

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 July 22, 2019

PERSONAL INFORMATION

Assistant Professor
Maryland Institute for Applied Environmental Health
School of Public Health
University of Maryland, College Park
2234L School of Public Health
4200 Valley Drive
College Park, MD 20742
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Researcher IDs

Google Scholar: <https://scholar.google.com/citations?user=IFx4ZQ0AAAAJ&hl=en>

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ACADEMIC APPOINTMENT

8/2014–Present 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

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.

EDUCATION

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."

1997

M.P.H., Environmental Health Sciences, Johns Hopkins University Bloomberg School of Public Health, Baltimore, Maryland.

- 1990 M.Engr., Environmental Engineering, University of Virginia, Charlottesville, Virginia.
- 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

RESEARCH, SCHOLARLY, AND CREATIVE AND/OR PROFESSIONAL ACTIVITIES

Publication Statistics: According to Google Scholar, as of July 2019, my published peer-reviewed papers have been cited a total of 1,384 times with an average of 42 citations per paper (Range, 0-630 citations). My overall h-index is 15. Impact Factors derived from the Institute for Scientific Information's (ISI) 2018 Journal Citation Report are listed below. (*=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[§]**. "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[§]** 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:5.38. Cited:2.**
Contribution of Devon Payne-Sturges: Conceived study idea; supervised data collection and analysis and wrote major portions of the manuscript.
2. **Payne-Sturges DC[§]**, 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:8.05. Cited:29.**
Contribution of Devon Payne-Sturges: Conceived project idea, collected the data, conducted the data analysis and wrote the entire manuscript.
3. **Payne-Sturges DC[§]**, 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:8.05. Cited:178.**
Contribution of Devon Payne-Sturges: Conceived study idea, collected the data, conducted the data analysis and wrote the entire manuscript.

4. Gee, GC[§] 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:8.05. Cited:630.**
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[§]**, 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:4.43. Cited:22.**
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[§]**, 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:5.03. Cited:5.**
Contribution of Devon Payne-Sturges: Conceived manuscript idea, led the writing and wrote major portions of the manuscript.
7. **Payne-Sturges DC[§]**, 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:5.03. Cited:37.**
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[§]** 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:5.03. Cited:107.**
Contribution of Devon Payne-Sturges: Developed study idea, designed and performed data analyses, and led writing of the manuscript.
9. **Payne-Sturges D[§]**, 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:8.05. Cited:5.**
Contribution of Devon Payne-Sturges: Developed study idea, designed and performed data analyses, and led writing of the manuscript.
10. **Payne-Sturges D[§]**, 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:7.15 Cited:24.**
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[§], 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:5.38. Cited: 40.**
Contribution of Devon Payne-Sturges: Assisted in the analysis and contributed to major portions of the manuscript.
12. Gordon L*, **Payne-Sturges D^{§+}**, 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:9.**

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[§], **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:5.38. Cited:23.**

Contribution of Devon Payne-Sturges: Co-conceived manuscript idea and wrote major portions of the manuscript.

14. Muennig P[§], 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:5.59. Cited:8.**

Contribution of Devon Payne-Sturges: Assisted in the study design; and contributed to major portions of the manuscript.

15. **Payne-Sturges D**[§]. 2011. Humanizing science at the US Environmental Protection Agency. *American Journal of Public Health*. 101 Suppl 1:S8-12. PMID: 22028453 **Impact Factor:5.38. Cited:4.**

Contribution of Devon Payne-Sturges: Conceived manuscript idea and wrote the entire manuscript.

16. **Payne-Sturges D**[§], 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 4.**

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**^{§+}. 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:2.47. Cited:18.**

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:4.**

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:2.47. Cited: 16.**

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:5.38. Cited: 7.**

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:5.**

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:2.78. Cited:15.**
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 3.09. Cited:56 .**
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:8.04. Cited:44.**
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:3.79. Cited:2.**
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:0.**
Contribution of Devon Payne-Sturges: *Created the learning assessment around which this case 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:4.14. Cited:42 .**
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. Prevalence and health-related correlates of food insecurity among college students and implications for academic institutions. *American Journal of Health Promotion*. 32(2):349-354. PMID: 28699401. **Impact Factor:2.64. Cited:38.**
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:2.47. Cited: 0.**
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:Not indexed. Cited:0.**
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:4.43. Cited:4.**
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. **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: 3078976. **Impact Factor:5.38. Cited:0.**
Contribution of Devon Payne-Sturges: Conceptualized and supervised the analysis and led the writing of the article.
33. 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 [in press]* **Impact Factor:5.03. Cited: 0.**
Contribution of Devon Payne-Sturges: Conceived study idea, supervised analysis by student mentees, led the writing and wrote major portions of the manuscript.

ARTICLES IN PREPARATION

1. Cairns C*[§], Carter-Pokras O, He X, **Payne-Sturges D**. Association between blood methylmercury and arthritis varies by race/ethnicity and body mass index: NHANES 2013-2014.
2. **Payne-Sturges D[§]**, Mittmann H*, Sangaramoorthy T. Framing environmental health decision-making: The struggle over cumulative impacts policy in Maryland.
4. Sprinkle R[§] and **Payne-Sturges D**. Mixture toxicity and cumulative risk in American environmental governance, 1980-2016: When so much was known why was so little done?
5. Mathews S*, Nweke O, **Payne-Sturges D⁺**. The Equity lens in decision making related to prioritizing chemical assessments at U.S. EPA.
6. **Payne-Sturges D[§]** and Hovmand P. Intervening on cumulative environmental neurodevelopmental risks: Introducing a complex systems approach.

