catholic Bishops: Protecting Human Life and Caring for Creation Meeting, Washington, DC. April 2007.
10. **Payne-Sturges D.** "Report Out from Strengthening Environmental Justice Research and Decision Making: A Symposium on the Science of Disproportionate Environmental Health Impacts." Collaborative on Health and the Environment Partnership Call-Evaluating the Impact of Cumulative Stressors on Health. April 2010.
11. **Payne-Sturges D.** "Approaching Cumulative: Update from USEPA." U.S. EPA Region 10 EJ Partners Teleconference. April 2011.
12. **Payne-Sturges D.** "Measuring Disproportionate Impacts as Part of State EJ Programs." Closing the Environmental Justice Gap: A Workshop on Evaluation Methods, University of California Los Angeles. September 2011.
13. **Payne-Sturges D.** "Humanizing Science: Making Research Relevant for Achieving Health Equity." Society for the Study of Reproduction 45th Annual Meeting, State College, Pennsylvania. August 2012.
14. **Payne-Sturges D.** "Indicators for Equity: What Does the Environment Have to Do with It?" Community Indicators Consortium Annual Meeting, College Park, MD. November 2012.
15. **Payne-Sturges D.** "Why Environment Matters for Health Equity: Role of Science in Environmental Justice at EPA." Environmental Health Disparities on the Border, University of Texas, El Paso, Texas. May 2014.
16. **Payne-Sturges D.** "Monitoring of Chemical Exposures." Targeting Environmental Neuro-Developmental Risks (TENDR) Workshop, Monterey, California. February 2016.
17. **Payne-Sturges D.** "Socio-epidemiological Research Approaches and Cumulative Risk." Cities of the Future: Promoting Sustainability and Health Together. Dortmund, Germany. June 2016.
18. **Payne-Sturges D.** "Towards Cumulative Risk Policy: An Opportunity to Address Environmental Justice." Cumulative Risk Workshop. Hochschule für Gesundheit - University of Applied Sciences, Bochum, Germany. October 2017
19. **Payne-Sturges D.** "More Than a Technical Challenge: The Social Life of Cumulative Risk and Mixtures Toxicity Policy in the United States." Umweltbundesamt (German Environment Agency), Berlin, Germany. October 2017
20. **Payne-Sturges D.** "Umweltgerechtigkeit und Deutschland." Department of Environmental and Occupational Health Seminar, Dornsife School of Public Health, Drexel University. May 2018
21. **Payne-Sturges D.** "Health Inequalities: What does the Environment Have to Do with It?" International Workshop: Tackling and Overcoming the Social Determinants of Health Inequalities, Ulster University-Belfast Campus, Northern Ireland. June 2018.
22. **Payne-Sturges D.** "Social Disparities in Environmental Health and Environmental Justice in Germany." J. William Fulbright Foreign Scholarship Board. Washington, D.C. May 2018.
23. **Payne-Sturges D.** "Assessing and Measuring Basic Needs." American College Health Association Leadership and Innovations Summit. Washington, D.C. Oct 2018.
24. **Payne-Sturges D.** "Health Disparities: What Does the Environment Have to Do with It?" Monthly Health Disparities Seminar Series, National Institute on Aging, Baltimore, Maryland. February 2019.
25. **Payne-Sturges D.** "Healthy Air Healthy Brains: Advancing Air Pollution Policy to Protect Children's Health." Centers for Disease Control and Prevention, Pediatric Environmental Health Specialty Units' Annual Meeting. Washington, D.C. June 2019.
26. **Payne-Sturges D.** "Healthy Air Healthy Brains: Advancing Air Pollution Policy to Protect Children's Health." International Society for Environmental Epidemiology/Society for Epidemiologic Research and the Eunice

- Kennedy Shriver National Institute of Child Health and Human Development (NICHD) fall seminar. Bethesda, MD, November 2019.
27. **Payne-Sturges D.** “Making the invisible visible – Insights from Health Equity Research.” Autism Speaks Health Equity Conference, Washington, DC. December 2019.
 28. **Payne-Sturges D.** “Intervening on Cumulative Environmental Neurodevelopmental risks.” FIU-RCMI Health Disparities Research Seminar Series, Florida International University Miami, FL. Jan 24, 2020.
 29. **Payne-Sturges D.** “Intervening on Cumulative Environmental Neurodevelopmental risks: Introducing a Complex Systems Approach MAKING THE CONNECTION CONFERENCE 2020, Wisconsin Environmental Health Network, University of Wisconsin – Madison, WI. March 7, 2020.
 30. **Payne-Sturges D.** Invited panelist on Future Directions of Environmental Neuroscience: Advancing the Understanding of How Chemical Exposures Impact Brain Health and Disease—A Virtual Workshop, NASEM, June 25, 2020.
 31. **Payne-Sturges D.** “Racialized Disparities in Exposures to Chemical Contaminants Affecting Neurodevelopment.” NASEM Neuroscience Virtual Forum. September 22, 2020
 32. **Payne-Sturges D.** “Framing environmental health decision-making: The struggle over cumulative impacts policy.” UC Berkeley SRP EJ Seminar. February 12, 2021
 33. **Payne-Sturges D.** Engaging with Institutions Abroad Through the Fulbright Specialist Program. AAAS Annual Meeting. February 10, 2021
 34. **Payne-Sturges D.** “Making the invisible visible: Intervening on cumulative environmental neurodevelopmental risks using a system dynamics approach.” EHSC Seminar, Rochester Medical Center. April 8, 2021
 35. **Payne-Sturges D.** “Surveillance of Environmental Injustices: Is it Enough?” Interdisciplinary Association for Population Health Sciences Annual Meeting (virtual) Oct 20, 2021
 36. **Payne-Sturges D.** and Köckler H. “Health Inequities as an Outcome of Racism: Present Observations on Covid-19, Environmental Justice and Theoretical Approaches from US and German perspectives”. Community Health Konferenz, Hochschule für Gesundheit, University of Applied Sciences. Bochum, Germany. November 26, 2021.
 37. **Payne-Sturges D.** and Peter Hovmand. “Defining and Intervening on Cumulative Environmental Neurodevelopmental Risks: A System Dynamics Approach.” Society of Toxicology Annual Meeting. San Diego, CA. March 28, 2022.
 38. **Payne-Sturges D.** and Peter Hovmand. “Defining and Intervening on Cumulative Environmental Neurodevelopmental Risks: A System Dynamics Approach.” Harvard JBP Program’s Socio-Environmental Research Group Conference. Portland, OR. April 22, 2022.
 39. **Payne-Sturges D.** “But They Are Not Our Children”: Observations on Environmental Justice and Theoretical Approaches from US Perspective.” 14th Annual Black Europe Summer School. Amsterdam, the Netherlands. July 7, 2022.
 40. **Payne-Sturges D.** “The Sum of Us and Some of Us: Overcoming the Sum of Environmental Burdens Impacting Children’s Environmental Health.” NIEHS CEHRT Centers Annual Meeting, Virtual. September 9, 2022.
 41. **Payne-Sturges D.** “Mapping the Literature on Racialized Disparities in Exposures to Chemical Contaminants Affecting Neurodevelopment.” President’s Plenary Session, American Neurology Association Annual Meeting. Chicago, IL. October 23, 2022.
 42. **Payne-Sturges D.** “Solutions for Cumulative Risks & Impacts: Prescriptions for Improving Community Environmental Health.” Cumulative Impacts Legislative Briefing. Lansing, MI. September 19, 2023.
 43. **Payne-Sturges D.** “Cumulative Risks and Impacts: Discussion on barriers and opportunities.” Policy and Analysis Division, Office of Environmental Justice and External Civil Rights, U.S. EPA. Washington, DC. August 20, 2024

44. **Payne-Sturges D.** “The Sum of Us and Some of Us: Overcoming the Sum of Environmental Burdens Impacting Minority Populations” APHA Environment Section Awards Luncheon (to receive the Career Achievement Award). Minneapolis, MN. Oct 28, 2024.

INVITED PRESENTATIONS, LOCAL

1. **Payne-Sturges D.** “Public Health Indicators and Environmental Justice.” Maryland Governor’s Commission on Environmental Justice and Sustainable Communities. Maryland Department of the Environment. Baltimore, Maryland. May 2002.
2. **Payne-Sturges D.** “Incorporating Unique Community Attributes.” Tracking Community Environmental Health, What Should the State be Doing? Environmental Public Health Tracking Conference, Maryland Department of Health and Mental Hygiene, Baltimore, Maryland. June 2007.
3. **Payne-Sturges D.** “Environmental Justice and Health Disparities: Why Environment Matters.” Maryland Department of the Environment, Baltimore, Maryland. June 2010.
4. **Payne-Sturges D.** “Overview of Health Impact Assessment.” The Maryland Nonprofits Legislative Review Meeting, Woodstock, Maryland. January 2015.
5. **Payne-Sturges D.** “Health Impact Assessment: An Overview.” Prince George’s Food Equity Council, College Park, Maryland. January 2015.
6. **Payne-Sturges D.** “TENDR: Developmental Neurotoxicants in Our Environment and What We Should Do About Them.” Program in Neuroscience and Cognitive Science Faculty Retreat, UMD, Annapolis, Maryland. August 2017
7. **Payne-Sturges D.** “Cumulative Risk: Psychosocial Stress and Environmental Exposures.” The Child Stress and Emotions Lab Seminar, UMD Department of Psychology. College Park, Maryland. February 2019.
8. **Payne-Sturges D.** “Making the invisible visible: Intervening on cumulative environmental neurodevelopmental risks using a system dynamics approach.” National Socio-Environmental Synthesis Center (SESYNC) Fall Seminar Series. October 2020.
9. **Payne-Sturges D.** Looking Back, Thinking Forward: A Discussion of COVID-19’s Impact on Workers’ Rights and Protections. Maryland Journal of Race, Religion, Gender & Class Spring Symposium, Baltimore, Maryland. February 23, 2022.

REFEREED PRESENTATIONS

1. **Payne-Sturges D.** “Environmental Burdens of Low Income and Minority Populations: Implications for Environmental Public Health Tracking.” American Public Health Association 132nd Annual Meeting, Washington, DC. November 2004.
2. **Payne-Sturges D.** “A Framework for Tracking Social Disparities in Environmental Health.” International Society for Environmental Epidemiology Annual Meeting, Johannesburg, South Africa. September 2005.
3. **Payne-Sturges D.** “Connecting Social and Environmental Factors to Measure and Track Environmental Health Disparities.” American Public Health Association 133th Annual Meeting, Philadelphia, Pennsylvania. December 2005.
4. **Payne-Sturges D,** Gordon L*, Gee GC. “Exposure to Small Air Particulates (PM2.5) among Asian and Pacific Islander Americans.” American Public Health Association 135th Annual Meeting, Washington, DC. November 2007.
5. **Payne-Sturges D.** “Reducing Disproportionate Environmental Health Impacts through Federal Decision Making Processes: A report out from the EPA *Symposium on the Science of Disproportionate Environmental Health Impacts.*” American Public Health Association 138th Annual Meeting, Denver, Colorado. November 2010.
6. **Payne-Sturges D** and Bevly D. “Addressing Food and Housing Insecurity in Higher Education.” American College Health Association Annual Meeting, Washington, D.C. June 2018.

