

Curriculum Vitae  
**JENNI A. SHEARSTON**

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## **RESEARCH INTERESTS**

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Environmental Epidemiology; Environmental Justice; Menstruation; Women's Health; Air Pollution; Traffic-related Pollution; Volatile Organic Chemicals; Gasoline Exposure; Health Consequences of Industrial Pollution; Alternative Tobacco Products (hookah and electronic-cigarettes); Community Based Research

## **EDUCATION**

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- 2018-present **PhD in Environmental Health Sciences, Environmental Epidemiology**, Mailman School of Public Health, Columbia University, New York, NY  
*Advisors: Markus Hilpert, PhD & Marianthi-Anna Kioumourtzoglou, ScD*
- 2014-2017 **Master of Public Health, Epidemiology**, College of Global Public Health, New York University, New York, NY  
*Thesis: Childhood Cancer and Exposure to Industry: An Ecologic Study of New Jersey Counties Using Data from the Toxic Release Inventory*  
*Advisor: Thomas Kirchner, PhD*
- 2007-2011 **Bachelor of Arts, English**, Regis University, Denver, CO  
*Thesis: Living in the Mystery: Myriad Approaches to Death in Edgar Allan Poe's Tales of Terror*  
*Advisor: David Hicks, PhD*

## **Certifications**

Standard Certificate, Teacher of English, New Jersey, Cert #907813

## **AWARDS AND HONORS**

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- 2021-2023 F31 Ruth L. Kirschstein Predoctoral Individual National Research Service Award, National Institutes of Environmental Health Sciences, (Award # ES033098), Bethesda, MD
- 2020 EHS Exemplary Teaching Award, Columbia University, New York, NY
- 2018-2021 NIEHS Center for Environmental Health and Justice in Northern Manhattan, Predoctoral Trainee, Columbia University, New York, NY
- 2011 Magna Cum Laude, Regis University, Denver, CO
- 2010-2011 Student Representative to Board of Trustees Standing Committee on Finance & Business Affairs, Regis University, Denver, CO
- 2007-2011 Regis College Honors Program, Regis University, Denver, CO
- 2007-2011 Board of Trustees Scholarship, Regis University, Denver, CO
- 2007-2011 Ruby M. Sisson Memorial Scholarship, Pagosa Springs, CO
- 2007-2011 Pagosa Springs Rotary Club Scholarship Award, Pagosa Springs, CO

## **ACADEMIC APPOINTMENTS & RESEARCH EXPERIENCE**

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2018-Present Graduate Student Researcher, Marianthi-Anna Kioumourtzoglou PhD & Markus Hilpert PhD, Department of Environmental Health Sciences, Columbia University Mailman School of Public Health

- Contributed to a variety of research projects through working collaboratively to design and implement studies, conduct data analysis, collect primary data, and develop collaborations with other researchers and community members

- 2015-2018 Project Manager, Michael Weitzman MD, Scott Sherman MD MPH, & Terry Gordon PhD, Departments of Pediatrics, Population Health, and Environmental Medicine, NYU Langone Medical Center, New York, NY
- Promoted from Project Coordinator to Project Manager after 18 months
  - Managed a variety of public health research projects, domestically and globally, including the administration and submission of grants, IRB applications and compliance, creation of data collection tools, study design and implementation, management of data collection and research staff, and analysis of large nationally representative datasets
  - Domestic projects:
    - Smoking Cessation and the Oral Microbiome
    - Air Quality, Child, and Adult Health in Homes where Hookahs and E-cigarettes are Used
    - Air Quality in Vape Shops
    - CUNY Tobacco & Health Behavior Survey
    - Survey of Knowledge and Beliefs of Alternative Tobacco Products among Dental Students
    - Indoor Air Quality in Homes of Hookah Smokers and E-cigarette Users
    - Dental and Periodontal Disease and Hookah Smoking (New York City)
  - Global projects:
    - Abu Dhabi Cohort Study, Abu Dhabi, UAE
    - Periodontal Disease and Hookah Smoking, Sharjah, UAE
    - Quit Buddy App for Smoking Cessation, NYU/St. Petersburg, Russia