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.

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.

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.

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.

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." American Public Health Association 147th Annual Meeting, Philadelphia, Pennsylvania. November 2019.
8. **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.

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. Ogungbesan 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/XhpmbImKYLg>

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. Lifestyles, 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>.

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=urSAH4exQWI>
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. **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.

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/>.

GRANTS AND FUNDING

PENDING GRANTS (under review)

Environmental Inequalities in Neurocognitive Function
Spencer Foundation
Role: **Co-Principal Investigator**; Total costs: \$50,000

ACTIVE GRANTS

- 08/18-06/21 "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
- 7/19 – 6/20 "Environmental Inequalities in Neurocognitive Development"
Sponsor: UMD Catalyst Fund, New Directions.
Role: **Co-Principal Investigator**; Total costs: \$33,000

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.

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

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	Introduction to Environmental Health	52 undergrad students	3 credits
	MIEH 688	Graduate Seminar	7 doctoral students	1 credit
Spring 2016	MIEH 300	Introduction to Environmental Health	60 undergrad students	3 credits
	MIEH786	MPH Capstone	1 master's student.	3 credits
	MIEH 789	Independent Study	1 master's student	3 credits
	MIEH 786	MPH Capstone	1 master's student	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

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 <i>Toms River: A Story of Science and Salvation</i> 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.
MIEH 688	Graduate Seminar. Redesigned to focus more on critical reviews of journal articles with discussions led by students.

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. 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

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.

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 interviewing for positions in the sustainability field.

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 Ripple Effect Communications, Inc.

Devon Donovan September 2015- May 2016; B.S. Public Health Science. Conducted literature searches on EDCs and summarized results. Currently Language and Culture Assistant at Ministerio de Cultura y Deporte in Spain.

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. Her abstract was accepted

for presentation at the 2019 American Public Health Association Annual Meeting.
Currently accepted into the MPH program in biostatistics at UMD.

- Rebecca Elspas September 2018 – present; 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.
- Shifali Matthews May 2019 - present; 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.
- Janet Martinez June 2019 - present; B.S. 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.

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. Currently at NIH in the Intramural Management Branch.
- 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 – present; B.S. Public Health Science

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.” Currently working as a data analyst for Sanofi, a pharmaceutical company.
- 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.” Currently working as a nurse.
- 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.” Currently an Associate with the Health Impact Project at the Pew Charitable Trusts.
- 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). Currently the Assistant Director with the Veterans Health Council
- Brad Newkirk May 2017 – present; MPH student in Environmental Health Sciences
- Kathryn Hirabayashi Oct 2018 – present; MPH student in Epidemiology (committee co-chair)

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”.
- 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 a Policy Analyst focusing on public health emergency preparedness with the University of Maryland Center for Health and Homeland Security.
- 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 Researcher with Karna, LLC, a contractor to the CDC National Center for Health Statistics.
- 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 a PhD student in MIAEH.
- 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 Cancer Research Training Award Fellow at the National Cancer Institute.
- Lauren Pavone Nov 2018 – present; 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.”

MASTER STUDENTS, MAJOR ADVISOR ON SPECIAL RESEARCH PROJECTS

- Clara Richards January 2016 – May 2016; 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 Assistant at the Center for a Healthy Maryland.
- 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. Currently working as a data analyst for Sanofi, a pharmaceutical company.
- Helen Mittmann May 2017 – Sept 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 Research

Associate with the Funders Forum on Accountable Health, a program at GWU's Milken Institute School of Public Health.

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 employed as program manager with CONSERVE.

DOCTORAL STUDENTS, MAJOR ADVISOR

Kaley Beins Fall 2016-Fall 2017; PhD Program 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. Currently employed as an analyst with the Division of Health and Environment at Abt Associates.

Natalie Crnosija Fall 2019 – present; PhD in Environmental Health Sciences. Received the 2019 School of Public Health Dean’s Fellowship.

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.

REVIEWING ACTIVITIES

MANUSCRIPT REVIEW FOR PEER-REVIEWED JOURNALS (listed alphabetically)

American Journal of 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

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 proposal 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.

COMMITTEES, PROFESSIONAL & CAMPUS SERVICE

DEPARTMENTAL SERVICE

- 2014 – 2015 MIAEH Awards Committee Chair
- 2015 MIAEH Director Search Committee Member
- 2018 Public Health Science Program Instructor Search Committee Member
- 2015 – 2018 MIAEH Executive Committee 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

UNIVERSITY SERVICE

- 2014 - 2017 UMD Campus Pantry Advisor and Volunteer. I also conducted data analysis of UMD Food Panty clients and led first ever food insecurity survey of UMD undergraduates.
- 2017 Banneker/Key Scholarship Selection Committee
- 2018 Honors Gemstone Proposal Review Committee

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 under Project TENDR (Targeting Environmental Neurodevelopmental Risks), a national consortium of leading scientists, health professionals and children's and environmental advocates.
- 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 – present Appointed to National Academy of Sciences Environmental Health Matters Initiative (EHMI) Steering 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. 2 year term.

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 – present 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 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.

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).