7. Sprinkle RH and **Payne-Sturges DC**. "Environmental Governance and Evidence for Effective Policy-Making and Implementation." Association for Public Policy Analysis and Management 40th Annual Fall Research Conference, Washington, D.C. November 2018.
8. van Woerden I*, Bruening M, Montresor-López J*, **Payne-Sturges DC**+. "Trends and Disparities in Urinary BPA Concentrations among U.S. Emerging Adults." American Public Health Association 147th Annual Meeting, Philadelphia, Pennsylvania. November 2019.
9. **Payne-Sturges DC**. "Making the invisible visible: Intervening on cumulative environmental neurodevelopmental risks using a system dynamics approach." 10th Annual International Conference on Children's Health and the Environment. December 1, 2020.
10. **Payne-Sturges DC**. "Policy Advocacy with Project TENDR." Panel Presentation session, Civic engagement at ISEE: ramping up our efforts for impactful research. International Society for Environmental Epidemiology Annual Meeting, Athens. September 2022.
11. **Payne-Sturges DC, Ballard E and Dilworth-Bart J**. "Mechanisms of structural racism impacting environmental exposures and children's brain development." Society for Research in Child Development Annual Meeting, Salt Lake City, Utah. March 24, 2023.
12. **Ballard E, Hernandez S and Payne-Sturges DC**+. "Approaches for rapidly aligning interdisciplinary community research teams on participatory systems change methods: System dynamics 'Clinics'". Interdisciplinary Association for Population Health. St. Louis, MO. September 2024.
13. **Payne-Sturges DC and Hernandez S**. "Fields of Inquiry: Insights from a Survey of Maryland Migrant and Seasonal Farmworkers." American Public Health Association Annual Meeting, Minneapolis, Minnesota. October 2024.
14. **Corey C*, Turner P and Payne-Sturges DC**+ Applying cumulative risk methods to evaluate the effects of multiple phthalates and maternal stress on adverse antiandrogenic health outcomes." American Public Health Association Annual Meeting, Minneapolis, Minnesota. October 2024.

REFEREED POSTERS

1. **Payne-Sturges D**. "Environmental Burdens of Low Income and Minority Populations and Health Disparities: Implications for Environmental Public Health Tracking." International Society for Environmental Epidemiology Annual Meeting, New York, New York. August 2004.
2. **Payne-Sturges D**. "Addressing Children's Health through Regulatory Policy at U.S. Environmental Protection Agency." International Society for Environmental Epidemiology Annual Meeting, Paris, France. September 2006.
3. Gee GC, Hing A*, Shih V*, **Payne-Sturges D**, Morey B. "Disproportionate Exposure to Hazardous Heavy Metals Among Asian Americans: Findings from the 2011-12 National Health and Nutrition Examination Survey." American Public Health Association 143rd Annual Meeting, Chicago, Illinois. November 2015.
4. Mittmann H*, Sangaramoorthy T and **Payne-Sturges D**+. "Social Life of Policy: Cumulative Impact Legislation in Maryland." Maryland Public Health Association Annual Meeting. October 2017.
5. Mittmann H*, Sangaramoorthy T and **Payne-Sturges D**+. "Social Life of Policy: Cumulative Impact Legislation in Maryland." 9th Annual CUGH Global Health Conference. March 2018.
6. **Payne-Sturges D**, Mittmann H*, Sangaramoorthy T and Sprinkle R. "More than a technical challenge: The social life of cumulative risk and mixtures toxicity policy." International Society of Exposure Science - International Society for Environmental Epidemiology Joint Annual Meeting, Ottawa, Canada. August 2018.
7. Owe G*, Raindrop B, **Payne-Sturges DC**+. "Protecting Pollinators and Public Health: Maryland's Progress on Reducing the Use of Neonicotinoids." Maryland State Fair. August 2019. *Her poster won 5th place prize with high scores in the categories for public appeal, attractiveness and professional appearance, educational value.*

8. Owe G*, Raindrop B, **Payne-Sturges DC⁺**. "Protecting Pollinators and Public Health: Maryland's Progress on Reducing the Use of Neonicotinoids." American Public Health Association 147th Annual Meeting, Philadelphia, Pennsylvania. November 2019. *Her poster won 2nd place in student poster session for the Environment Section at APHA November 4, 2019.*
9. Ezeugoh R, Payne-Sturges D, Kavi L, Merlo L, Ravichandran V, Wilson S. "Assessment of Residential Exposure to Particulate Matter (PM) and Volatile Organic Compounds (VOCs) to Mobilize Community Action Against the Establishment of a Concrete Batching Plant in Bladensburg, Maryland." American Public Health Association 147th Annual Meeting, Philadelphia, Pennsylvania. November 2019.
10. **Payne-Sturges D**, Mittmann H*, Sangaramoorthy T. "Varied conceptions, regulatory silos and justice: The social life of cumulative risk policy in Maryland." American Public Health Association 147th Annual Meeting, Philadelphia, Pennsylvania. November 2019.
11. **Payne-Sturges D**, Ballard E, Cory-Slechta D, Puett R, Dilworth-Bart J, Huerta-Montanez, G , Swanson M, Prather R, Thomas S, Arrighi J, Ellickson K, Obot-Witherspoon N, Hammond R, Hovmand P. "Making the invisible visible: Intervening on cumulative environmental neurodevelopmental risks using a system dynamics approach." International Society for Environmental Epidemiology Annual Meeting, New York/Virtual. August 2020.
12. Majid A*, Crnosija N*, Medrano J*, Prather R , **Payne-Sturges D⁺**. "Developing Report-Back Materials for BENCH Study: An Iterative Process." National Association of County and City Health Officials Annual Meeting, Atlanta, Georgia. July 19 – 21, 2022
13. Medrano J*, Crnosija N*, Prather RW and **Payne-Sturges D⁺**. "Bridging the Environment and Neurodevelopment for Children's Health." Cognitive Development Society Annual Meeting, Madison, WI. April 21 – 23, 2022.
14. Crnosija N*, Medrano J*, Prather RW and **Payne-Sturges D⁺**. "The effect of COVID-19 lockdown/post-lockdown and season on children's exposure to PM2.5 and time expenditure by environment type." International Society for Environmental Epidemiology Annual Meeting, Athens. September 19, 2022.
15. Hernandez S, **Payne-Sturges D** and Ballard E. "Exploring Structural racism and heat exposure protection for agricultural worker: Insights from a system dynamics workshop." The National Conference on Worker Safety and Health, Baltimore, MD. December 7, 2023.
16. Crnosija N*, Puett R, **Payne-Sturges D⁺**. "Extreme heat event exposure and kindergarteners' reading and mathematics performance." American Geophysical Union Annual Meeting, San Francisco, CA. December 11-15, 2023
17. **Cruz-Cano R and Payne-Sturges DC**. "The effect of emergency temporary standard (ETS) on COVID-19 trends among farmworkers in Oregon: an interrupted time series analysis case study." American Public Health Association Annual Meeting, Minneapolis, Minnesota. October 2024.
18. **Archer JM* and Payne-Sturges DC⁺**. "Identifying barriers and facilitators to cumulative risk assessment for air pollution exposure in environmental justice communities: An Atlanta, Georgia case study." American Public Health Association Annual Meeting, Minneapolis, Minnesota. October 2024.

NON-REFEREED POSTERS

1. Mutunga W*, Kadry AR, Turner P, **Payne-Sturges DC⁺**. "Potential Health Risks Associated with the use of Malachite Green in Imported Aquacultured Catfish." Public Health Research Day, University of Maryland, College Park. April 2017.

2. Kelbick H*, Turner PC, Quirós-Alcalá L, **Payne-Sturges DC**⁺. “Trends in Neonicotinoid Pesticide Residues from Domestic and Imported Foods in the United States, 1999-2015.” Public Health Research Day, University of Maryland, College Park. April 2017.
3. Ogunbesan T*, **Payne-Sturges DC**, Carter-Pokras O. “Hypertension Prevalence among African Immigrants to the United States: A Comprehensive Literature Review.” Public Health Research Day, University of Maryland, College Park. April 2019.
4. Ammons S*, Nguyen Q, **Payne-Sturges DC**⁺. “Using the Index of Concentration at the Extremes to Evaluate the Association of Air Pollution Exposure and Infant Mortality in the United States in 2016.” Public Health Research Day, University of Maryland, College Park. April 2019.
5. Owe G*, Raindrop B, **Payne-Sturges DC**⁺. “Protecting Pollinators and Public Health: Maryland's Progress on Reducing the Use of Neonicotinoids.” Public Health Research Day, University of Maryland, College Park. April 2019.
6. Elspas R*, Cruz-Cano R, **Payne-Sturges DC**⁺. “Battle of the Sexes: Are Women More Informed About Endocrine Disrupting Chemicals Than Men?” Public Health Research Day, University of Maryland, College Park. April 2019.

SYMPOSIA

1. **Symposium on Environmental Justice.** International Society for Environmental Epidemiology Annual Meeting, Mexico City, Mexico. September 2007. Moderated and co-organized the symposium with Instituto Nacional de Salud Publica of Mexico.
2. **Strengthening Environmental Justice Research and Decision Making: A national Symposium on the Science of Disproportionate Environmental Health Impacts.** U.S. EPA. Washington, DC. March 2010. Conceived the symposium idea, organized and hosted the event. Over 300 participants from diverse backgrounds, including community-based organizations and environmental justice advocates, attended the meeting and more than 300 also participated via webcast. Fifteen technical papers that were presented at the Symposium were published in the December 2011 special issue of the American Journal of Public Health, for which I was a guest editor.
3. **Food Security and Food Justice Across the Lifecourse.** Fourth Annual Symposium on Environmental Justice and Health Disparities. University of Maryland. College Park, Maryland. May 2018. Conceived the session idea and moderated the session. <https://youtu.be/XhpmblmKYLq>
4. **Quality Water from Every Tap.** Washington, D.C. November 21 -22, 2019. I served on organizing committee and co-hosted national workshop on ensuring equitable access to safe drinking water for the NAS Environmental Health Matters Initiative. More than 200 people attend this workshop.
5. **Cumulative Environmental Stressors and Children’s Neurodevelopment: A System Dynamics Workshop** December 2 - 4, 2019, Washington U, St. Louis, MO. Organized and co-host this unique workshop involving experts across multiple disciplines to formally describe the multiple interacting streams of social stressors and environmental neurotoxicants impacting children’s neurodevelopment through the use of qualitative system maps and formal system dynamics simulation models.
6. **Structural Racism and Population Environmental Health: A Panel Discussion.** International Society for Environmental Epidemiology Annual Meeting (virtual). August 25, 2020. Moderated and co-organized the special session to discuss the ISEE statement on Anti-Black Violence and Racism and plans for the new ISEE Anti-Racism Task Force for which I was appointed co-chair. Upwards of 350-400 persons attended this panel discussion, a level of participation on par with plenary sessions.
7. **Race: the Power of an Illusion Online Symposia.** May – June 2021. Co-organized as co-chair of ISEE’s Anti-Racism Task Force, and in collaboration with University of Michigan Institute for Social Research and the Interdisciplinary Association for Population Health Sciences, live streaming and discussion of the award-

winning documentary Race: The Power of an Illusion. After each viewing of this three-part documentary, convened a panel of experts from across history, sociology, anthropology, and public health to discuss the meaning of race and its use in environmental health research. Recordings are available at <https://iaphs.org/tools-for-success/online-events/>

