CURRICULUM VITAE

Jill Johnston

July 1, 2019

Personal Information:

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| **Work** | **Home** |
| 2001 N. Soto St | 1217 El Paso Dr |
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Education and Professional Appointments

Education:

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| --- | --- |
| 2003 | BA, Earth & Environmental Sciences, Wesleyan University, Middletown, CT |
| 2010 | MS, Environmental Sciences & Engineering, University of North Carolina at Chapel Hill, Chapel Hill, NC |
| 2013 | PhD, Environmental Sciences & Engineering (Minor Public Policy), University of North Carolina at Chapel Hill, Chapel Hill, NC |
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Post-Graduate Training:

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| 2013-2015 | Postdoctoral Fellowship, Environmental Epidemiology, Dr. Steven Wing, Epidemiology, University of North Carolina at Chapel Hill, Chapel Hill, NC |

Academic Appointments:

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| 2015- | Assistant Professor | Division of Environmental Health, Department of Preventive Medicine, University of Southern California |

Administrative Appointments:

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| 2015- | Director, Community Outreach and Engagement Core | Southern California Environmental Health Sciences Center, USC |
| 2015- | Director, Community Outreach and Translation Core | Southern California Chidren’s Environmental Health Center, USC |
| 2015- | Director, Community Engagement  Core | MADRES Environmental Health Disparities Center,  USC |

Honors, Awards:

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| --- | --- | --- |
| 2003 | Howard Hughes Fellowship in Science | Wesleyan University, Middletown, CT |
| 2010 | Environmental Science & Engineering Achievement Award | University of North Carolina at Chapel Hill, NC |
| 2010 | Delta Omega Academic Excellence  Award | Delta Omega Honor Society, Chapel Hill, NC |
| 2012 | Student Poster Award (2nd Place) | Environmental Health Section, American Public Health Association Annual Meeting, San Francisco, CA |
| 2012 | Best Student Presentation Award | National Environmental Monitoring Conference, Washington, DC |
| 2014 | Delta Omega Honorary Public Health  Society Inductee | Delta Omega Honor Society, Chapel Hill, NC |

Teaching

Didactic Teaching:

*Wesleyan University*

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| --- | --- | --- | --- |
| 2001-2002 | American Sign Language | 3 units | Teaching Assistant |

*University of North Carolina at Chapel Hill*

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| 2012 | Water Resources Research | 2 units | Guest Lecture, “Community-based participatory research & environmental justice” |
| 2012 | Environmental Sciences & Engineering Seminar Series | 1 units | Seminar Lecture, “Not just radon: the intrusion of contaminants from the subsurface into indoor air” |
| 2012 | Epidemiology for Environmental Scientists and Engineers. | 3 units | Guest Lecture, “Community Exposure and Health Effects” |
| 2012-2014 | Risk Assessment | 3 units | Guest Lecture, “Probabilistic modeling for chemical risk assessment” |
| 2013 | Environmental & Occupational Epidemiology Seminar Series. | 1 units | Seminar Lecture, “A case of the vapors: Military toxics, environmental justice and indoor air” |
| 2014 | Environmental & Occupational Epidemiology Seminar Series. | 1 units | Seminar Lecture, “Industrial agriculture and environmental injustice in NC: 50 years after the Civil Rights Act” |
| 2014 | Methods in Water Research | 2 units | Guest Lecture, “Regression analysis and environmental exposure” | |
| 2014-2015 | Community-driven Epidemiology and Environmental Justice | 2 units | Co-Instructor | |

*University of Southern California*

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| --- | --- | --- | --- |
| 2015 | Environmental Epidemiology | 3 units | Guest Lecture, “Community-drive research and environmental justice” |
| 2016 | Environmental Health Policy & Practice (PM555) | 4 units | Primary Instructor |
| 2016- | The Health of Populations: Epidemics and Their Causes (GESM 130) | 4 units | “Health & economic inequalities” – 2 lectures |
| 2017- | Organizing & Mobilizing Communities for Public Health (PM 563) | 4 units | Primary Instructor |
| 2019- | Environmental Health: An Epidemiological Approach (PM 529) | 4 units | Co- Instructor |
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*Occidental College*