- Summer 2017 Intern, US Environmental Protection Agency, Region II, Office of the Regional Administrator, Special Projects, New York, NY
- Interviewed numerous stakeholders throughout Region II involved with reducing childhood exposure to lead paint, including representatives of local governments, non-governmental organizations, universities, and public health offices
  - Developed a resource for community coalitions to use when working to reduce primary lead exposure in their regions

- 2014-2015 Research Assistant, Michael Weitzman, MD, Department of Pediatrics, NYU Langone Medical Center, New York, NY
- Analyzed data using Stata from the Global Adult Tobacco Survey, in conjunction with colleagues, to evaluate worldwide tobacco cessation resource use

## **TEACHING EXPERIENCE AND RESPONSIBILITY**

- 2020-2022 Teaching Fellow, Mailman School of Public Health, Columbia University  
*Capstone: Critical Thinking and Analysis in EHS* (Spring 2020, Spring 2021, Spring 2022)  
*Applied Environmental Public Health Science* (Fall 2021)
- 2019-2022 Workshop Guide, Mailman School of Public Health, Columbia University  
*GIS Workshop*, SHARP Training (Summer 2019, Summer 2020, Summer 2021, Summer 2022)
- 2016-2017 Teaching Assistant, College of Global Public Health, New York University  
*Drug Use and Public Health* (Fall 2016, Fall 2017)
- Collaborated with team of students to develop masters level course on licit and illicit drug use, including the design and production of all materials and assignments
- Spring 2015 Arabic Teacher, Newark Collegiate Academy, KIPP:NJ, Newark, NJ
- Facilitated three sections of Arabic classes through Rosetta Stone, in conjunction with developing complementary cultural activities (please note, I do not speak Arabic)
- 2012-2014 English and Special Education Teacher, Newark BRIDGES High School, Newark Public Schools, Newark, NJ

- Consistently commended by supervisor for outstanding teaching and dedication to students at an urban, public, alternative education school serving over-aged and under-credited students
- Requested by supervisor to create and deliver over 6 professional development sessions to full school staff
- Served as Senior Class Advisor to a class of 100 graduating seniors; including organizing fundraisers, planning Graduation events, and leading student representatives to plan graduation activities and school spirit activities
- Awarded Staff of the Month for outstanding service and work ethic

2012-2014 Teach for America Corps Member, Newark, NJ

- Selected from highly competitive pool to join national teacher corps of recent college graduates and professionals who commit two years to teach in high need public schools.

## **MENTORSHIP**

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*MPH Students at Columbia University*

2020 Shannon (Seonyoung) Park

- In this capacity, I advised Shannon on coding, data analysis, and manuscript development

2019 Peggy (Pei) Hsieh

- In this capacity, I advised Peggy on coding, data analysis, and manuscript development

## **FELLOWSHIP AND GRANT SUPPORT**

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NIEHS Center Pilot Award P30ES009089. Role: Co-I. "Tampons as a source of pesticide and metal exposure: A novel exposure assessment study." April 1, 2022 - March 31, 2023. \$35,000

NIEHS Award F31 ES033098. Role: PI. "Impact of COVID-19 related stay-at-home orders on traffic, traffic-related air pollution, and cardiovascular health in New York City." September 1, 2021 - August 30, 2023. \$32,849

## **PUBLICATIONS**

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*Submitted or In Preparation Manuscripts*

32. (Submitted) Rowland ST\*, **Shearston JA\***, Cole J, Chillrud SN, Martinez ME, Hilpert H. (2022). A Reproducible Method for Acquisition, Processing, and Analysis of Crowd-Sensed Traffic Data at User-Specified Spatial Scales. \* Shared first author
31. (In preparation) **Shearston JA**, Geller RJ, Harmon Q, Upson K, Wise LA, Wesselink AK, Wegienka GR, Baird DD, Kioumourtzoglou M-A. (2022). Tampons as a Source of Exposure to Metals Among Reproductive-aged Black Women.
30. (Submitted) **Shearston JA**, Cerna-Turoff I, Hilpert M, Kioumourtzoglou M-A. (2022). Quantifying Changes in NO<sub>2</sub> Due to COVID-19 Related Stay-at-home Orders in New York City.
29. (In preparation) Karey E, Hess J, Farrell K, Rebuli ME, **Shearston JA**, Lee L, Reed TA, Eazor J, Jaspers I, Weitzman M, Gordon T. (2022). Passive vaping emissions increase risk for upper respiratory inflammation in both children and adults living with exclusive e-cigarette users.