8. **Slow Violence: Place Race, and Local Environmental Inequity: Keynote Plenary Discussion.** International Society for Environmental Epidemiology Annual Meeting (virtual). August 25, 2021. Moderated and co-organized the special session on environmental racism -- or the policy-induced and policy-facilitated racial inequities in environmental toxicants featuring Catherine Coleman Flowers and Dr. Danielle Purifoy.
9. **EDF Cumulative Risk Assessment Framework: National Webinar.** September 7, 2022. Presented a strategy for using cumulative risk assessment to inform TSCA risk evaluations of existing chemicals, with phthalates a case example. <https://blogs.edf.org/health/2022/09/12/icymi-edf-cumulative-risk-assessment-framework-webinar/>. Over 150 attendees participated in the webinar.
10. **Mapping Environmental Injustice: Disparities in Chemical Exposures and Neurodevelopmental Outcomes. July 2, 2024.** National webinar with Alaska Community Action on Toxics and Collaborative Health and Environment. Presented on my published literature review on the disparities in neurodevelopmental outcomes in children in low-income families and communities of color in the United States. <https://www.akaction.org/webinars/15868-7/>. Over 300 participants registered for this webinar.

PROFESSIONAL PUBLICATIONS, INCLUDING WHITE PAPERS AND GOVERNMENT PUBLICATIONS

1. **Payne-Sturges D** (member of Mercury Workgroup). 2006. EPA's Roadmap for Mercury. U.S EPA. Washington DC. EPA-HQ-OPPT-2005-0013.
2. **Payne-Sturges D**, Miles-McLean S, Kataoka M, Patel M, Owens N. 2006. Guide to Considering Children's Health When Developing EPA Actions: Implementing Executive Order 13045 and EPA's Policy on Evaluating Health Risks to Children. U.S EPA. Washington DC. <http://hdl.handle.net/1903/18890>.
3. **Payne-Sturges D**. 2011. Plan EJ 2014: Science Tool Development Implementation Plan. Office of Research and Development. U.S. Environmental Protection Agency. Washington D.C. <http://hdl.handle.net/1903/18891>.
4. **Payne-Sturges D**. Chapter Author. 2011. Chapter 4. Lifestages, Vulnerable Groups, and Populations of Concern in Exposures Assessments in Draft Guidelines for Human Exposure Assessment and Monitoring. Risk Assessment Forum. U.S. Environmental Protection Agency. Washington D.C.
5. **Payne-Sturges D** and Martin L. 2014. Cumulative Risk Webinar Series: What We Learned, Office of Research and Development, U.S. Environmental Protection Agency, Washington, DC. EPA/600/R-14/212. <http://hdl.handle.net/1903/18893>.
6. **Early Childhood Scientific Council on Equity and the Environment.** (2023). Extreme Heat Affects Early Childhood Development and Health: Working Paper No. 1. Available at <https://developingchild.harvard.edu/wp-content/uploads/2024/10/ECSCCE-Heat-Paper.pdf>

SIGNIFICANT WORKS IN PUBLIC MEDIA

DOCUMENTARY

1. **Organic for All.** Friends of the Earth documentary. Released February 2019. <https://youtu.be/VnAKuMMv9QM>. I was interviewed for the documentary. I provided expert commentary on pesticide biomonitoring.

COVERAGE IN PRINT AND ONLINE NEWS MEDIA

1. **Understanding and responding to food insecurity among college students.** Sept 5, 2017. *UMD School of Public Health News*. <http://sph.umd.edu/news-item/understanding-and-responding-food-insecurity-among-college-students>
2. **15 percent of UMD students face food insecurity, study shows.** Sept 17, 2017. *The Diamond Back*, <https://dbknews.com/2017/09/17/university-of-maryland-public-health-food-insecurity-study/>
3. **SPH's Payne-Sturges and Colleagues Reveal Food Insecurity Among College Students (lead story).** September 17, 2017. *UMD Research Roundup*. <https://publicate.it/p/sNNW7I25846> This story on my food insecurity research was in the top ten most viewed stories on UMD School of Public Health website during 2018-2019 with 314 views. That is notable since it came out in Sept. 2017. Since 2017, it has had 882 views.
4. **Hunger Gains: Campus Pantry Fills Growing Need Among Terps.** January 8, 2018. *Terp Magazine*, <http://terp.umd.edu/hunger-gains/#.XKqRN1VKipr>
5. **Devon Payne-Sturges: Hosted by Hochschule für Gesundheit, Germany.** August 9, 2018. *Fulbright Specialist Profiles*. <https://fulbrightspecialist.worldlearning.org/making-an-impact-all/2018/8/7/devon-payne-sturges-hosted-by-hochschule-fr-gesundheit-germany> . I was interviewed for this article.
6. **Payne-Sturges DC.** November 2018. Hidden Struggles with Food Insecurity on College Campuses. *Office of Minority Health and Health Disparities Newsletter*. Maryland Department of Health. <https://myemail.constantcontact.com/MHHD-November-2018-Newsletter.html?soid=1113704267760&aid=urSAH4exQWl>
7. **Potentially Toxic Insecticides Increasingly Prevalent in Our Food Supply.** Feb 7, 2019. *UMD Research Roundup*. <https://publicate.it/p/dzt.WO67168>. This story was in the top third of stories (ranks 152 out of 518 total stories) that appeared in Maryland Today (campus wide) during the 2018-2019 academic year, with 743 views.
8. **Md. farmers fight to keep pesticide in arsenal despite research on toxic effects.** February 16, 2019. *The Frederick News Post*. https://www.fredericknewspost.com/news/economy_and_business/agriculture/md-farmers-fight-to-keep-pesticide-in-arsenal-despite-research/article_a056b8c1-9b61-50aa-8a41-7fb4f094efff.html. I was interviewed for this article.
9. **Environment and Energy News. EPA urged to gauge neurological price tag of exposure.** February 21, 2019. <https://www.eenews.net/eenewspm/stories/1060121887/search?keyword=Payne-Sturges>. I was interviewed for this article regarding my research and publication on air pollution and children's neurodevelopment.
10. **New Research: Organic Diet Dramatically Reduces Pesticide Exposure.** February 22, 2019. *UMD Research Roundup*. <https://publicate.it/p/ojLbMX69292>
11. **Maryland: Researchers Present Policy Recommendations for Improving Children's Brain Health by Reducing Air Pollution.** March 1, 2019. *ASPPH Friday News Letter*. <https://www.aspph.org/maryland-researchers-present-policy-recommendations-for-improving-childrens-brain-health-by-reducing-air-pollution/>
12. **Unhealthy Air May Be Hurting Kids' Brains: Commentary in AJPH Urges Air Pollution Policies to Protect Child Health.** March 8, 2019. *UMD Research Roundup*. http://sph.umd.edu/news-item/unhealthy-air-may-be-hurting-kids-brains-commentary-ajph-urges-air-pollution-policies?utm_source=Publicate&utm_medium=email&utm_content=...&utm_campaign=190308-EMAIL
13. **Dr. Richard Jackson: When policymakers ignore science, children pay the price.** March 25, 2019. <https://www.ehn.org/dr-richard-jackson-when-policymakers-ignore-science-children-pay-the-price-2632138914.html>. This Environmental Health News – op/ed referenced my publication on air pollution and children's neurodevelopment.

14. **Stop Eating Pesticides: Use CR's exclusive ratings to get the health benefits from fruits and vegetables while minimizing your risk from toxic chemicals.** August 27, 2020. <https://www.consumerreports.org/pesticides-in-food/stop-eating-pesticides/> I was interviewed by Consumer Reports on health effects of pesticides for their report.
15. **Harvesting COVID-19 Best Practices: A Collaborative Research Program Links the Pandemic to Inequities in Agricultural Labor Law.** May 1, 2021. <https://catalystmag.umaryland.edu/harvesting-covid-19-best-practices-a-collaborative-research-program-links-the-pandemic-to-inequities-in-agricultural-labor-law/> University of Maryland Baltimore's Catalyst Magazine did a feature on the novel partnership I had established with a legal scholar at the law school on addressing structural causes of health inequities among migrant and seasonal farmworkers.
16. **A Toxic Legacy.** November 3, 2021. <https://sph.umd.edu/news/toxic-legacy> . School of Public Health highlighted my publication on federal government's slow progress to address cumulative risk and chemical mixtures toxicity.
17. **Defining and Intervening on Cumulative Environmental Neurodevelopmental Risks: A System Dynamics Approach** - Interview with SOT TV at the Society of Toxicology annual meeting in San Diego, CA. March 30, 2022. <https://youtu.be/s6Q3Gsh1Qw8>
18. **In Assessing Environmental Risks to Pregnancy, Fathers Matter Too.** June 22, 2022. <https://today.umd.edu/in-assessing-environmental-risks-to-pregnancy-fathers-matter-too> . University of Maryland highlighted my publication on racial and ethnic disparities in adverse birth outcomes linked to prenatal exposure to air pollution.
19. **\$3.7M NIH Grant to Fund Study of Structural Racism, Pandemic Effects on Farmworkers.** Oct 20, 2022. *MarylandToday*. <https://today.umd.edu/3-7m-nih-grant-to-fund-study-of-structural-racism-pandemic-effects-on-farmworkers>. University of Maryland highlighted my research grant award on addressing structural racism and health among migrant and season farmworkers. UMD also cited my award in the end of year research highlights for 2022.
20. **Low-income, underrepresented populations at greater risk for chemical exposures.** November 7, 2022. <https://www.healio.com/news/neurology/20221107/lowincome-underrepresented-populations-at-greater-risk-for-chemical-exposures>. Coverage of my plenary talk at the American Neurological Association Annual Meeting in Chicago.
21. **Understanding the Science to Better Protect the Public from Cumulative Impacts.** January 23, 2023. <https://blog.ucsusa.org/kellickson/understanding-the-science-to-better-protect-the-public-from-cumulative-impacts/> . Interview with Union of Concerned Scientists about my research and perspective on cumulative environmental health risks and policy reform.
22. **LOW INCOME AND MINORITY CHILDREN RISK IMPAIRED COGNITIVE FUNCTION FROM ENVIRONMENTAL HAZARDS.** September 29, 2023. <https://medicalresearch.com/pediatrics/low-income-and-minority-children-risk-impaired-cognitive-function-from-environmental-hazards/> Interview with MedicalResearch.com.
23. **STAT.** September 27, 2023. [Children of color and from low-income families disproportionately harmed by toxic chemicals, study finds](#)
24. **Environmental Health News.** September 27, 2023. [Black, Hispanic and poor children are more exposed to pollution that ends up harming their brains: Study](#)
25. **Medical Xpress.** September 27, 2023. [Review finds deep disparities in childhood exposure to neurotoxins](#)
26. **Tech and Science Post.** September 27, 2023. [Review finds deep disparities in childhood exposure to neurotoxins](#)
27. **NewsBreak.** September 27, 2023. [UMD Study Reveals Greater Neurotoxin Exposure in Local Low-Income and Minority Children](#)
28. **Maryland Today.** September 27, 2023. [Sweeping UMD Review Finds Deep Disparities in Childhood Exposure to Neurotoxins](#)