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| 2016-2019 | Introduction to Public Health | 3 units | Guest Lecture Fall & Spring, “Air Pollution, Health & Justice” |

**Undergraduate, Graduate and Medical Student Mentorship:**

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| 2016 | Erin O’Connell | MPH student | Lead Regulation in California: A Look into the Agencies and Legislation Responsible |
| 2016 | Krista McPherson | USC geodesign | Storymap: Parks & Health |
| 2016 | Alexander Chen | USC undergrad | Storymap: Lead and Air Pollution |
| 2016 | Eiko Miyamoto | MPH practicuum | Battery Smelters & Toxic Metals |
| 2016 | Danielle Ramos | MPH practicuum | Latina Moms & Environmental Risk Perception |
| 2016-2018 | Ashley Collier-Oxandale | PhD Student (UC Boulder - Engineering) | Quantification of methane sensors |
| 2017 | Noa Molshatzki Ben-Air | PhD student - Biostats | Directed research oil drilling and health |
| 2017 | Osman Shaheen | MPH student | Directed research on air pollution |
| 2017 | Karrina Carillo | USC undergrad | Directed research on qualitative risk perception |
| 2017-2019 | Hannah Roh | USC undergrad | Toxic metals exposure & biomarkers |
| 2018 | Alexandra Famiglietti | USC undergrad | Direct research on ambient air pollution & asthma |
| 2018- | Mitiasoa Razafy | USC undergrad | Direct research on dust- exposure & asthma |
| 2018- | Khang Chau | PhD student - BIostats | Directed research on remote sensing and oil drilling |
| 2018- | Kate Vavra-Musser | PhD student – Spatial Sciences | Directed research on birth outcomes & oil drilling |
| 2018- | Temuulen Enebish | PhD student - Epidemiology | Directed research on low-cost sensor network |
| 2018- | Kristen Okorn | PhD student (UC Boulder - Engineering) | Exposure assessment of methane and non-methane VOC community network |
| 2019- | Correy McGlyn | USC undergard | Directed research on health surveys in urban LA |

Service

Professional Service:

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| 2013 | Expert Reviewer on Vapor Intrusion Reports | Office of Solid Waste and Emergency Response, US EPA |
| 2013 | Expert Reviewer on Tetracholoethylene Toxicological Profile |  |
| 2014 | Participant, State of the Science on Vapor Intrusion workshop | SERDP & ESTCP |
| 2016 | Expert Reviewer on Tetracholoethylene | CDC/ATSDR |
| 2017 | Expert Panelist on Soil Contamination | CalEPA/DTSC |
| 2018 | Expert Panelist on CA Vapor Intrusion Revised Guidanace | CalEPA/DTSC |
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Consultantships and Advisory Boards:

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| 2016- | Environmental Justice Advisory Board | South Coast Air Quality Management District |
| 2016- | Community Advisory Board | Exide / DTSC |
| 2016- | Working Group Members | LA County Green Zones |
| 2016- | External Advisory Board | UC Berkeley CIRCLE Center |
| 2018- | Environmental Justice Working Group,  co-chair | USC Sustainability Solution Center |
| 2018- | Community Steering Community Members | Community Emission Reduction Plan  (AB 617), SCAQMD |
| 2018- | Technical Advisory Group | Air Toxics Emissions Reductions Plans, SCAQMD |

Professional Society Memberships:

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| 2005, 2012-2016 | American Public Health Association, Environmental Section |

2016 - International Society for Environmental Epidemiology

2016 - Community Campus Partnerships for Health

2016 - International Society for Children’s Health & the Environment

2017 - International Society for Exposure Assessment

2019 - Citizen Science

Community Service:

