

# Curriculum Vitae

## Devon Payne-Sturges, Dr.P.H.

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

Signature 

Date August 6, 2017

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### **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  
[dps1@umd.edu](mailto:dps1@umd.edu)  
301-405-2025

### **Researcher IDs**

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

### **ACADEMIC APPOINTMENT**

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

### **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 WORK EXPERIENCE

- 2008 – 2014 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 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 new EPA extramural research initiative, Environment, Health and Society (EHS), with a 10 year research plan that focused on linkages between environmental conditions, social forces, sustainability and human health.

- 2004 – 2008 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 EPA that impact children's health. Key accomplishments include development of a rule writers' guide that enabled 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 EPA regulatory analysis so that 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.

- 2002 – 2004 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 EPA.
- 2000 – 2002 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.
- 1998 – 2000 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 and 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 courts in a decade. Supervised an implementation of a computerized inspection system for retail food inspections that cut down on administrative burden and time for the inspectors and increased number of inspections. Secured technical resources for South Baltimore communities to assess neighborhood environmental conditions.

## **RESEARCH, SCHOLARLY, AND CREATIVE ACTIVITIES**

Publication Statistics: According to Google Scholar, as of October 2016, my published peer-reviewed papers have been cited a total of 854 times. My overall h-index is 9.

## **BOOKS AND BOOK CHAPTERS**

**Payne-Sturges D.** “Environmental Equity” Chapter. Pediatric Environmental Health, 4th Edition. American Academy of Pediatrics. 2016. *In preparation*

**Payne-Sturges D.** “Environmental Equity” Chapter. Pediatric Environmental Health, 3rd Edition. American Academy of Pediatrics. 2008. ISBN-13: 978-1581103137.

**Payne-Sturges D**, Locke P, Keiner ST. "The Community Environmental Health Assessment Workbook: A Guide to Evaluating your Community's Health," The Environmental Law Institute. Washington, D.C. 1996, and second edition 2000. ISBN-13: 978-1585760169. <http://hdl.handle.net/1903/18892>.

#### REFEREED JOURNAL PUBLICATIONS

\*= *student mentee*

\*\* = *corresponding author*

\*\*\* = *share first author*

+ = *senior author*

1. **Payne-Sturges DC\*\***, Tjaden A, Caldeira KM, Vincent KB and Arria AM. (2017) Prevalence and Health-related Correlates of Food Insecurity among College Students and Implications for Academic Institutions. *American Journal of Health Promotion*. [Epub ahead of print]  
PMID: 28699401

2. Bruening M, Argo K, **Payne-Sturges D**, Laska MN. 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*. [Epub ahead of print]  
PMID: 28754200

3. 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.

4. 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*. PMID: 27811157

5. 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 Neuro-Developmental Risks The TENDR Consensus Statement. *Environmental Health Perspectives*. 124(7):A118-22. PMID:4937840.

6. Sangaramoorthy T, Jamison A, Boyle MD, Sapkota A, **Payne-Sturges DC**, Milton D, Wilson S. Place-Based Perceptions of the Impacts of Fracking along the Marcellus Shale. *Social Science and Medicine*. (2016). 151:27-37. PMID:26773295.

7. 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.
8. **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.
- 9.\*Yuen T, Park A, Seifer S and **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.
- 10.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.
- 11.\*Yuen T and **Payne-Sturges DC+**. (2013). Using Health Impact Assessment to Integrate Environmental Justice into Federal Environmental Regulatory Analysis . *New Solutions*. Vol. 23(3) 1-28. PMID: 23945351.
- 12.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
- 13.**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.
- 14.**Payne-Sturges D\*\***. (2011). Humanizing Science at the US Environmental Protection Agency. *American Journal of Public Health*. 101 Suppl 1:S8-12. PMID: 22028453
- 15.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.
- 16.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.
- 17.\*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.

18. 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.
19. **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.
20. **Payne-Sturges, D\*\*** and D Kemp (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.
21. **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.
22. **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.
23. **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.
24. \*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.
25. Gee, G C and **Payne-Sturges DC**. (2004). Environmental health disparities: a framework integrating psychosocial and environmental concepts. *Environmental Health Perspectives*. 112(17): 1645-53. PMID: 15579407.
26. **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.
27. **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.
28. **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

## OTHER PUBLICATIONS, INCLUDING WHITE PAPERS AND GOVERNMENT PUBLICATIONS

1. **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>.
2. **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.
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**, 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>.
5. Mercury Working Group (member). (2006). EPA's Roadmap for Mercury. U.S EPA. Washington DC. EPA-HQ-OPPT-2005-0013.

## CONFERENCES, WORKSHOPS AND TALKS

### **Keynotes**

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.

Keynote speaker. "Environmental Justice and Health Disparities: Why Environment Matters." Environmental Health 2011 Conference. Bahia, Brazil. February 2011.