29. **Union of Concerned Scientists: The Equation.** September 27, 2023. [Children’s Developing Brains Need Protection from Pollutants.](#)
30. **Urban Health DigiSpace Podcast.** January 9, 2024. <https://urbanhealth-digispace.de/angebote-items/podcast-urban-health/>. I was interviewed by researchers at the Hochschule für Gesundheit, University of Applied Sciences, Bochum, Germany about racism and urban health.
31. **Maryland Research Roundup.** https://research.umd.edu/articles/urban-equity-collaborative-launches-first-cohort-community-fellows-program?utm_source=Publicate&utm_medium=URL&utm_content=...&utm_campaign=240301+-+WEB February 23, 2024. Urban Equity Collaborative Launches First Cohort of the Community Fellows Program: Grand Challenges initiative connects community-based activists with university resources.
32. **Maryland Today.** March 13, 2023. Study: Effective Policies Needed to Curb Hormone-Disrupting Chemicals. UMD Research Reviews Efforts on Bisphenols, Phthalates in Environment. <https://today.umd.edu/study-effective-policies-needed-to-curb-hormone-disrupting-chemicals>
33. **Tech and Science Post.** March 14, 2024. Effective policies needed to curb hormone-disrupting chemicals: Study. <https://techandsciencepost.com/news/earth/effective-policies-needed-to-curb-hormone-disrupting-chemicals-study/>
34. **India Education Diary.** March 15, 2024. Study Urges Effective Policies To Mitigate Hormone-Disrupting Chemicals. <https://indiaeducationdiary.in/study-urges-effective-policies-to-mitigate-hormone-disrupting-chemicals/>
35. **Environmental Health News.** March 22, 2024. Policy is an effective tool in reducing chemical exposure, study confirms. <https://www.ehn.org/chemical-policy-reduces-exposure-2667580798.html>
36. **Deutsche Welle (DW) Media.** April 11, 2024. Weathering: How racism impacts the body on a cellular level <https://www.dw.com/en/weathering-how-racism-impacts-the-body-on-a-cellular-level/a-68694036> . I was interviewed about research showing impact of racism on health.
37. **Consumer Reports.** October 15, 2024. Baby Bottles With No Detected BPA, Lead, or Phthalates. I was quoted on the health effects of phthalates. <https://www.consumerreports.org/babies-kids/baby-bottles/popular-baby-bottles-with-no-detected-bpa-lead-or-phthalates-a1174352020/>
38. **Environmental Science and Technology.** December 17, 2024. The 2023 *Environmental Science & Technology* Best Paper Awards. <https://pubs.acs.org/doi/10.1021/acs.est.4c12812>

PUBLISHED OP/ED AND COMMENTARY

1. **Payne-Sturges D.** March 16, 2018. “Don’t use lanternfly as an excuse to permit dangerous pesticide” [Letter to the editor]. *The Baltimore Sun*. <https://www.baltimoresun.com/news/opinion/readersrespond/bs-ed-rr-pesticide-ban-letter-20180316-story.html>.
2. **Payne-Sturges D.** March 5, 2019. Opinion: Eliminating the Pesticides Inside Us. *Maryland Matters*. <https://www.marylandmatters.org/2019/03/05/opinion-eliminating-the-pesticides-inside-us/>.
3. Liebman A. and **Payne-Sturges D.** May 7, 2020. Opinion: We Must Protect Workers Who Put Food on Our Table. *Maryland Matters*. <https://www.marylandmatters.org/2020/05/07/opinion-we-must-protect-workers-who-put-food-on-our-table/>
4. **Payne-Sturges D.** November 7, 2023. Opinion: Regulation, enforcement and transparency needed to prevent abuse of H2A migrant workers. *The Baltimore Sun*. <https://www.baltimoresun.com/2023/11/07/regulation-enforcement-and-transparency-needed-to-prevent-abuse-of-h2a-migrant-workers-guest-commentary/> University of Maryland highlighted my published op/ed

in *MarylandToday* <https://today.umd.edu/op-ed-regulation-enforcement-transparency-needed-to-protect-migrant-workers>

5. Ferrer E, **Payne-Sturges D**, Sangaramoorthy T, Culley J. June 24, 2024. Guest Opinion: Space to Breath. The Washington Post. <https://www.washingtonpost.com/opinions/2024/06/24/scientific-journals-covid-credibility/>

GRANTS AND FUNDING

ACTIVE

2/25 – current “Designing Early Environments for Equity: Community-University Partnership to reduce cumulative impacts of neurotoxic exposures to protect children’s neurodevelopment (aka DEEP)”

Sponsor: The Health Effects Institute

Role: **Principal Investigator**; Total costs: \$75,000

9/22 - current “Research Employing Environmental Systems and Occupational Health Policy Analyses to Interrupt the Impact of Structural Racism on Agricultural Workers and Their Respiratory Health (RESPIRAR)”

Sponsor: National Institutes of Health (NIH), National Institute of Environmental Health Sciences, R01

Role: **Principal Investigator**; Total costs; \$3.7 million

3/23 - current “Grand Challenge Impact Award: Urban Equity Collaborative (UEC)”

Sponsor UMD VPR’s Office and Office of the President

Role: **Co-Principal Investigator**; Total costs: \$730,000

COMPLETED

6/16 – 9/16 Summer UMD Research and Scholarship Award (RASA)

Role: **Principal Investigator**; Total costs: \$9,000

“Assessing Cumulative Environmental Health Risk for Neurocognitive Outcomes”

1/16-8/18 UMD-Ulster Joint Research Workshop grant

Role: **Co- Investigator**; Total costs: \$30,000

“Beyond Affordable Medical Care and Universal Insurance Coverage: Addressing the Social Determinants of Health to Eliminate Health Inequalities”

06/17-09/18 UMD BSOS Dean’s Research Initiative

Role: **Co-Principal Investigator**; Total costs: \$68,000

“Environmental Governance, Policy, and Regulatory Decision-Making: A Social History of Cumulative Risk Legislation in Maryland”

09/17- 11/17 Fulbright Senior Specialist

Hochschule für Gesundheit, University of Applied Sciences, Department of Community Health, Bochum, Germany

Role: **Principal Investigator**; Total costs: \$6,900

Advised and assisted faculty in the Department of Community Health at the [Hochschule für Gesundheit \(HSG\) - University of Applied Sciences](#) (HSG) in developing course topics and scenarios for digital participatory place analysis on health and analyzing results in the context of cumulative risk assessment and environmental justice for their new “DiPS-Lab” (in German: DiPS stands for “Digitale Methoden partizipativer Sozialraumanalyse”). In addition to curricula

development, I conducted comparative research on social conceptualization and policy development on cumulative risk in Germany and co-hosted small international workshop on cumulative risk.

- 7/19 – 12/21 UMD Catalyst Fund, New Directions.
“Environmental Inequalities in Neurocognitive Development”
Role: **Co-Principal Investigator**; Total costs: \$33,000
- 8/21 – 6/22 “Impact of Climate Change on Neurobehavioral Development Part 1: Identifying Climate Change Markers for Existing Birth and Child Neurodevelopment Cohorts”
Sponsor: UMD Graduate School Faculty-Student Research Award
Role: **Principal Investigator**; Total costs: \$10,000
- 08/18- 06/22 “Systems Science Approaches for Assessing Cumulative Impacts of Air Pollution and Psychosocial Stressors on Neurocognitive Outcomes Among Children”
Sponsor: National Institutes of Health (NIH), National Institute of Environmental Health Sciences (NIEHS) Transition to Independent Environmental Health Research (TIEHR), K01
Role: **Principal Investigator**; Total costs: \$439,358
- 8/22 – 09/22 “Cumulative Impacts Workshop”
Sponsor: Minnesota Pollution Control Agency
Role: **Consultant**; Total costs: \$8,000
- 8/21 – 9/22 “Cumulative Risk Evaluation of Phthalates under TSCA”
Sponsor: Environmental Defense Fund
Role: **Principal Investigator**; Total costs: \$61,273
- 8/22 – 8/24 “Fearless Ideation Workshops: Cumulative Risks/Impacts Policy Solutions Workshops”
Sponsor: UMD VPR’s Office
Role: **Principal Investigator**; Total costs: \$15,000
- 3/22 – 9/24 “Cumulative Risk Evaluation of Phthalates under TSCA: Addressing Relevant Non-Chemical Stressor Exposures”
Sponsor: Environmental Defense Fund
Role: **Principal Investigator**; Total costs: \$63,250

INTRAMURAL RESEARCH ACTIVITIES at U.S. ENVIRONMENTAL PROTECTION AGENCY

COMPLETED

- 11/04 – 11/07 Developed conceptual framework for the interdisciplinary study of racial/ethnic disparities in environmental health and a set of candidate indicators that may be used to track social disparities in environmental health. Resulted in two publications and an award from U.S. EPA.
Role: **Co- Investigator**; Total costs \$110K.
- 3/04 – 10/09 Developed methodology for health-based risk interpretation of pesticide biomonitoring data. Resulted in a publication and awards from U.S. EPA and the journal, Environmental Science and Technology.
Role: **Principal Investigator**; Total costs \$100K.
- 6/11 – 6/12 Evaluated state governmental agency methodologies for disproportionate environmental health impacts assessment. Resulted in a publication.
Role: **Principal Investigator**; Total costs \$60K.