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| 2004-2010 | Steering Committee Member | Environmental Justice and Climate Change Initiative, Oakland, CA | Organizational youth representative |
| 2005-2008 | Board Member | Fuerza Unida, San Antonio, TX | Board of Directors for community organization |
| 2005-2010 | Project Lead | Grassroots Global Justice Alliance, Miami | Project lead for committee on popular education |
| 2008-2009 | Editor | El Grito de Hondo, Hondo, TX | Editor of bilingual community newspaper |
| 2008-2010 | Project Lead | Engineers Without Borders, Chapel Hill, NC | Lead student project to install solar panels in rural Mexico |
| 2010-2014 | Board Member | Universidad Sin Fronteras, San Antonio, TX | Board of Directors for national organization |
| 2015- | Presenter | East Yard Communities for Environmental Justice / East LA schools | Presentation on lead contamination, train youth on XRF, assess soil data |
| 2016- | Trainer | Long Beach Alliance for Children with Asthma | Train communtiy members on air monitoring, provide testimony on health impacts of traffic-related air pollution |
| 2016 | Presenter | Anenberg Health Journalists | Provide tour and data on Exide lead contamination |
| 2017- | Presenter | Esperanza Community Housing | Public testimony on oil drilling & health impacts, train community health works |
| 2017- | Trainer | Communities for a Better Environment | Train youth on personal air monitoring and data interpretation |
| 2019- | Trainer | Pacoima Beautiful | Train youth and adults on personal air monitoring and data interpretation |

Research and Scholarship

Manuscript Review:

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| 2010- | Environmental Science & Technology |
| 2012- | Sustainability |
| 2013- | Journal of Human and Ecological Risk Assessment |
| 2013- | International Journal of Environmental Research and Public Health |
| 2014- | Journal of Hazardous Materials |
| 2015- | International Quarterly of Community Health Education |
| 2015- | Science of the Total Environment |
| 2016- | Atmospheric Environment |

Grant Reviews:

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| 2017 | Centers for Oceans and Human Health: Impacts of Climate Change on Oceans and Great Lakes (COHH3) | NIH/NIEHS/NSF (Special Panel) |
| 2018 | Time-Sensitive Research on Health Risk and Resilience after Hurricanes Irma and Maria in Puerto Rico and the US Virgin Islands | NIEHS (Special Panel) |
| 2018 | CTSI Diveristy Pilot Grants | Keck School of Medicine |

Grant Support - Current:

588155 **(Johnston/Ibrahim)** 08/01/18-01/31/20

*California Breast Cancer Research Program Community Research Pilot*

A community-engaged approach to assess breast health in urban oil drilling communities

Researchers from the USC will collaborate with Esperanza Community Housing to raise awareness about the intersection between environmental justice, oil-extraction chemicals and breast cancer in the community and to develop innovative research approaches to assess the impact on breast health in the community. Role: Academic PI

1R01ES029598-01 **(Farzan/Johnston)** 07/01/18-06/30/23

NIH/ NIEHS

*The Salton Sea and Children’s Health: Assessing Imperial Valley Respiratory Health and the Environment*

The proposed study capitalizes on a unique opportunity to leverage a broad community air monitoring network to measure wind-blown dust and explore how increasing exposures to wind-blown dust and its constituents impact child health over time, in a way that is responsive to community concerns about the drying of the Salton Sea. Our proposed community-based study prioritizes community involvement and the translation of results into public health actions, to educate and empower residents to address local environmental health issues.

Role: MPI

**R21ES028417-01 (Johnston/Cushing)** 09/01/17 – 08/31/19

NIH/NIEHS

*Birth Outcomes in Areas of Unconventional Oil and Gas Development: Role of Exposure to Flaring*

Unconventional oil and gas extraction technologies, has led to a surge in domestic oil and gas production and has the potential to adversely impact human health. This study will fill these gaps in our current knowledge by assessing the potential impact of residential proximity to flaring from unconventional oil and gas wells on the risk of adverse birth outcomes among a diverse population in the Eagle Ford shale region of South Texas using a novel exposure assessment model that utilizes satellite imagery to identify flaring.