*Peer-Reviewed Publications*

28. Jiang N, Xu S, Li L, El Shahawy O, Freudenberg N, **Shearston JA**, Sherman SE. (2022). The Mediating Effect of E-cigarette Harm Perception in the Relationship between E-cigarette Advertising Exposure and E-cigarette Use. *Int J Environ Res Public Health*; 19(10): 6215. doi: 10.3390/ijerph19106215
27. Benavides J, Rowland ST, **Shearston JA**, Nunez Y, Jack DW, Kioumourtzoglou MA. (2022). Methods for Evaluating Environmental Health Impacts at Different Stages of the Policy Process in Cities. *Curr Environ Health Rep*. doi: 10.1007/s40572-022-00349-5

26. Upson K, **Shearston JA**, Kioumourtzoglou MA. (2022). An Epidemiologic Review of Menstrual Blood Loss as an Excretion Route for Per- and Polyfluoroalkyl Substances. *Curr Environ Health Rep*; 9, 29-37. doi: 10.1007/s40572-022-00332-0
25. Upson K, **Shearston JA**, Kioumourtzoglou MA. (2022). Menstrual Products as a Source of Environmental Chemical Exposure: A Review from the Epidemiologic Perspective. *Curr Environ Health Rep*; 9, 38-52. doi: 10.1007/s40572-022-00331-1
24. Al-Marzooq F, Al Kawas S, Rahman B, **Shearston JA**, Saad H, Benzina D, Weitzman M. (2022). Supragingival Microbiome Alterations as a Consequence of Smoking Different Tobacco Types and its Relation to Dental Caries. *Sci Rep*; 12, 2861. doi: 10.1038/s41598-022-06907-z
23. Li M, Hilpert M, Goldsmith J, Brooks JL, **Shearston JA**, Chillrud SN, Ali T, Umans JG, Best LG, Yracheta J, van Donkelaar A, Martin RV, Navas-Acien A, Kioumourtzoglou MA. (2022). Air Pollution in American Indian Versus Non-American Indian Communities, 2000-2018. *Am J Public Health*; 112, 615-623. doi: 10.2105/AJPH.2021.306650
22. **Shearston JA**, Eazor J, Lee L, Vilcassim R, Reed T, Ort D, Weitzman M, Gordon T. (2021). Effects of Electronic Cigarettes and Hookah Water Pipe Use on Home Air Quality. *Tob Control*. doi: 10.1136/tobaccocontrol-2020-056437
21. **Shearston JA**, Martinez ME, Nunez Y, Hilpert M. (2021). Social Distancing Fatigue in Manhattan during the COVID-19 Pandemic: Evidence from Real-time Traffic. *Sci Tot Environ*. doi: 10.1016/j.scitotenv.2021.148336
20. Al Kawas S, Al-Marzooq F, Rahman B, **Shearston JA**, Saad H, Benzina D, Weitzman M. (2021). The Impact of Smoking Different Tobacco Types on the Subgingival Microbiome and Periodontal Health: A Pilot Study. *Sci Rep*; 11(1113). doi: 10.1038/s41598-020-80937-3
19. Hsieh PY, **Shearston JA**, Hilpert M. (2021). Benzene Emissions from Gas Station Clusters: A New Framework for Estimating Lifetime Cancer Risk. *J Environ Health Sci Engineer*; doi: 10.1007/s40201-020-00601-w
18. El-Shahawy O, Park SH, Rogers E, **Shearston JA**, Thompson A, Cooper S, Freudenberg N, Ball SA, Abrams A, Shelley D, Sherman SE. (2020). Hookah Use Patterns, Social Influence and Associated Other Substance Use Among a Sample of New York City Public University Students. *Subst Abuse Treat Prev Policy*; 15(65). doi: 10.1186/s13011-020-00283-5
17. **Shearston JA**, Johnson AM, Domingo-Relloso A, Kioumourtzoglou MA, Hernández D, Ross J, Chillrud SN, Hilpert M. (2020). Opening a Large Delivery Service Warehouse in the South Bronx: Impacts on Traffic, Air Pollution, and Noise. *Int J Environ Public Health*; 17(9). doi: 10.3390/ijerph17093208. PMID: PMC7246477
16. **Shearston JA**, Hilpert M. (2020). Gasoline Vapor Emissions During Vehicle Refueling Events in a Vehicle Fleet Saturated with Onboard Refueling Vapor Recovery Systems: Need for an Exposure Assessment. *Front Public Health*; 8(18). doi: 10.3389/fpubh.2020.00018. PMID: PMC7020915
15. **Shearston JA**, Lee L, Eazor J, Meherally S, Park SH, Vilcassim MJR, Weitzman M, Gordon T. (2019). Effects of Exposure to Direct and Secondhand Hookah and E-Cigarette Aerosols on Ambient Air Quality and Cardiopulmonary Health in Adults and Children: Protocol For A Panel Study. *BMJ Open*; 9(6) e029490. doi: 10.1136/bmjopen-2019-029490. PMID: PMC6597628
14. Chapman CR, **Shearston JA**, Folkers KM, Redman BK, Caplan AL, Bateman-House A. (2019). Single Patient Expanded Access Requests: IRB Professionals' Experiences and Perspectives. *AJOB Empir Bioeth*; Apr-Jun. doi: 10.1080/23294515.2019.1577192
13. El-Shahawy O, Park SH, Lee L, Duncan DT, Tamura K, **Shearston JA**, Sherman SE, Weitzman M. (2018). Evaluating State-level Differences in E-cigarette and Cigarette Use Among Adults in the United States Between 2012 and 2014: Findings from the National Adult Tobacco Survey. *Nicotine Tob Res*; Feb 27. doi: 10.1093/ntr/nty013