AWARDS AND HONORS

- 2002 Delta Omega Public Health Honor Society, Inducted Alpha Chapter
- 2003 EPA Bronze Medal for Commendable Service for Outstanding Performance and Contribution in Developing and Finalizing EPA's Assessment Factors for Evaluating the Quality of Scientific and Technical Information
- 2005 U.S. EPA, Environmental Justice Award for Science of EJ Working Conference: National Planning Committee
- 2007 QSI Award in Recognition of Outstanding Achievements and High Quality Performance
- 2007 EPA Bronze Medal for Commendable Service for Outstanding Performance and Contribution in Developing and Finalizing U.S. EPA's Roadmap for Mercury, EPA
- 2007 U.S. EPA Scientific and Technological Achievement Award, Level II, for advancing the interdisciplinary study of racial/ethnic disparities in environmental health and cumulative risk.
- 2009 Editor's Choice Award as Environmental Science and Technology's Best Paper 2nd runner up for science.
- 2012 EPA Bronze Medal for Commendable Service for Outstanding Performance and Contribution in Developing and Finalizing U.S. EPA's Six-Year Review of Existing Drinking Water Standards, U.S. EPA
- 2012 U.S. EPA Scientific and Technological Achievement Award, Level III, for 'Advancing health risk interpretation of biomonitoring data for evaluation of policy actions to protect children's health'.
- 2012 Johns Hopkins Woodrow Wilson Award for Government Service
- 2017 Philip Merrill Presidential Scholar Faculty Mentor, University of Maryland
- 2020 Honoree. UMD Research Excellence for demonstrable elevation of the visibility and reputation of UMD Research Enterprise
- 2022 Environmental Health Perspectives Editors' Choice, Environmental Factor, March 2022
- 2023 Honoree. UMD Research Excellence for demonstrable elevation of the visibility and reputation of UMD Research Enterprise
- 2024 American Public Health Association Environmental Health Career Award

FELLOWSHIPS

- 1997 Johns Hopkins School Public Health Pre-doctoral Fellowship
- 1997 Congressional Black Caucus Foundation Public Health Fellow
- 2014-2019 Fulbright Specialist Roster Candidate, Institute of International Education, Council for International Exchange of Scholars
- 2014-2015 ADVANCING Faculty Diversity, University of Maryland
- 2015 Chesapeake Project Fellow, University of Maryland
- 2015 Selected Scholar, Health Equity Leadership Institute. University of Wisconsin-Madison, School of Medicine and Public Health, Collaborative Center for Health Equity & University of Maryland-College Park, School of Public Health, Maryland Center for Health Equity, Madison, WI.

TEACHING, MENTORING AND ADVISING

COURSES TAUGHT AS THE PRIMARY INSTRUCTOR IN THE LAST FIVE YEARS

Spring 2015 SPHL498N Introduction to Environmental Health 32 undergrad students 3 credits

Fall 2015	MIEH 300 MIEH 688	Introduction to Environmental Health Graduate Seminar	52 undergrad students 7 doctoral students	3 credits 1 credit
Spring 2016	MIEH 300 MIEH786 MIEH 789 MIEH 786	Introduction to Environmental Health MPH Capstone Independent Study MPH Capstone	60 undergrad students 1 master's student. 1 master's student 1 master's student	3 credits 3 credits 3 credits 2 credits
Summer 2016	MIEH 609	Methods in Toxicology and Env Health	1 doctoral student	3 credits
Fall 2016	MIEH 300	Introduction to Environmental Health	120 undergrad students and 6 discussion sections	3 credits
	Course Waiver	to redesigned MIEH 770 Environmental Law and Policy for Spring 2017		
Spring 2017	MIEH 770	Environmental Law and Policy	13 graduate students (master's and doctoral)	3 credits.
Fall 2017	Course Waiver	To complete Fulbright Senior Specialist Award in Germany And to redesign MIEH 300		
Spring 2018	MIEH 300	Introduction to Environmental Health	120 undergrad students and 6 discussion sections.	3 credits
	MIEH 770	Environmental Law and Policy	2 master's students	3 credits
Fall 2018	MIEH 300	Introduction to Environmental Health	120 undergrad students and 6 discussion sections	3 credits
	MIEH 309	Independent Undergraduate Research	2 undergrad students	5 credits
Spring 2019	MIEH 309	Independent Undergraduate Research	1 undergrad student	2 credits
Fall 2019	MIEH 789	Independent Study	1 master's student	3 credits
Spring 2020	MIEH 698D	Introduction to Systems Science in Populations Health	6 doctoral students 1 master's students	3 credits
Spring 2020	MIEH 609	Methods in Environmental Health	1 doctoral student	3 credits
Spring 2020	EPIB786	MHP Capstone	1 master's student	3 credits
Summer 2020	MIEH 789	Independent Study	1 doctoral student	3 credits

Fall 2020	MIEH 770	Environmental Law and Policy	7 master's students 1 doctoral student	3 credits
Fall 2020	MIEH 309	Independent Undergraduate Research	1 undergrad students	3 credits
Fall 2021	MIEH 770	Environmental Law and Policy	9 master's students	3 credits
Fall 2021	MIEH 309	Independent Undergraduate Research	1 undergrad student	3 credits
Spring 2022	MIEH 786	Capstone Project in Public Health	1 master's student	3 credits
Spring 2022	MIEH 799	Master's Thesis Research	1 master's student	3 credits
Spring 2022	MIEH 899	Doctoral Dissertation Research	1 doctoral students	3 credits
Summer 2022	MIEH 799	Master's Thesis Research	1 master's student	3 credits
Fall 2022	MIEH 799	Master's Thesis Research	1 master's student	3 credits
Fall 2022	MIEH 770	Environmental Law and Policy	8 master's students	3 credits
Fall 2022	MIEH 899	Doctoral Dissertation Research	2 doctoral students	3 credits
Spring 2023	MIEH 899	Doctoral Dissertation Research	2 doctoral students	3 credits
Fall 2023	MIEH 899	Doctoral Dissertation Research	2 doctoral students	3 credits
Spring 2024	MIEH 770	Environmental Law and Policy	6 master's students 2 doctoral students	3 credits
Spring 2024	MIEH 789	Independent Study	1 master's student	3 credits
Spring 2024	MIEH 899	Doctoral Dissertation Research	2 doctoral students	3 credits

COURSE OR CURRICULUM DEVELOPMENT

MIEH 300 Introduction to Environmental Health. Developed this new core course from scratch for the new undergraduate Public Health Science Program and significantly revised the course as it transitioned from a 30-student MWF lecture course to a 120 student MW lecture and 6 discussion sections course in just 1 year. I use a variety of informational formats in my courses

(e.g., traditional lectures, short videos, documentaries, original research articles, government reports, on-line short courses, etc.) to keep it interesting. A center piece for MIEH 300 is my novel use of journalistic non-fiction as a teaching tool in a science course. In addition to a standard textbook, students are required to read *Toms River: A Story of Science and Salvation* by Dan Fagin. Recent revision to course more closely links lectures and assignments to the story of Toms River and gives students more hands-on experiences with data analysis. Incorporated system dynamics and systems thinking into lectures and hands-on exercises.

- MIEH 770 Environmental Law and Policy. Major redesign to provide students with a firmer foundational understanding of our federalist structure for environmental governance, and opportunities to examine the role of science in policy and practice by applying a structured framework for policy analysis. Based on my research on anti-racism efforts in Germany during my sabbatical in fall of 2023, I further revised this course to include decolonial perspectives. I added lectures and readings on decolonial theories and the colonial roots of present day approaches to environmental law. I revised a major writing assignment to require that students analyze a current legislative amendment, policy decision or regulation using the principles of decolonial theory. I organized a guest lecture from a practicing attorney on the challenges and successes for tribal communities to bring environmental legal cases at state and federal levels in the U.S. Lastly, I included an interactive exercise on critiquing common assumptions about power and policy change.
- MIEH 688 Graduate Seminar. Redesigned to focus more on critical reviews of journal articles with discussions led by students.
- MIEH 698D Introduction to Systems Science in Populations Health. Developed this novel course drawing upon research conducted under my K award.

GUEST LECTURES AT UMD

1. Guest Lecturer. MIEH 740, UMD School of Public Health. "Hazard Identification: The First Step in Risk Assessment". September 2014, 6 students.
2. Guest Lecturer. MIEH 780, UMD School of Public Health. "Health Impact Assessment: An Overview". I provided an overview of the Health Impact Assessment (HIA) framework and guided students through in-class exercise to practice the screening, scoping and pathway diagramming steps for HIA. October 2014. 10 students.
3. Guest Lecturer. MIEH 600, UMD School of Public Health. "Overview of Human Health Risk Assessment: Justifying Probability of Harm". I presented an overview of the risk assessment process, covering hazard identification, dose response, exposure assessment and risk characterization. October 2014, 30 students.
4. Guest Lecturer. Health Equity Module, Legislative Health Impact Workshop. Legacy Leaders. UMD School of Public Health. I presented an overview of Health Impact Assessment methodology. November 2014, 15 students.
5. Guest Lecturer. HLTH 200 Introductions to Research in Community Health, UMD School of Public Health. "Experimental Design: Threats to Internal Validity". October 2015, 60 students.

6. Guest Lecturer. Legacy Leadership Institute on Public Policy. I presented an overview of Health Impact Assessment methodology which participants could apply during their assignments with state legislators. November 2015, 30 students.
7. Guest Lecturer. FMSC 477 Internship and Analysis in Family Science, UMD School of Public Health. "Introduction to measuring food insecurity among college students." April 2016, 7 students and November 2016, 6 students.
8. Guest Lecturer. MIEH 600 Introduction to Environmental Health. "Environmental Health Policy and Decision-making", Dec 2017, April 2018, Dec 2018, Nov 2019. Approx 20 students each session.
9. Guest Lecturer. PSYC489 Advanced Special Topics in Psychology, Department of Psychology. "Addressing Food Insecurity in Higher Education". April 30, 2019. 40 students.
10. Guest Lecturer. PLCY689L Public Policy Topics; Influence of Science on Policy, and of Policy on Science. "Cumulative Risk Policy". April 11, 2023. 34 students.
11. Guest Lecturer. MIEH 771 Exposure Assessment in Environmental Health. "Count Chemicals, Not Just Calories": Assessing Cumulative Chemical Exposures and Risks". April 20, 2023. 15 Students.

GUEST LECTURES OUTSIDE UMD

1. Guest Lecturer, "U.S. EPA's IRIS Database: Intersection of Science and Policy." Quantitative Risk Assessment Course - Case Studies in Dose-Response. Johns Hopkins Bloomberg School of Public Health. April 17, 2002.
2. Guest Lecturer. "Environmental Health Disparities." Environmental Health course. School of Public Health, University of Maryland, College Park, Maryland, April 2008.
3. Guest Lecturer. "Environmental Justice and Health Disparities." Introduction to Children's Health and the Environment course. School of Public Health, George Washington University, Washington, D.C., November 2007; April 2010; Sept 2013.
4. Guest Lecturer. "Race Isn't Biological But Racism is Still Real." TOX 564: Societal Determinants of Neurotoxicity. Rochester Medical Center. April 8, 2021.

UNDERGRADUATE RESEARCH ADVISING

UNDERGRADUATE STUDENTS, THESIS COMMITTEE CO-CHAIR

Alexandra Crowe April 2017 – May 2019; B.S. in Biomedical Sciences and minor in Sustainability. Arizona State University. Honors Thesis "Sustainability Practices of University Food Pantries in the US". Currently Director of Operations at State 48 Development Consulting.

UNDERGRADUATE, MAJOR ADVISOR ON SPECIAL RESEARCH PROJECTS

Sophie Dean September 2015 – December 2015; Double major, B.S. Public Health Science and B.A. English. Received 2016 UMD Library Award for Undergraduate Research. I nominated her persuasive essay, "The Detrimental Effects of Dietary Supplements," that was an assignment in my MIEH 300 course. Currently working as a Strategic Communications Specialist at National Institutes of Health Office of Extramural Research

Devon Donovan September 2015- May 2016; B.S. Public Health Science. Conducted literature searches on EDCs and summarized results. Completed MPH in Epidemiology at Karolinska Institutet, Sweden.