*Role*: MPI

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| **5P30ES007048-20 (Gilliland**) | 04/01/96 – 03/31/21 |
| NIH/NIEHS |  |
| *Environmental Exposures, Host Factors, and Human Disease* | |
| To establish an Environmental Health Research Center whose main purposes are to study the effects of environmental exposures on humans and to determine host factors (genetic and otherwise) influencing response to these exposures. | |
| *Role:* Director, Community Engagement Core | |
| **1P50ES026086-01 (Gilliland/Breton)** 07/01/15 – 06/30/20 | | |
| EPA/NIMHD/NIEHS | | |
| *Maternal and Developmental Risks from Environmental and Social Stressors (MADRES)* | | |
| The MADRES Center will examine whether pre- and postnatal/postpartum environmental exposures, coupled with exposures to psychosocial and built environment stressors, lead to excessive gestational weight gain and postpartum weight retention in women and to perturbed infant growth trajectories and increased childhood obesity risk through altered psychological, behavioral and/or metabolic responses. | | |
| *Role:* Director, Community Engagement Core | | |

**R21ES027695-01 (Johnston)** 09/01/16 – 08/31/19

NIH/NIEHS

*Health and Air Pollution near Urban Oil Drilling Sites*

Urban oil drilling is increasingly becoming a common occurrence and has the potential release multiple air pollutants, including volatile organic compounds which can be harmful to human health. This project will take advantage of a natural experiment in South Los Angeles (the temporary shutdown of operations with a planned resumption of drilling activities) and provides a unique opportunity to objectively document the impact of urban oil drilling operations on the air quality and health of a community of color already stressed by issues of environmental injustice.

*Role*: PI

*Grant Support - PAST:*

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| **5P01ES022845-03 and RD-83544101-0 (McConnell)** | | 06/01/13 – 06/31/19 |
| EPA/NIEHS | |  |
| *Southern California Children’s Environmental Health Center (SC-CEHC)* | | |
| This project proposes to 1) define the role of in utero and childhood air pollution exposures and key mechanistic pathways in the development of childhood obesity and metabolic abnormalities, 2) rapidly translate the emerging science to key groups to facilitate science-based interventions and policy change and 3) foster the next generation of CEH investigators. | | |
| *Role:* Director, Community Outreach and Translation Core | | |
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**3P30ES007048-22S1 (Gilliland)**

NIH/NIEHS 09/17/2017 – 03/31/2018

*Southern California Environmental Health Sciences Center – Administrative Supplement*

This inter-center collaboration will investigate the association with ambient and indoor dust in homes of asthmatic children and investigate and its toxicological potential, in a community disproportionately burdened by childhood asthma.

*Role*: Co-I

Total Direct Costs: $50,000

**1251762303 (Johnston)**

USC CTSI pilot project 07/01/17 – 06/30/18

*Use Of Novel Analytical Techniques And Biomarkers To Determine Toxic Metals Exposures From a Metal Smelter*

Southern California Environmental Health Sciences Center (SCEHSC) pilot project program. The goals of this project is to estimate community risks from exposure to multiple metals associated with the nearby battery recycling operation, test the ability to use teeth as biomarkers to reconstruct exposure retrospectively. this research will produce key data on the internal dose and timing of exposure of metal mixtures to support the development of a long-term study to relate biomarkers of toxic metal exposures to child health outcomes.

*Role*: PI

**5P30ES007048-21 (Gilliland)**

NIH/NIEHS Center pilot project (Farzan/Johnston) 04/01/17 – 03/31/18

*Toxic Metals Exposure and Metabolomic Perturbation: Impacts on Children Living Near Battery Recycling Industry*

Southern California Environmental Health Sciences Center (SCEHSC) pilot project program. The goals of this community-engaged research study in the vicinity surrounding the battery recycling operations in the San Gabriel Valley of Los Angeles County is to characterize individual biomarkers of toxic metal exposures in the communities adjacent to the smelter.