### **Invited Talks**

"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.

"Socio-epidemiological Research Approaches and Cumulative Risk." Cities of the Future: Promoting Sustainability and Health Together, Dortmund, Germany. June 2016.

"Monitoring of Chemical Exposures." Targeting Environmental Neuro-Developmental Risks (TENDR) Workshop, Monterey, California. February 2016.

"Health Impact Assessment: An Overview." Prince George's Food Equity Council, College Park, Maryland. January 2015.

“Overview of Health Impact Assessment.” The Maryland Nonprofits Legislative Review Meeting, Woodstock, Maryland. January 2015.

“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.

“Indicators for Equity: What Does the Environment Have to Do with It?” Community Indicators Consortium Annual Meeting, College Park, MD. November 2012.

“Humanizing Science: Making Research Relevant for Achieving Health Equity” Society for the Study of Reproduction 45th Annual Meeting, State College, Pennsylvania. August 2012.

“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.

“Approaching Cumulative: Update from USEPA”. U.S. EPA Region 10 EJ Partners Teleconference. April 2011.

“Environmental Justice and Health Disparities: Why Environment Matters.” Maryland Department of the Environment, Baltimore, Maryland. June 2010.

“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.

“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.

“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.

“Children’s Environmental Health Regulatory Issues.” U.S. EPA Environmental Justice Coordinators’ Annual Meeting, Washington, DC. November 2007.

“Health Disparities: A U.S. EPA Perspective”. CDC Health Disparities Research Federal Partners meeting. Washington, D.C. May 2006.

“Environment and Public Health: Trends and Emerging Issues.” Healthy People 2020 Technical Panel, US Department of Health and Human Services, Washington, DC. June 2006.



“Considering Children’s Health When Developing EPA Actions.” Regulation Development at U.S. EPA Training Course, Washington, DC. February 2006.

“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.

“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.

“Personal Exposure Monitoring Meets Risk Assessment.” U.S. EPA Regional/ORD Workshop on Air Toxics Exposure Assessment, San Francisco, California. June 2002.

“Stressed Communities and Public Health Indicators.” Fourth Annual U.S. EPA Region III All States Environmental Justice Meeting. Dover, Delaware, June 12, 2002.

“Public Health Indicators and Environmental Justice.” Maryland Governor’s Commission on Environmental Justice and Sustainable Communities. Maryland Department of the Environment. Baltimore, Maryland. May 29, 2002.

### **Refereed Presentations**

**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 138<sup>th</sup> Annual Meeting, Denver, Colorado. November 2010.

**Payne-Sturges D, Gordon L, Gee GC.** “Exposure to small air particulates (PM2.5) among Asian and Pacific Islander Americans.” American Public Health Association 135<sup>th</sup> Annual Meeting, Washington, DC. November 2007.

**Payne-Sturges D.** “Connecting Social and Environmental Factors to Measure and Track Environmental Health Disparities.” American Public Health Association 133<sup>th</sup> Annual Meeting, Philadelphia, Pennsylvania. December 2005.

**Payne-Sturges D.** “A Framework for Tracking Social Disparities in Environmental Health.” International Society for Environmental Epidemiology Annual Meeting, Johannesburg, South Africa. September 2005.

**Payne-Sturges D.** “Environmental Burdens of Low Income and Minority Populations: Implications for Environmental Public Health Tracking.” American Public Health Association 132<sup>nd</sup> Annual Meeting, Washington, DC. November 2004.

## Refereed Posters

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 143<sup>rd</sup> Annual Meeting, Chicago, Illinois. November 2015.

**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.

**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.

## Symposia

Symposium on the Science of Disproportionate Environmental Health Impacts. U.S. EPA. Washington, DC. March 2010. Lead organizer.

Symposium on Environmental Justice. Organized with Instituto Nacional de Salud Publica. International Society for Environmental Epidemiology Annual Meeting, Mexico City, Mexico. September 2007

## GRANTS AND FUNDING

### Grants

2015 UMD Research and Scholarship Award (RSA); \$9K

Role: Principal Investigator

"Assessing Cumulative Environmental Health Risk for Neurocognitive Outcomes"

2016 UMD-Ulster Joint Research Workshop grant; \$30k

Role: Co- Investigator

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

2017 Fulbright Specialist at Hochschule für Gesundheit, University of Applied Sciences, Department of Community Health, Bochum, Germany

Role: Principal Investigator

The focus of my Fulbright will be to conduct research at neighborhood level on cumulative environmental health impacts, developing course material and learning scenarios on cumulative risks and impacts for the Department of Community Health's "DiPS-Lab" participatory place analysis for the undergraduate course "Gesundheit und Sozialraum" (translated as "Health and Social Environment"), and engaging with German policy makers for a comparative analysis of cumulative risk policies.