Glory Owe	September 2018 – May 2019; B.S. Public Health Science. Conducted evaluation of the implementation of the Maryland Pollinator Protection Act which prohibits all retail sales and consumer use of neonicotinoids in the state of Maryland. <u>Her poster won 2nd place in student poster session for the Environment Section at APHA November 4, 2019 and won 5th prize at Maryland State Fair 2019. Currently working as a biostatistician at The Henry M. Jackson Foundation for the Advancement of Military Medicine.</u>
Rebecca Elspas	September 2018 – May 2019; B.S. Public Health Science. Designed, conducted and analyzed survey of young adults' use of personal care products that contain endocrine disrupting chemicals (EDCs) and their knowledge of the health effects associated with EDCs. <u>Completed her nursing degree at Columbia University and worked as a labor and delivery nurse at Sibley Memorial Hospital in New York. Now pursuing her Doctor of Nursing Practice - Family Nurse Practitioner program (DNP-FNP) at the University of Washington</u>
Shifali Matthews	May 2019 – August 2019; B.S. Public Health Science. Examining health equity and environmental justice considerations in EPA's Integrated Risk Information System (IRIS) chemical assessment process. Awarded HHS Office of Minority Health, Health Equity Fellowship 2019. <u>Completed MPH in environmental health Fall 2021 and is currently a doctoral student at the Johns Hopkins Bloomberg School of Public Health.</u>
Janet Martinez	June 2019 – August 2019 B.A. in Psychology. California State University San Marcos. Participant in UMD BSOS Summer Research Initiative. Awarded the Leonard and Jean Evers Scholarship and the Frank D. Hernandez Scholarship. <u>Completed B.A. in December 2019 and currently a Community Health Navigator at MedZed Physicians Inc., San Diego, California.</u>
Alix MacKillop	Aug 2020 – December 2020. B.S. Public Health Science. Conducted literature reviews on COVID and residential segregation. <u>Self-employed</u>
Alexander Schmidt	January 2021 – December 2021. B.S. Public Health Science and statistics major. Conducted literature reviews and developing annotated bibliography air pollution and neurological disorders. <u>Currently enrolled in master degree program in data science at UMD.</u>
Saratu Kehinde	June 2023 – August 2023. B.S. Public Health Science. Assisted with laboratory analysis of nasal samples collected for RESPIRAR Project. <u>Currently in final year of undergraduate program and plans to apply to medical school.</u>

UNDERGRADUTE, ADVISING

Kirby Rhodes	Jan 2016 – May 2016; Double major B.S. Public Health Science and B.S. Finance. Received the 2017-2018 Philip Merrill Presidential Scholar Award. I was named as the faculty mentor who has had the greatest impact on her academic achievement. <u>Currently working as a Financial Analyst at UnitedHealth Group in Baltimore.</u>
Gemstone Team	Dec 2017 – February 2018; Expert review committee for Team E-JUSTICE thesis "Investigating Flood Risk and Environmental Injustice in Maryland"
Anisha Carr	September 2018 – January 2019; B.S. Public Health Science. <u>Currently working as Personal Support Worker with the Arc Central Chesapeake Region and pursuing degree in Occupational Therapy at Towson University.</u>

MASTER OF PUBLIC HEALTH (MPH) STUDENTS, CHAIR, COMMITTEE MEMBER AND/OR MAJOR ADVISOR

MASTER STUDENTS, MAJOR ADVISOR AND COMMITTEE CHAIR

Yue Ma	September 2014 – May 2016; MPH in Environmental Health Sciences: Capstone Project titled: “Association between PCB and obesity in among US children and adolescents.” <u>Worked as a data analyst for Sanofi, a pharmaceutical company.</u>
Winnie Mutunga	September 2015 – May 2017; MPH in Environmental Health Sciences: Capstone Project titled: “The Use of Malachite Green in Aquacultured Catfish by Fish Importing Countries.” <u>Currently working as a nurse.</u>
Darya A. Dokshina	January 2018 – August 2018; MPH in Environmental Health Sciences: Capstone Project titled “Rapid Health Impact Assessment for a Proposed Concentrated Animal Feeding Operation in Cecil County, Maryland.” <u>Currently a Research Specialist, Department of Epidemiology, University of Michigan School of Public Health.</u>
Rebecca Patterson	September 2016 – Dec 2018; MPH in Environmental Health Sciences: Thesis titled “Antimicrobial Resistance of Enterococci in Surface and Recycled Water in the Mid-Atlantic”. Public Health Research @ Maryland, Honorable Mention Poster Award (April 2018). <u>Currently a doctoral student in my lab at UMD School of Public Health</u>
Kathryn Hirabayashi	Oct 2018 – May 2020; MPH student in Epidemiology: Capstone Project titled: “Health Disparities in Exposures to Chemicals and Pollutants Affecting Neurodevelopment: A Hybrid Systematic-Scoping Review.” <u>Currently working as data analysts for the Maryland Department of Health.</u>
Brad Newkirk	May 2017 – Dec 2020; MPH student in Environmental Health Sciences
Rosemary Ezeugoh	December 2021 – May 2022; M.S. student in Environmental Health Sciences; Thesis titled: “Exploring risk assessment methods to examine neurological risk due to air toxic exposure in Minnesota”. Graduated May 2022. <u>Currently working as Psychiatric Rehabilitation Services Coordinator at Americare Therapeutic Center.</u>
Jessica Snyder	December 2020 – May 2023; M.S. student in Environmental Health Sciences: Thesis titled: “Examination of the Associations Between Selected Perfluoroalkyl Substances and their Isomers with Body Weight in Adolescents Using NHANES 2013-2018” <u>Currently working as an industrial hygienist within the FDA's Office of Pharmaceutical Quality.</u>
Gabrielle Sanchez	January 2022 – May 2024; MPH student in in Environmental Health Sciences: Capstone Project titled: “The Case for Monitoring Paraquat Exposures”.
Sulakhana De Saram	August 2022 – May 2023; MPH student in Environmental Health Sciences: Capstone Project titled: “Assessing the Cumulative Risk of Phthalates in Reproductive Age Women in the United States.” <u>Currently working as project assistant for an NIH-funded study evaluating modes of influenza transmission at UMD School of Public Health.</u>
Maria Del Mar Chiesa	December 2022 – May 2023; MPH student in in Environmental Health Sciences: Capstone Project titled: “Developing a Website for the Project RESPIRAR: Science Communication for a Large Interdisciplinary Research Project on the Health of Migrant and Seasonal Farmworkers.” <u>Currently working as Spanish language translator at Johns Hopkins Hospital.</u>
Jan-Michael Archer	August 2024 – December 2024; M.S. student in Environmental Health Sciences: Thesis titled: Air Grievances: A Characterization of Knowledge, Dissatisfaction, and Selg-Efficacy Regarding Air Pollution in An Environmentally Oppressed Region of West Atlanta, Georgia, USA.” Student ultimately decided to finish with an M.S. for personal reasons.

Graduated December 2024. Currently working as an organizer for the Maryland State Education Association.

Leland Hannapel May 2024 – December 2024; MPH student in Health Equity: Capstone Project titled: “The Impact of the H-2A Visa Program on Migrant Agricultural Workers Along the Eastern Shore of Maryland.” Graduated December 2024.

MASTER STUDENTS, COMMITTEE MEMBER

- Juliet Perez September 2014 – May 2016. MPH in Environmental Health Sciences: Capstone Project titled: “Indoor Environmental Health Risk Profile and Health Literacy among Latinos in Langley Park, MD”. Currently working as an Executive Administrative Assistant at Baker in Washington, DC.
- Kim Stinchcomb September 2015 – May 2016. MPH in Environmental Health Sciences: Capstone Project titled: “College Park-Riverdale Park transit district development plan health impact assessment: An assessment of climate-change-related health impacts.” Currently working as the Manager of Community Impact and Assessment for Prince George’s County Health Department.
- Ellen Rigterink January 2017 – Aug 2017; MPH in Epidemiology: Capstone Project titled: “Prenatal Exposure to Bisphenol A and Risk of Childhood Obesity: A Systematic Review of Nine Birth Cohort Studies”. Currently a retired physician (pediatrician and pediatric hospitalist).
- Christopher Cairns September 2017 – May 2018; MPH in Epidemiology: Capstone Project titled: “Comparing Blood Methyl Mercury Levels in Healthy U.S. Adults Versus Adults with Arthritis and Rheumatoid Arthritis: NHANES 2013-2014”. Received Leidos Fellowship in 2018 to support his research for his MPH. Currently a Health Statistician for the Centers for Disease Control and Prevention.
- Rosemary Ezeugoh January 2018 – May 2018; MPH in Environmental Health Sciences: Thesis titled “Air Quality Assessment of Residential Exposure to Particulate Matter and Volatile Organic Compounds Near a Concrete Block Plant and Traffic in Bladensburg, Maryland”. Currently working as Psychiatric Rehabilitation Services Coordinator at Americare Therapeutic Center.
- Tolu Ogungbesan September 2018 – May 2019; MPH in Epidemiology: Capstone Project titled: “Hypertension prevalence among African Immigrants to the United States by Country/Region of Origin: a Literature Review”. Currently working as an Emergency Medicine Scribe at ScribeAmerica.
- Samantha Ammons September 2018 – May 2019; MPH in Epidemiology: Thesis titled “Using the Index of Concentration at the Extremes to Examine the Impact of Air Pollution Exposure on Infant Mortality in the United States”. Currently a pursuing doctoral degree in environmental health sciences at George Washington University and recipient of predoctoral fellowship from the National Cancer Institute.
- Lauren Pavone November 2018 – May 2021; MS in Nutrition and Food Science: Thesis proposal titled “Formative Research of the Food Waste Environment in the University Setting and Its Implications Toward a Sustainable Food System.” Currently working as a registered dietitian at Children’s Hospital in Washington, DC.
- Aaliyah Robertson September 2020 – May 2021; MPH in Epidemiology: Capstone Project title: “A Review of the Association between Short-chain PFAS and Birth Outcomes”. Graduated May 2021.

Currently works as an epidemiologist with Calvert County Health Department in Maryland.