*Role*: MPI

**NEDA1738950 (Johnston)**

Marisla Fund 10/15/16-10/14/17

*Health & Air Pollution from Urban Oil Drilling*

This project aims to build the capacity of community and environmental justice organizations address urban oil drilling in Los Angeles to use environmental health and scientific information.

*Role: PI*

**3P30ES007048-21S1 (Gilliland)**

NIH/NIEHS 09/17/16 – 03/31/17

*Southern California Environmental Health Sciences Center – Administrative Supplement*

This inter-center collaboration will investigate the the toxicological profile of dust in Imperial Valley California and establish a community-based researhc program.

Role: Co-I

**5P30ES007048-21 (Gilliland)**

NIH/NIEHS Center pilot project 04/01/16 – 03/31/17

*Use Of Novel Analytical Techniques and Biomarkers To Determine Toxic Metals Exposures from a Southeast Los Angeles Battery Recycling Plant*

Southern California Environmental Health Sciences Center (SCEHSC) pilot project program. The goals of this project is to estimate community risks from exposure to multiple metals associated with the nearby battery recycling operation, test the ability to use teeth as biomarkers to reconstruct exposure retrospectively, and advance the community capacity to participate in and to use scientific research to help guide mitigation efforts in support of public health.

*Role: PI*

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| **5T32ES007018 (Herring)** | 06/24/13 – 06/23/15 |
| NIH/NIEHS |  |
| *Biostatistics for Research in Environmental Health* | |
| This multidisciplinary five-year program is designed to train predoctoral (PhD) and postdoctoral students in three distinct but interrelated areas: Environmental Biostatistics, Environmental Epidemiology, and Environmental Health Science. The goal is to prepare scientists to address emerging challenges in public health and medical research in environmental health. | |
| *Role:* *Postdoctoral Trainee* | |
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| **5P30ES01026 (Swenberg)** | 09/01/13-08/31/14 |
| NIH/NIEHS |  |
| *Pathways of Exposure to Contaminants from Land Applied Sewage Sludge* | |
| Our objective is to identify important routes of exposure to sludge contaminants, specifically perfluorinated compounds (PFCs) and polybrominated diphenyl ethers (PBDEs), and identify the population of individuals exposed. We will assess multiple pathways of exposure to sludge contaminants, including airborne dispersion of contaminants, local fish consumption and drinking water contamination. | |
| *Role:Co-Investigator* | |
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| **University of North Carolina(MacDonald Gibson)** | 2012 |
| *Agency* UNC Research Council |  |
| *Improving Risk Models of Indoor Air Pollution at Hazardous Waste Sites* | |
| This project will support a larger effort to calibrate a community-wide integrated modeling approach to characterize exposure risks and support remediation decisions where homes are at risk of indoor air pollution from vapors emanating from groundwater. | |
| *Role:Co-Investigator* | |
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| **Passport Foundation (MacDonald Gibson)** | 2011 |
| *Decreasing Exposure to Chlorinated Volatile Organic Compounds in Indoor Air* | |
| This research will help in the formulation of a federal policy on vapor intrusion and inform the debate over the extent to which indoor sources contribute to CVOCs detected in homes overlying contaminated groundwater. | |
| *Role:Co-Investigator* | |
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| **National Science Foundation (Johnston)** | 2010-2013 |
| *Graduate Research Fellowship – Environmental Engineering* |  |
| Decreasing Exposure to Chlorinated Volatile Organic Compounds in Indoor Air | |
| Develop a more accurate method to characterize the current and historic exposure to chlorinated solvents due to vapor intrusion in a community sited atop a contaminated shallow groundwater plume. | |
| *Role:Graduate Research Fellow* | |
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Invited Lectures, Symposia, keynote addresses