- 2017 UMD BSOS Dean's Research Initiative; \$68K  
Role: Co-Principal Investigator  
"Environmental Governance, Policy, and Regulatory Decision-Making: A Social History of Cumulative Risk Legislation in Maryland"

#### INTRAMURAL RESEARCH ACTIVITIES at U.S. Environmental Protection Agency

Evaluated state governmental agency methodologies for disproportionate environmental health impacts assessment (2011 – 2012). Resulted in a publication.

Developed methodology for health-based risk interpretation of pesticide biomonitoring data (2004 – 2009). Resulted in a publication and awards from U.S. EPA and the journal, Environmental Science and Technology.

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 (2005 – 2007). Resulted in two publications and an award from U.S. EPA.

#### AWARDS AND HONORS

- 2017 Philip Merrill Presidential Scholar Faculty Mentor  
2012 Johns Hopkins Woodrow Wilson Award for Government Service  
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 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  
2009 Editor's Choice Award as Environmental Science and Technology's Best Paper 2nd runner up for science.  
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.  
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 QSI Award in Recognition of Outstanding Achievements and High Quality Performance  
2005 U.S. EPA, Environmental Justice Award for Science of EJ Working Conference: National Planning Committee  
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

#### FELLOWSHIPS

- 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.
2015	Chesapeake Project Fellow, University of Maryland
2014-2015	ADVANCING Faculty Diversity, University of Maryland
2014-2019	Fulbright Specialist Roster Candidate, Institute of International Education, Council for International Exchange of Scholars
1997	Congressional Black Caucus Foundation Public Health Fellow
1997	Johns Hopkins School Public Health Pre-doctoral Fellowship

### TEACHING, MENTORING AND ADVISING

#### **Courses Taught as the Primary Instructor**

##### Spring 2015

SPHL498N Introduction to Environmental Health. Developed course. 3 credits. 32 undergraduate students.

##### Fall 2015

MIEH 300 Introduction to Environmental Health. Developed course. 3 credits. 52 undergraduate students.

MIEH 688 Graduate Seminar. Redesigned course. 1 credit. 7 doctoral students.

##### Spring 2016

MIEH 300 Introduction to Environmental Health. 3 credits. 60 undergraduate students.

MIEH786 MPH Capstone. 3 credits. 1 student.

MIEH 789 Independent Study. 3 credits. 1 student

MIEH 786 MPH Capstone. 2 credits. 1 student .

##### Summer 2016

MIEH 609 Methods in Toxicology and Environmental Health. 3 credits. 1 student .

##### Fall 2016

MIEH 300 Introduction to Environmental Health. Redesigned course. 3 credits. 120 undergraduate students, 6 discussion sections.

Completely redesigned MIEH 770 Environmental Law and Policy for Spring 2017.

##### Spring 2017

MIEH 770 Environmental Law and Policy. Redesigned course. 3 credits. 13 graduate students (MPH and PhD level).

**Guest Lectures at UMD**

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.

Guest Lecturer. Legacy Leadership Institute on Public Policy, UMD. I presented an overview of Health Impact Assessment methodology which participants could apply during their assignments with state legislators. November 2015, 30 students.

Guest Lecture. HLTH 200 Introductions to Research in Community Health, UMD School of Public Health. "Experimental Design: Threats to Internal Validity". October 2015, 60 students.

Guest Lecturer for 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.

Guest Lecturer for 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.

Guest Lecturer for 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.

Guest Lecturer for MIEH 740, UMD School of Public Health. Hazard Identification: The First Step in Risk Assessment. September 2014, 6 students.

**Guest Lectures Outside UMD**

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.

Guest Lecturer. "Environmental Health Disparities." Environmental Health course. School of Public Health, University of Maryland, College Park, Maryland, April 2008.

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.

Master of Public Health (MPH) Students, Committee Member or Chair, Primary Mentor or other Research Mentor

**Chair of Capstone Committee**

Winnie Mutunga. Fall 2016 –present: “The use of malachite green in aquacultured catfish by fish importing countries.”

Yue Ma. Fall 2014 – Spring 2016. “Association between PCB and obesity in among US children and adolescents.”

**Member of Capstone Committee**

Juliet Perez. Fall 2014 – Spring 2016. “Indoor Environmental Health Risk Profile and Health Literacy among Latinos in Langley Park, MD”.

Kim Stinchcomb. Fall 2015 – Spring 2016. Capstone: “College Park-Riverdale Park transit district development plan health impact assessment: An assessment of climate-change-related health impacts.”

**MPH Advisees**

Juliet Perez, graduated Summer 2016

Yue Ma, graduated Spring 2016

Winnie Mutunga, graduated 2017

Doctoral Students, Committee Member or Chair, Primary Mentor or other Research Mentor

**Member of Doctoral Examining Committees**

Fall 2015 – present, Jessica Montresor-Lopez, “Exposure to Ambient Air Pollution and Correlates of Cardiovascular Disease among Youth with Type 1 Diabetes.”