- Melissa Garcia September 2021 – May 2022; MPH in Epidemiology: Capstone Project titles: “A review of the impact of the COVID-19 pandemic on household food insecurity among American Indians and Alaskan Natives.” Graduated May 2022. Currently working as a scientific program analyst with the National Institute on Drug Abuse.
- Shifali Mathews June 2021 – December 2021; MPH in Environmental Health Sciences: Capstone Project titled: “Climate Change and Health Recommendations for Frederick, Maryland: Findings from the Health, Extreme Weather Adaptation, and Resilience (HWR) Sub-group.” Graduated December 2021. Currently in a PhD student in environmental health at Johns Hopkins Bloomberg School of Public Health.
- Lucy Aistis January 2021 – December 2021; MPH in Environmental Health Sciences: Capstone Project titled: “Evaluation of phenology metrics to reduce asthma hospitalization in New York: A comparison of remote-sensing satellite, aerobiology, and in-situ observations.” Graduated December 2021. Currently working as an Environmental Protection Specialist at The National Institutes of Health.
- Alyssa Pitt May 2022 – May 2023; MPH in Environmental Health Sciences: Capstone Project titled: “Does Recent Climate Policy Adequately Support Children’s Health? An Analysis of Mid-Atlantic Climate Policy (2013-2022).” Graduated May 2023. Currently working as Governor’s Fellow in the New Jersey Department of Agriculture.
- Sylvia Costa December 2022 – May 2023; MPH in Environmental Health Sciences: Capstone Project titled: “Factsheet on Handwashing and Personal Protective Equipment (PPE) Use in Life Science Labs.” Graduated May 2023. Currently working as a human health risk assessor for the consulting firm AECOM in New York City.
- Katherine Heydorn December 2022 – May 2023; MPH in Environmental Health Sciences: Capstone Project titled: “Forever Exposed? An Investigation of PFAS Drinking Water Exposure in Maryland Communities Near Contaminated Military Sites.” Graduated May 2023. Currently working at UMD as researcher on dietary supplement content for the USDA-ARS Methods and Application of Food Composition Laboratory Food and Nutrition Research group.
- Tahriq Bailey June 2023 – May 2024; MPH in Epidemiology: Capstone Project title: “Assessing the Association Between Stress and Living / Wage Characteristics in Migrant Farmworkers on the Eastern Shore of Maryland.” Graduated May 2024.
- Barrie Pasternak September 2024 – December 2024; MPH in Environmental Health Sciences: Capstone Project titled: “An Integrated Assessment of Occupational Heat Safety in Maryland.” Graduated December 2024.

MASTER STUDENTS, MAJOR ADVISOR ON SPECIAL RESEARCH PROJECTS

- Clara Richards January 2016 – May 2017; MPH student in Behavioral and Community Health. Mentored her on plan of study (course work) and problem statement for her capstone project on food insecurity. Currently Program Manager with Community Cooperative consulting.
- Yue Ma, January 2017 – May 2017; MPH in Environmental Health Sciences. Conducted literature review on thyroid effects of BPA exposures which informed R21 grant submission Feb 2017. Worked as a data analyst for Sanofi, a pharmaceutical company.

- Helen Mittmann May 2017 – September 2018; MA in Anthropology. Conducted ethnographic research and content analysis of cumulative impacts legislation in Maryland to examine the scientific, social, and political framings of cumulative impacts and risk. Currently a Senior Research Associate with the Funders Forum on Accountable Health, a program at GWU's Milken Institute School of Public Health and graduated with a doctoral degree in public policy in 2022.
- Alina Majid April 2021 – August 2022. MPH student in Behavioral and Community Health. Mentored and supervised her for her MPH internship activity to develop “report-back” materials for families participating in the BENCH Study on children’s exposure to air pollution and impact on cognitive functioning. Currently working as Communications Fellow in the Office of the Associate Director of the Healthcare Delivery Research Program at the National Cancer Institute.
- Sulakkhana De Saram Sept 2021 – May 2023; MPH student in Environmental Health Sciences and was a Graduate Research Assistant on my cumulative risk and phthalates project. Currently working as project assistant for an NIH-funded study evaluating modes of influenza transmission at UMD School of Public Health.
- Tahriq Bailey June 2023 – Aug 2023; MPH in Epidemiology; Worked as a summer field research intern on my migrant and seasonal farmworker project, RESPIRAR. Developed skills in administering surveys using REDCap and collecting biological samples. Graduated May 2024.
- Taeilora Young June 2023 – Aug 2023; MPH in Epidemiology; Worked as a summer field research intern on my migrant and seasonal farmworker project, RESPIRAR. Developed skills in administering surveys using REDCap and collecting biological samples. Graduated Fall 2024.

DOCTORAL STUDENTS, COMMITTEE MEMBER OR CHAIR, PRIMARY MENTOR OR OTHER RESEARCH MENTOR

DOCTORAL EXAMINING COMMITTEE MEMBER

- Jessica Montresor-Lopez Fall 2015 – Spring 2019; PhD program in Toxicology and Environmental Health; Dissertation titled “Exposure to Ambient Air Pollution and Correlates of Cardiovascular Disease among Youth with Type 1 Diabetes.” Currently employed in a project management position with University of Maryland.
- Rianna Murray Fall 2015-Fall 2018; PhD program in Toxicology and Environmental Health; Dissertation titled “Private Drinking Water Wells and Animal Feeding Operations.” Currently Assistant Research Professor with MIAEH, UMD School of Public Health.

Richard Remigio	Summer 2019 – Spring 2020; PhD program in Environmental Health Sciences. . " <u>Currently a Postdoctoral Research Fellow, National Cancer Institute at National Institutes of Health.</u>
Michele Morgado	Summer 2021; PhD in Environmental Health Sciences. Dissertation titled "Investigating Long-Term Trends in Vibriosis Severity and Risk Associated with Extreme Weather Events, Water Recreation Activity, and Awareness of Risk: A Mixed Methods Study." <u>Graduated December 2023 and currently a Postdoctoral Research Fellow with UMD SPH Global FEWture Alliance.</u>
Emma Chad-Friedman	Spring 2021 – Spring 2022; PhD in Psychology. Dissertation titled "Parental Depressive Symptoms, Child Depressive Symptoms and Parenting: Reciprocal Relations from Early Childhood Through Adolescence." <u>Graduated May 20, 2022. Recently completed psychology internship at Children's National Hospital in Washington, DC.</u>
Nicole Sieck	Spring 2022; PhD in Environmental Health Sciences. Qualifying Exam "Wildfire PM2.5 and Birth Outcomes."
Samantha Hubachek	Spring 2022 - Spring 2023; PhD in Psychology. Dissertation titled "Early Adolescent Romantic Experiences and Psychosocial Functioning in Sexual Minority Youth." <u>Graduated August 1, 2023. Currently an intern with Children's Hospital of Los Angeles.</u>
Katherine Dixon	Spring 2024 – Fall 2024; PhD in Environmental Health Sciences. Qualifying Exam "Exploring Impact of Sanitary Sewer Overflows (SSOs) on Pathogen Presence in Urban Parks."

DOCTORAL STUDENTS, MAJOR ADVISOR

Kaley Beins	Fall 2016-Fall 2017; PhD in Toxicology and Environmental Health. Received the 2017 School of Public Health Dean's Fellowship. Student ultimately decided to finish with an MPH for personal reasons. <u>Currently employed as a senior scientist with the Environmental Working Group in Washington, DC.</u>
Natalie Crnosija	Fall 2019 – Summer 2024; PhD in Environmental Health Sciences. Dissertation titled "Environmental Exposures and Children's Health." Received the 2019 School of Public Health Dean's Fellowship, NSF-NRT Global STEWARDS Fellow for 2021 and named a 2023 Dean's Scholar Award recipient. Advanced to candidacy Fall 2021. <u>Graduated August 2024 and currently working in Post-Doc position with the University of Illinois-Chicago School of Medicine, Department of Pediatrics.</u>
Rosemary Ezeugoh	Spring 2020 – Fall 2021; PhD in Environmental Health Sciences. Student ultimately decided to finish with an MS for personal reasons. <u>Currently working as Psychiatric Rehabilitation Services Coordinator at Americare Therapeutic Center.</u>
Jan-Michael Archer	Spring 2022 – Summer 2024; PhD in Environmental Health Sciences. Agents of Change in Environmental Justice 2022 Fellow. Advanced to candidacy Fall 2022. Dissertation titled

“Leveraging Community-Generated Measurements for Better Cumulative Risk Assessment and Air Pollution Regulation in Environmental Justice Communities: An Atlanta, Georgia case study.”

Rebecca Patterson Fall 2022 – Fall 2024; PhD in Environmental Health Sciences. NSF-NRT Global STEWARDS Fellow for 2022 and recipient of the Tillman Scholarship from the Pat Tillman Foundation for remarkable military service members and veterans.

Wesley Wiggins Fall 2023 – Fall 2024; PhD in Environmental Health Sciences.

Catherine Corey Fall 2022 – present; PhD in Environmental Health Sciences. Wait Family Scholarship recipient Spring 2024. Advanced to candidacy Fall 2024.

DOCTORAL STUDENTS, MAJOR ADVISOR ON SPECIAL RESEARCH PROJECTS

Natalie Crnosija Fall 2019 – Spring 2024; Graduate Research Assistant for BENCH study; conducting data analysis and leading field work assessment children’s exposure to air pollution and impacts on cognitive functioning. Resulted in 2 publications.

Josh Medrano Fall 2019 – Spring 2024; doctoral student in College of Education and ; Graduate Research Assistant for BENCH study on children’s exposure to air pollution and impacts on cognitive functioning. Graduated May 2024 and is now a Postdoctoral Scholar at Kent State University

Nicole Sieck Summer 2020 – Fall 2023; doctoral student in Environmental Health Sciences; conducting systematic literature review on interventions to reduce human exposures to endocrine disrupting chemicals. Manuscript accepted for publication in Environmental Health Perspectives in January 2024.

Michele Morgado and Danielle Marie Delp 2020-2021 Global Stewards project on addressing information gaps on pesticide use in Maryland.

Jennifer Morash and Aimee Malzahn Spring 2021 Global Stewards project on scoping cumulative risk assessment for Class A biosolids

Jan-Michael Archer Fall 2022 – Spring 2024; Graduate Research Assistant for Cumulative Risk/Impacts Policy Solutions Project. Assisted with designing and co-moderating unique interactive interdisciplinary workshop with legal, policy, risk assessment, environmental health sciences experts to identify implementable policy solutions at local, state and national levels. Prepared a manuscript describing the workshop and outcomes from the workshop on creating a national strategy to prevent cumulative risks and impacts within current legal mechanisms.

Haley Mullen Spring 2023 – Fall 2024; doctoral student in geography. Assisted with scoping review on neurodevelopmental disparities associated with exposure to 7 neurotoxicants and was

co-author on article published in EHP. This article received significant media attention. Currently assisting with creating digital story maps for RESPIRAR Project on the history and dreadful conditions of migrant agricultural labor camps on the Eastern Shore, Maryland.

Wesley Wiggins Fall 2023 – Fall 2024; Graduate Research Assistant for the Urban Equity Collaborative (UEC). Organizes and hosts UEC monthly trainings and workshops addressing UEC core topic areas of urban inequity related to quality affordable housing, immigrant rights, and small business displacement. Additionally conducting research on climate change stressors impacting migrant agricultural labor camp locations on the Eastern Shore, Maryland.

Catherine Corey Spring 2023 – Fall 2024; Graduate Research Assistant for phthalate cumulative risk project. Developed and applied an approach for quantitatively assessing the cumulative risk impacts for the seven phthalates undergoing risk evaluation under TSCA taking into account both chemical and non-chemical stressors.