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| 2016 | Invited Keynote | Living on the Edge Conference, Galveston, TX |
| 2016 | Invited Lecture | DTSC Independent Review Panel, Sacramento, CA |
| 2016 | Invited Lecture | CA State Water Board, Sacramento, CA |
| 2016 | Invited Keynote | USC Annenberg School of Journalism, California Endowment Health Journalism Fellowship Program, Los Angeles, CA |
| 2016 | Invited Lecture | White Memorial Hospital Panel: Toxic Metals in LA, Los Angeles, CA |
| 2016 | Invited Lecture | Geodesign and Spatial Sciences Institute Brown Bag: Making the case with spatial data: community-driven research & environmental justice, Los Angeles, CA |
| 2016 | Invited Webinar | Urban green space, disparities and health (NIEHS webinar) |
| 2016 | Invited Keynote | Agencies, Exposure & Remediation: The Case of a Lead-Acid Battery Smelter, Department of Public Health, Los Angeles, CA |
| 2017 | Invited Speaker | Reproductive Health & the Environment Conference |
| 2017 | Invited Speaker | CA Department of Substance Control: Commuity Dialogue on Soil Contamination |
| 2017 | Invited Speaker | Low-Cost Air Quality Monitoring Tools: From Research to Practice |
| 2018 | Invited Speaker | Environmental Justice Enforcement: Emerging Contaminants |
| 2018 | Invited Keynote | Air Pollution and Environmental Justice: Community-driven approaches in urban and rural settings, Univeristy of Iowa |
| 2018 | Invited Keynote | Environmental Justice, Lead and Battery Recycling. Los Angeles Department of Public Health |

Thesis:

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| --- | --- | --- | --- |
| 2010 | MS | University of North Carolina at Chapel Hill | Probabilistic Approach to Estimating Indoor Air Concentrations of Chlorinated Volatile Organic Compounds from Contaminated Groundwater: A Case Study in San Antonio, Texas |
| 2013 | PhD | University of North Carolina at Chapel Hill | Assessing exposure to chlorinated solvents from the subsurface to indoor air pathway |

Publications:

Refereed Journal Article (Published):

**Johnston, J.E**., MacDonald Gibson, J. Probabilistic Approach to Estimating Indoor Air Concentrations of Chlorinated Volatile Organic Compounds from Contaminated Groundwater: A Case Study in San Antonio, Texas. *Environmental Science & Technology* 45, 1007-13. 2011. PMID:21162557

**Johnston, J.E.,** MacDonald Gibson, J. Spatiotemporal Variability of Tetrachloroethylene in Residential Indoor Air due to Vapor Intrusion: A Longitudinal, Community-based Approach.  *Journal of Exposure Sciences & Environmental Epidemiology.* 24(6):564-71, 2013. PMID:23549403

**Johnston, J.E.,** MacDonald Gibson, J. Screening Houses for Vapor Intrusion Risks: A Multiple Regression Analysis Approach. *Environmental Science & Technology* 47 (11), 5595–5602, 2013. PMID: 23659435.

**Johnston, J.E.,** Sun, Q., MacDonald Gibson, J. Updating Exposure Models of Indoor Air Pollution Due to Vapor Intrusion: Bayesian Calibration of the Johnson-Ettinger Model. *Environmental Science & Technology* 8 (4), 2130–2138, 2014. PMID: 24422490

Davis, C.S., **Johnston, J.E.,** de Saxe Zerden, L., Clark, K., Castillo, T., Childs, R. (2014) Attitudes of North Carolina Law Enforcement Officers Towards Syringe Decriminalization. *Drug and Alcohol Dependence.* 144:265-269, 2014. PMCID: PMC4428167.