12. **Shearston JA**, Shah K, Cheng E, Moosvi R, Park SH, Patel N, Spielman AI, Weitzman M. (2017). Dental, Dental Hygiene, and Advanced Dental Students' Use, Knowledge, and Beliefs Regarding Tobacco Products. *J Dental Educ*. Nov;81(11):1317-1326. doi: 10.21815/JDE.017.091. PMID: 29093145
11. Palamar JJ and **Shearston JA**. (2017). Nonmedical Opioid Use in Relation to Recency of Heroin Use in a Nationally Representative Sample of Adults in the US. *J Psychoactive Drugs*; 50(2):159-166. doi: 10.1080/02791072.2017.1368747. PMCID: PMC5847431
10. Park SH, Duncan D, El Shahawy O, Lee L, **Shearston JA**, Tamura K, Sherman SE, Weitzman M. (2017). Characteristics of Adults Who Switched from Cigarette Smoking to E-cigarettes. *Am J Prev Med*; pii: S0749-3797(17)30363-X. doi: 10.1016/j.amepre.2017.06.033.
9. Tseng KK, Park SH, **Shearston JA**, Lee L, Weitzman M. (2017). Parental Psychological Distress and Food Insecurity: Sad Dads in Hungry Homes. *J Dev Behav Pediatr*; doi: 10.1097/DBP.0000000000000481
8. Park SH, Lee L, **Shearston JA**, Weitzman M. (2017). Patterns of Electronic Cigarette Use and Level of Psychological Distress. *PLoS ONE*; 12(3):e0173625.
7. Weitzman M, Yusufali AH, Bali F, Vilcassim MJ, Gandhi S, Peltier R, Nadas A, Sherman S, Lee L, Hong Z, **Shearston J**, Park SH, Gordon T. (2016). Effects of Hookah Smoking on Indoor Air Quality in Homes. *Tob Control*; doi:10.1136/tobaccocontrol-2016-053165. PMCID: PMC5505800
6. Park SH, Duncan DT, El Shahawy O, **Shearston JA**, Lee L, Tamura K, Sherman SE, Weitzman M. (2016). Analysis of State-Specific Prevalence, Regional Differences, and Correlates of Hookah Use in US Adults, 2012-2013. *Nicotine Tob Res*; pii: ntw229
5. **Shearston JA**, Park SH, Lee L, Oshinsky C, Sherman SE, Weitzman M. (2016). Increasing Hookah Use Among Adolescent Females in the US: Analyses from the 2011-2014 National Youth Tobacco Survey (NYTS). *Tob Prev Cessation*; 2:74. doi: https://doi.org/10.18332/tpc/64941
4. Cawkwell PB, Lee L, **Shearston J**, Sherman SE, Weitzman M. (2016). The Difference a Decade Makes: Smoking Cessation Counseling and Screening at Pediatric Visits. *Nicotine Tob Res*; pii: ntw146.
3. Palamar JJ, **Shearston JA**, Cleland CM. (2016). Discordant Reporting of Nonmedical Opioid Use in A Nationally Representative Sample of US High School Seniors. *Am J Drug Alcohol Abuse*; 17:1-9.
  - a. Palamar JJ, **Shearston J**, Cleland C. (2016). Discordant Reporting of Nonmedical Opioid Use: Reply to Letter to the Editor. *Am J Drug Alcohol Abuse*; 0(0):1-2.
2. Lee L, **Shearston JA**, Weitzman M. (2016). New Alternative Tobacco Products – A Threat to Adolescent Health. *Pediatr Rev*; 37(7):310-2. doi: 10.1542/pir.2015-0146. PMID: 27368364
1. Palamar JJ, **Shearston JA**, Dawson EW, Mateu-Gelabert P, Ompad DC. (2016). Nonmedical Opioid Use and Heroin Use in A Nationally Representative Sample of US High School Seniors. *Drug Alcohol Depen*; 1(158):132-8. doi: 10.1016/j.drugalcdep.2015.11.005. PMCID: PMC4698068