Fall 2015- present, Rianna Murray, “Private Drinking Water Wells and Animal Feeding Operations.”

**Doctoral Students, Major Advisor**

Fall 2016 – present, Kaley Beins, PhD Program in Toxicology and Environmental Health.

**Advising and Other Mentoring**

Fall 2016. Supervised 2 graduate teaching assistants, Rianna Murray and Katrina Bibb, 20 hrs per week each for MIEH 300.

Fall 2015 and Spring 2016. Supervised graduate teaching assistant, Rianna Murray, 10 hrs per week for MIEH 300.

Spring 2016 Mentored Bartram Hipple, doctoral student in UMD School of Education on a research paper on food insecurity among students and on his doctoral research topic.

Spring 2016 Mentored Clara Richards, MPH student on her plan of study (course work) and problem statement for her capstone project on student food insecurity.

Fall 2015- Spring 2016 Supervised federal work study student, Devon Donovan, 20 hrs per week. She conducted literature reviews on EDCs to support development of an NIH grant proposal.

Spring 2015 – Spring 2016 Mentored 2 Public Health Science Program majors, Neha Sastry and Mary Gad, on applying to graduate programs.

### **Student Awards**

Sophie Dean, 2016 UMD Library Award for Undergraduate Research. “The Detrimental Effects of Dietary Supplements.” I nominated her persuasive essay that was an assignment in my MIEH 300 course.

Kaley Beins, 2017 School of Public Health Dean’s Fellowship. Ms. Beins is my current doctoral student.

Kirby Rhodes, 2017-2018 Philip Merrill Presidential Scholar Award. I was named me as the faculty mentor who has had the greatest impact on her academic achievement.

### **SERVICE**

#### **Journal Reviewing Activities**

*American Journal of Public Health*

*Environmental Health Perspectives*

*Environment International*

*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*

*Social Science and Medicine*

#### **Departmental Service**

2015 – present MIAEH Executive Committee Member

2014 – 2015 MIAEH Awards Committee Chair  
MIAEH Social Committee Chair

### **School-Wide Service**

2016 – 2017 Undergraduate Career Development Task Force Member

2015 – 2016 MIAEH Director Search 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

2014 – 2015 MPH Health Equity Concentration Committee Member

2014 – present Public Health Science Program Steering Committee, Member and MIAEH Representative

### **University Service**

2014 – present UMD Campus Pantry. Volunteer.

Data Analysis of UMD Food Panty clients. Developed summary statistics of the UMD Food Pantry clients. Discovered interesting patterns. Majority of the Pantry visitors were African-American (58%), women (70%), and students (58%). To provide concrete data, I conducted first ever food insecurity survey of UMD undergraduates. Fifteen percent of students surveyed were food insecure and an additional 16% were at risk for food insecurity.

### **Professional Community Service**

2016 – present 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 – present 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.

2016 - present 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.

2015 – present Invited Member and Contributor. Project TENDR: Targeting Environment and Neuro-Developmental Risks, a national consortium of leading scientific experts on children's environmental health

2015 – present, Affiliate Member, Environmental Justice Institute, Centre for Environmental Justice Studies, Berlin, Germany



2013 – 2016 Board Member and annual meeting planning committee. Community Indicators Consortium

2004 – 2012 Appointed Member. U.S. EPA's Risk Assessment Forum (RAF)

2011- 2014 Member, Executive Committee, Federal Collaboration on Health Disparities Research (FCHDR)

2013 Expert Panel Member, Health Professionals Advisory Board, International Joint Commission on the Great Lakes.

2001 – 2011 Board Member, Council on Education for Public Health, appointed by the American Public Health Association.

#### **Editorial Work/Consultancies/Review Panels**

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. May 2015.

Provided technical review comments. Draft Cumulative Impacts Study Plan. Maryland Environmental Health Network. April 2015.

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

Provided expert comments and advice on development of an air pollution and health study for Western Cape Province, South Africa. 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, Jan and Sept 2013.

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

US EPA STAR grant relevancy review panel for children's health research center proposal, 2007.

National Institute of Environmental Health Sciences, Appointed to Environmental Justice Special Emphasis Panel, 1999.

#### **OTHER INFORMATION**

**Professional Development**

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

U.S. Office of Personnel Management Supervisory Development Seminar Fundamentals, Shepherdstown, West Virginia, July 2011

**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).

**Professional Affiliations**

Community Indicators Consortium, Board Member, 2013 – 2016

American Public Health Association, member, since 1995

International Society for Environmental Epidemiology, member since 2004

Delta Omega Public Health Honor Society, Inducted Alpha Chapter, 2002

Maryland Conference of Local Environmental Health Directors, member 1998 - 2000