**Johnston, J.E.,** Valentiner, E., Maxon, P., Miranda, M.L, Fry, R.C. Maternal Cadmium Levels during Pregnancy Associated with Lower Birth Weight in Infants in North Carolina. *PLoS ONE.* 9(10): e109661. 2014. PMCID: PMC4186854\*\*

**Johnston, J.E.,** Kramer, A.J., MacDonald Gibson, J. Community Perspectives on the Risk of Indoor Air Pollution Arising from Contaminated Groundwater. *New Solutions: A Journal of Environmental and Occupational Health Policy.* 25(1): 59-77, 2015. PMID:25815742

Davis, C.S., **Johnston, J.E.,** Pierce, M.W. Overdose Epidemic, Prescription Monitoring Programs, and Public Health: A review of state laws. *American Journal of Public Health.* *105(11):e9-e11, 2015.* PMCID: PMC4605194.

DeFelice, N., **Johnston, J.E**., MacDonald Gibson, J. Acute Gastrointestinal Illness Risks in North Carolina Community Water Systems: A Methodological Comparison. *Environmental Science & Technology* 19(16): 10019-10027. 2015. PMID: 26168086

**Johnston, J.E**., MacDonald Gibson, J. Indoor Air and Hazardous Waste: Key Considerations at Vapor Intrusion Sites. *International Journal of Environmental Research and Public Health*. 12(12): 15040-15057, 2015.

**Johnston, J.E.,** Hoffman, K., Wing, S., Lowman, A. Fish Consumption Patterns and Mercury Advisory Knowledge among Fishers in the Haw River Basin. NC Med J. 77(1): 9-14. 2016. PMID: 26763238.

DeFelice, N., **Johnston, J.E.,** MacDonald Gibson, J. (2016) Reducing Risks of Acute Gastrointestinal Illnesses due to Microbial Contaminants in North Carolina Drinking Water by Expanding Community Water Systems. Environmental Health Perspectives. 124(10): 1583-1591. 2016. PMID: 27203131

**Johnston, J.E.,** Werder, E., Sebastian, D. Wastewater disposal wells, fracking and environmental injustice in southern Texas. Am J Public Health. e1-e7. 2016. PMID: 26794166.

Guidry, V., Kinslaw, A., **Johnston, J.E**., Hall, D., Wing, S. (2017) Hydrogen Sulfide Concentrations at Three Middle Schools near Industrial Livestock Facilities. J Exp Sci Environ Epidemiol. 2017. PMID: 27094997.

**Johnston, J.E.,** Hricko, A.Industrial Lead Poisoning in Los Angeles: Anatomy of a Public Health Failure. Environmental Justice. 10 (5) 162-167, 2017.

Clements AL, Griswold WG, Abhijit RS**, Johnston J.E.**, Herting MM, Thorson J, Collier-Oxandale A, Hannigan MP. Low-Cost Air Quality Monitoring Tools: From Research to Practice (A.Workshop Summary). Sensors. 2018. 17(11) 2478.

Zhou H, Li X, Kim, JH, Salam MT, Kim HB, McConnell R, Habre R, Bastain T, Farzan SF, **Johnston J.E.**, Gilliland FD. Effect of inhaled allergens and air pollutants on childhood rhinitis development. Annals of Allergy, Asthma, & Immunology. 120(2) 212-214. 2018.

Collier-Oxandale A., Hannigan MP, Casey JG, Piedrahita R, Ortega J, Halliday H, & **Johnston J.E.** (2018) Assessing a low-cost methane sensor quantification system for use in complex rural and urban environments. Atmos. Meas. Tech. Discuss. 2018. doi.org/10.5194/amt-2017-421.

Collier-Oxandale, A., Coffrey E, Thorson J, **Johnston J.E.**, Hannigan, M. P. Comparing Building Neighborhood-Scale Variability of CO2 & O3 to Inform Deployment Considerations for Low-Cost Sensor System Use. Sensors. 2018. 18(5)

**Johnston, J.E.,** Lim, E., & Roh, H. Impact of upstream oil extraction and environmental public health: A review of the evidence. Science of The Total Environment. 2018. 657. 187-199.