#### Pre-prints

2. Hilpert M, **Shearston JA**, Cole J, Chillrud SN, Martinez ME. (2021). Acquisition and Analysis of Crowd-sourced Traffic Data. Arxiv. doi: 10.48550/arXiv.2105.12235
1. **Shearston JA**, Martinez ME, Nunez Y, Hilpert M. (2021). Social-distancing fatigue: Evidence from Real-time Crowd-sourced Traffic Data. medRxiv. doi: 10.1101/2021.03.04.21252917

#### Book Chapters

1. Sherman SE, El-Shahawy O, Leinberger-Jabari A, **Shearston J**, Weitzman M. Dokha Tobacco Smoking: An Alternative Tobacco Product Endemic to the Arabian/Persian Gulf. *Handbook of Healthcare in the Arab World*. Ed. Ismail Laher.

#### Government Publications

1. US Environmental Protection Agency, Region 2. (**Shearston JA** - Primary Author) Best Practices for Reducing Lead Exposure: A Resource for Community Coalitions. Under government review

## **PRESENTATIONS**

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### *Invited Presentations*

4. **Shearston JA**. Investigating 3 Environmental Exposures: Metals in Tampons, Air Pollution During the Covid-19 Pandemic, and Traffic Patterns in NYC Census Tracts. Environmental Health Sciences Department Seminar, Mailman School of Public Health, Columbia University. February 14, 2022.
3. **Shearston JA**. Exploring the Impact of COVID-19 on Traffic and Traffic-related Air Pollution in NYC. Environmental Health Sciences Department Seminar, Mailman School of Public Health, Columbia University. April 19, 2021.
2. **Shearston JA**. Pesticides and Traffic: Studies in the New York Area. Environmental Health Sciences Department Seminar, Mailman School of Public Health, Columbia University. February 10, 2020.
1. **Shearston JA**. Gasoline Vapor Emissions from Gas Stations: Underground Storage Tank Vent Pipes and Vehicle Refueling. Environmental Health Sciences Department Seminar, Mailman School of Public Health, Columbia University. March 4, 2019.