OTHER MENTORING

SUPERVISED GRADUATE TEACHING ASSISTANTS FOR MIEH 300, A LARGE ENROLLMENT UNDERGRADUATE CORE COURSE

Paul Jacob Bueno de Mesquita, MIAEH PhD, Spring 2015; 10 hrs per week

Katrina Bibb, MIAEH MPH, Fall 2016; 20 hrs per week

Rianna Murray, MIAEH PhD, Fall 2015, Spring 2016, Fall 2016 and Fall 2018; 20 hrs per week

Rebecca Patterson, MIAEH MPH, Spring 2018; 20 hrs per week

Rosemary Ezeugoh, MIAEH MPH, Spring 2018 and fall2018; 20 hrs per week

CONTRIBUTION TO LEARNING OUTCOMES ASSESSMENT

2015- 2016 Developed and conducted learning outcomes assessment for MIEH 300 for a campus-wide evaluation. The process included identifying most important learning objectives and rubrics to assess how well students were meeting the objectives.

SERVICE AND OUTREACH

EDITORSHIPS

2010 – 2011 Guest Editor, American Journal of Public Health, Dec 2011 issue dedicated to health disparities and environmental justice.

2014- 2016 Guest Editor, Special Issue on Eliminating Health Disparities to Achieve Health Equity, International Journal of Environmental Research and Public Health.

2020 – present Associate Editor, Environmental Health Perspectives

REVIEWING ACTIVITIES

MANUSCRIPT REVIEW FOR PEER-REVIEWED JOURNALS (listed alphabetically)

American Journal of Men's Health

American Journal of Public Health

BMC Public Health

Environmental Health Perspectives
Environment International
Environmental Justice
Environmental Research
Human and Ecological Risk Assessment
International Journal of Environmental Research and Public Health
Journal of Environmental Management
Journal of Epidemiology and Community Health
Journal of Health and Social Behavior
PlosOne
Science of the Total Environment
Social Science and Medicine
Reviews on Environmental Health

REVIEWING ACTIVITIES FOR AGENCIES, FOUNDATIONS AND OTHER

1999	National Institute of Environmental Health Sciences, Appointed to Environmental Justice Special Emphasis Panel.
2007	US EPA STAR grant relevancy review panel for children’s health research center proposal.
Jan - Sept 2013	Expert Panel member, International Joint Commission on the Great Lakes, Health Professionals Advisory Board, review development of indicators and proposals for merging health and environmental databases to aid surveillance.
Sept 2013	Provided expert comments and advice on development of an air pollution and health study for Western Cape Province, South Africa.
April 2015	Provided technical review comments. Draft Cumulative Impacts Study Plan. Maryland Environmental Health Network.
May 2015	Provided technical review comments of draft report. “Analysis of Cumulative Risk Assessment Use by EPA Program Offices and Regions.” EPA’s Risk Assessment Forum Cumulative Risk Technical Panel.
January 2017	Provided external scientific review for Mt. Sinai P30 center grant application to NIEHS, The Mount Sinai Transdisciplinary Center on Early Environmental Exposures Community Outreach and Engagement Core (COEC).
Dec 2017	Advised Virginia Tech faculty on a developing a community survey for their initiative (“Ecological and Human Health in Rural Communities”) to understand relationships between the environment and well-being of rural communities with an initial focus in Central Appalachia
April 2018	Provided expert review of strategic plan for the German Environmental Survey (GerES), a population-representative human environmental biomonitoring program for Germany.
January 2019	Provided expert review of American Public Health Association proposed policy statement, Addressing Environmental Justice to Achieve Health Equity.
February 2021	NIH Neurological, Aging and Musculoskeletal Epidemiology Study Section
June 2021	Peer Review Panel EPA’s draft Planning and Scoping Guidelines for Cumulative Risk Assessment
Dec 2021	Mt. Sinai NIEHS P30 Center External Advisory Board
May 2023	Ad Hoc Reviewer for US EPA Science Advisory Committee on Chemicals (SACC). Provided expert review of EPA’s “Draft Proposed Principles of Cumulative Risk Assessment under the Toxic Substances Control Act” and “Draft Proposed Approach for Cumulative Risk Assessment of High-

Priority Phthalates and a Manufacturer-Requested Phthalate under the Toxic Substance Control Act”

COMMITTEES, PROFESSIONAL & CAMPUS SERVICE

DEPARTMENTAL SERVICE

2014 – 2015 MIAEH Awards Committee Chair
2015 – 2016 MIAEH Director Search Committee Member
2018 Public Health Science Program Instructor Search Committee Member
2015 – 2018 MIAEH Executive Committee Member
2019 – 2020 MIAEH Director Search Committee Member
2021 – 2022 MIAEH Graduate Director Search Committee
2022 – 2023 MIAEH Open Rank Faculty Search
2022 – 2023 Chair, 3-year review committee for tenure track faculty member

SCHOOL-WIDE SERVICE

2014 – 2017 Public Health Science Program Steering Committee, Member and MIAEH Representative
2014 – 2015 MPH Health Equity Concentration Committee Member
2015 Organized and co-hosted SPH Grand Rounds Lecture with Tom Fagin, Pulitzer Prize winner and author of Toms River: A Story of Science and Salvation. Nov 12, 2015
2015 – 2016 MIAEH Director Search Committee Member
2016 – 2017 Undergraduate Career Development Task Force Member
2019 – 2020 MIAEH Director Search Committee Member
2022 – present School of Public Health Research Committee

UNIVERSITY SERVICE

2014 - 2017 UMD Campus Pantry Advisor and Volunteer. I also conducted data analysis of UMD Food Pantry clients and led first ever food insecurity survey of UMD undergraduates.
2017 Banneker/Key Scholarship Selection Committee
2018 Honors Gemstone Proposal Review Committee
2020 Campus SARS-CoV2 Environmental Surveillance Co-Lead. Supervised air monitoring team.
2021 - 2023 Curriculum development committee for new undergraduate environmental justice concentration under College of Agriculture’s Environmental Science and Policy program. New concentration was approved by campus with enrollment starting Fall 2024.

PROFESSIONAL COMMUNITY SERVICE

2004 - 2012 Appointed Member. U.S. EPA’s Risk Assessment Forum (RAF).
2011- 2014 Executive Committee, Federal Collaboration on Health Disparities Research (FCHDR).
2013 Expert Panel Member, Health Professionals Advisory Board, International Joint Commission on the Great Lakes.
2015 - present Co-chair of air pollution and health disparities working group (until 2023) under Project TENDR (Targeting Environmental Neurodevelopmental Risks), a national consortium of leading scientists, health professionals and children’s and environmental advocates. Currently active workgroup member.
2016 - 2017 Appointed by Maryland State Senator Shirley Nathan-Pulliam to serve on the Maryland Health in All Policies Workgroup. This workshop was established under SB340 to study

	and make recommendations to units of state and local government on laws and policies that will positively impact the health of residents of the state.
2016 - 2019	Member, External Scientific Advisory Board, NIH-EPA funded Center for Research on Environmental and Social Stressors in Housing Across the Life-Course, Harvard and Boston Universities.
2016 - 2019	Appointed by U.S. Health and Human Services Secretary Burwell to serve on the Board of Scientific Counselors for the National Center for Environmental Health/Agency for Toxic Substances and Disease Registry. 3 year term.
2019 – 2024	Appointed to National Academy of Sciences Environmental Health Matters Initiative (EHMI) Standing Committee. The purpose of this initiative is to enhance the nation's ability to alleviate harmful environmental impacts on human health. The EHMI is a new mechanism for scientific experts and leaders in the corporate world, government, academia, and other sectors to work together to examine available information and catalyze innovative solutions to alleviate the nation's most significant environmental health challenges. Re-appointed for third term.
2020 - 2023	Inaugural Co-Chair, Anti-Racism Task Force. International Society for Environmental Epidemiology. The purpose of this new initiative is to advance understanding of structural racism in environmental exposures and their health impacts (i.e., what knowledge is produced); and to address the institutional racism that exists within the field of environmental epidemiology (i.e., who gets to produce the knowledge, whose knowledge is valued). Established Task Force Terms of Reference and multi-year workplan and secured approval by ISEE Executive Council within 6 months.
2021- 2021	International Society for Environmental Epidemiology 2021 Scientific Committee
2021 - 2022	Appointed to The Mid-Atlantic Center for Children's Health and the Environment (MACCHE) Council of Advisors
2021 - present	Steering Committee Member, Navigation Guide Evidence-to-Decision Framework, a project of the Program on Reproductive Health and the Environment, UCSF
2021 - 2024	Appointed to Board of Scientific Counselors for the National Toxicology Program
2021 - 2023	Appointed to NIH Adolescent Brain Cognitive Development (ABCD) Study Linked External Data Workgroup
2023 - present	Council Member, Early Childhood Scientific Council on Equity and the Environment, Center on the Developing Child at Harvard University

BOARD MEMBERSHIPS

2001 – 2011	Board Member, Council on Education for Public Health, appointed by the American Public Health Association.
2013 – 2016	Board Member and annual meeting planning committee. Community Indicators Consortium.
2019 – 2022	Board Member, Maryland Pesticide Education Network (MPEN).

OTHER SERVICE

Feb 2018	Provided written oral testimony to MD House Environment and Transportation Committee on the HB 116 to ban chlorpyrifos and provided written testimony to MD
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	Senate Education, Health and Environmental Affairs Committee on the SB 500 to ban chlorpyrifos.
Feb 2019	Provided written oral testimony to MD House Environment and Transportation Committee on the HB275 to ban chlorpyrifos and provided written testimony to MD Senate Education, Health and Environmental Affairs Committee on the SB270 to ban chlorpyrifos.
Feb 2020	Provided written oral testimony to MD House Environment and Transportation Committee on the HB229 to ban chlorpyrifos and provided written testimony to MD Senate Education, Health and Environmental Affairs Committee on the SB300 to ban chlorpyrifos.
May 2020	Provided expert Testimony on health effects of chlorpyrifos, Baltimore City Council on Councilwoman Clarke's Pesticide Control and Regulation.

OTHER INFORMATION

PROFESSIONAL DEVELOPMENT

July 2011	U.S. Office of Personnel Management Supervisory Development Seminar Fundamentals, Shepherdstown, West Virginia.
April 2012	U.S. Office of Personnel Management Supervisory Development Seminar, Learning to Lead, Shepherdstown, West Virginia.

PROFESSIONAL TRAVEL

Nov 13-18, 2010	American Public Health Association (APHA) Delegation to Cuba. The purpose of our visit was to research and learn about effectiveness and structure of public health systems in Cuba and dialogue with our Cuban public health counterparts. I visited the Cuban National School of Public Health, Latin American Medical School, National Oncology Institute, a maternity home and community health clinics. Our observations, recommendations and opportunities for collaboration were presented at APHA Annual Meeting (2011) and published in American Journal of Public Health (July 2013, Vol. 103, No. 7: pp. 1168-1171).
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