### *Conference Oral Presentations*

3. **Shearston JA**, Johnson AM, Hernandez D, Kioumourtzoglou M-A, Chillrud SN, Hilpert M. Partnering with the Community to Advocate for Clean Air: A Case Study from the South Bronx, NYC. ISEE North-American Chapter-sponsored Symposium: Scientist Connections with Environmental Justice Communities. International Society of Environmental Epidemiology 34th Annual Meeting: Athens, Greece. September 18-21, 2022.
2. **Shearston JA**, Leinberger-Jabari A, El-Shahawy O. Dokha: Current Knowledge and Gaps: A Review of the Literature. Oral Presentation. 1<sup>st</sup> Dokha Tobacco International Symposium. Abu Dhabi, UAE. November 5-6, 2017.
1. **Shearston JA**, Park SH, Lee L, Weitzman M. Exclusive Hookah Use, Exclusive Cigarette Use, and Hookah-Cigarette Dual Use Among US Adolescents. Oral Presentation. 19<sup>th</sup> Annual Conference, International Society of Addiction Medicine: Abu Dhabi, UAE. October 26-29, 2017.

### *Selected Conference Poster Presentations*

11. **Shearston JA**. Tampons as a source of exposure to metals among reproductive-aged Black women. Poster Presentation. International Society of Environmental Epidemiology 34<sup>th</sup> Annual Meeting: Athens, Greece. September 18-21, 2022.
10. **Shearston JA**. New York on PAUSE and traffic-related air pollution: quantifying diurnal changes in NO<sub>2</sub> due to COVID-19 stay-at-home orders. Poster Presentation. International Society of Environmental Epidemiology 34<sup>th</sup> Annual Meeting: Athens, Greece. September 18-21, 2022.
9. **Shearston JA**. Acquisition and Analysis of Crowd-Sensed Traffic Data at Multiple Spatial Scales. Poster Presentation. International Society of Environmental Epidemiology 34<sup>th</sup> Annual Meeting: Athens, Greece. September 18-21, 2022.
8. **Shearston JA**, Johnson AM, Domingo-Relloso A, Kioumourtzoglou MA, Hernandez D, Ross J, Chillrud SN, Hilpert M. A South Bronx Community-based Study: Impacts on Traffic, Air Pollution, and Noise from a Large Delivery Service Warehouse. Poster Presentation. International Society of Environmental Epidemiology 33<sup>rd</sup> Annual Meeting: Virtual Meeting. August 23-26, 2021.
7. **Shearston JA**, Martinez ME, Nunez Y, Hilpert M. Social-distancing Fatigue: Evidence from Real-time Crowd-sourced Traffic Data. Poster Presentation. International Society of Environmental Epidemiology 33<sup>rd</sup> Annual Meeting: Virtual Meeting. August 23-26, 2021.

6. **Shearston JA**, Re DB, Boehme A, Kioumourtzoglou MA. Agricultural Pesticide Use and Parkinson’s Disease Admissions: A County-Level Study of New York State, 1995-2012. Poster Presentation. International Society of Environmental Epidemiology 32<sup>nd</sup> Annual Meeting: Virtual Meeting. August 24-27, 2020.
5. **Shearston JA**, Hilpert M. Gasoline Vapor Emissions During Vehicle Refueling Events, New York City. Poster Presentation. International Society of Environmental Epidemiology 32<sup>nd</sup> Annual Meeting: Utrecht, The Netherlands. August 25-28, 2019.
4. **Shearston JA**, El-Shahawy O, Park SH, Thompson A, Watnick D, Lamberson P, Weitzman M, Ball S, Freudenberg N, Sherman S. Characteristics Associated with Self-Reported Changes in Level of Current Hookah Use among a Sample of US Young Adults. Poster Presentation. 3<sup>rd</sup> International Conference on Waterpipe Tobacco Smoking Research. Beirut, Lebanon. November 2017.
3. **Shearston JA**, Park SH, Lee L, Weitzman M. Exclusive Hookah Use, Exclusive Cigarette Use, and Hookah-Cigarette Dual Use Among US Adolescents. Poster Presentation. Pediatric Academic Society Annual Meeting: San Francisco, CA. May 2017.
2. **Shearston JA**, Shah K, Cheng E, Moosvi R, Park SH, Patel N, Spielman AI, Weitzman M. Use, Knowledge, and Beliefs about Cigarettes and Alternative Tobacco Products Among Dental Students at One US Institution. Poster Presentation. Society for Research on Nicotine and Tobacco Annual Meeting. Florence, Italy. March 2017.
1. **Shearston JA**, Park SH, Lee L, Oshinsky C, Sherman SE, Weitzman M. Hookah: An Emerging Threat to Adolescent Females in the US. Poster Presentation. National Institutes of Health-Tobacco Regulatory Science Conference, May 2016, Bethesda, MD.

## **COMMUNITY ENGAGEMENT**

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Community report-back. How did traffic congestion change in Mott Haven – Port Morris from 2017 to 2019? Event: Air Pollution in the South Bronx, hosted by South Bronx Unite. 349 E 140<sup>th</sup> St, Bronx, NY. May 21, 2022.

- At this event, I gave a brief oral presentation describing the results of a study measuring how traffic had changed in the Port Morris and Mott Haven neighborhoods of the South Bronx. In addition, I staffed a table to answer any questions, and handed out flyers (English and Spanish) for residents to take home.

Community engagement. How to build and use air pollution monitors for citizen science. Event: Community Listening Session, hosted by South Bronx Unite. South Bronx Art Space. January 18, 2020.

- At this event, I gave a live tutorial (with Markus Hilpert) showing participants how to use the Arduino platform to build air pollution monitors. In addition, we gave a brief oral presentation to share the results of a study showing how traffic, air pollution, and noise had changed after a large distribution facility opened in the neighborhood.

## **PROFESSIONAL ORGANIZATIONS, SOCIETIES, AND SERVICE**

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### *Society Membership*

2019-Present International Society of Environmental Epidemiology  
 2017 Society for Research on Nicotine and Tobacco

### *Peer Review Activities*

Atmosphere; Environmental Engineering Research; Environmental Research; Environmental Science and Pollution Research; Toxics

### *Sessions Chaired*

2022 Chaired a session on “Child health and exposure to pesticides and other chemicals” at the International Society of Environmental Epidemiology 34<sup>th</sup> Annual Meeting: Athens, Greece. September 18-21, 2022.

2021 Co-chaired (with Brama Koné) a session on “Climate and disparities” at the International Society of Environmental Epidemiology 33<sup>rd</sup> Annual Meeting: Virtual Meeting. August 23-26, 2021.

## **DEPARTMENT AND UNIVERSITY COMMITTEES**

- 2020-Present Member, EHS Doctoral Student Sub-committee on Diversity, Equity, and Inclusion
- 2018-Present Co-leader (2019), Member (2018, 2020-present) ouR Club
- Organized regular, doctoral-student-led meetings for students to share knowledge about coding in R, give practice talks, discuss professional development, mentor other students, and address administrative concerns
  - Facilitated inaugural peer mentorship program

## **NON-PROFESSIONAL SERVICE**

- 2020-Present The Brotherhood/Sister Sol, New York City, NY
- Assist high school students with college admissions applications, including editing personal statements and resumes
- 2014-2017 Ignite Greater Newark, Newark, NJ
- 2015-2016 Mentoring Program for disadvantaged youth interested in pursuing health careers, New York City, NY
- Co-developed, in conjunction with a team at the NYU School of Medicine, a program that teaches public health research skills, study design, and manuscript development for urban youth, culminating in manuscript publication
- 2010-2011 Regis University Student Government, Regis University, Denver, CO
- Served as Student Body Vice President, and Class Senator
- 2011 Newborns in Need, Denver Health, Denver, CO
- 2007-2011 University Ministry, Regis University, Denver, CO

## **SKILLS**

Programming & Software: R; STATA; ArcGIS; QGIS; Microsoft Office; EndNote; Redcap

Research: Exposure assessment (menstrual blood, VOCs, air pollution, traffic, gas stations, weather, noise, metals, pesticides); Grant submission; IRB application; Survey development; Study management; Data analysis; Data management; Epidemiology; Statistical methods

Teaching: Curriculum development, Special education