Bastain, T. M., Chavez, T., Habre, R., Girguis, M. S., Grubbs, B., Toledo-Corral, C., **Johnston J.E.** ... & Noya, D. Study Design, Protocol and Profile of the Maternal And Developmental Risks from Environmental and Social Stressors (MADRES) Pregnancy Cohort: a Prospective Cohort Study in Predominantly Low-Income Hispanic Women in Urban Los Angeles. BMC pregnancy and childbirth, 2019. *19*(1), 189.

Franklin, M., Chau, K., Cushing, L.J., & **Johnston, J.E.** Characterizing flaring from unconventional oil and gas operations in south Texas using satellite observations. Environmental Science & Technology, 2019, *53*(4), 2220-2228.

**Johnston, J.E.,** Razafy, M., Lugo, H., Olmedo, L., & Farzan, S. F. The disappearing Salton Sea: A critical reflection on the emerging environmental threat of disappearing saline lakes and potential impacts on children's health. Science of The Total Environment, 2019. *663*, 804-817.

**Johnston, J.E.,** Franklin, M., Roh, H., Austin, C., & Arora, M. Lead and Arsenic in Shed Deciduous Teeth of Children Living Near a Lead-Acid Battery Smelter. Environmental Science & Technology. 2019. 53(10) 6000-6006.

**Johnston, J.E**. Lopez, M., Gribble, M.O., Gutschow, W., Austin, C., Arora, M. A collaborative approach to assess legacy pollution in communities near a lead-acid battery smelter: The “Truth Fairy” project. Health Education & Behavior. 2019 (in press)

Wu, A., **Johnston, J.E**. Assessing spatial characteristics of soil lead contamination in the residential neighborhoods near the Exide battery smelter. Case Studies in the Environment. 2019 (in press).

**Non-Refereed Journal Articles, reviews, or other communications (Selected):**

**Johnston, J.E.** Eye on the Earth: Defending their Land. *Abroad View.* 5(Spring), 2003.

**Johnston, J.E.** Project Regeneration: Community-based strategy for the future of the Greater Kelly Area. *Touching Bases.* 2(Summer). 2004.

**Johnston, J.E.** Introduction to Community Organizing. *Climate Justice Training Manual.* EJCCI. 2005.

**Johnston, J.E.** Freedom on Our Minds: Reflections on The People’s Freedom Caravan to the U.S. Social Forum. *San Antonio Current.* August 2007.

Cushing, L.J., **Johnston, J.E.** Nix the nukes:Dispatch from frontlines of the Texas energy wars. *Left Turn.* 38. October 2007.

## Cushing, LJ. Johnston, J.E. Milestones of a movement: reflections on the People's freedom caravan. USSF Book Committee, eds. *The United States Social Forum: Perspectives of a Movement 2010*. LuLu/ Changemaker publishing. pg 369. 2010.

Wing, S. **Johnston, J.E.** Industrial Hog Operations in North Carolina Disproportionately Impact African-Americans, Hispanics and American Indians. September 2014.

**Johnston, J.E**. Baby teeth study reveals children near smelters are exposed to dangerous lead in the womb. The Conversation. May 2019.

***Infographics*** <http://envhealthcenters.usc.edu/infographics>

Living Near Lead (2015)

Living Near Diesel Exhaust (2015)

Measuring Lead Exposure (2015)

Children’s Health & Urban Parks (2016)

Living Near Arsenic (2016)

Tips for a Health Home (2016)

Salton Sea Pollution (2017)

Neighborhood Oil Drilling (2017)

Impacts of Trade & Freight Transport (2017)

Abstracts and Presentations:

**Johnston, J.E.** Lifeline of Oil: Environmental Injustices in the Gulf of Mexico. *Pursuing Environmental Justice in the Face of Climate Change.* University of Michigan Ann Arbor. March 2004.

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Guidry, V., **Johnston, J.E.,** Wing, S. Middle School Exposure to Air Pollution from Concentrated Animal Feeding Operations (CAFOs). *North Carolina Environmental Justice Summit.* Whitakers, NC. October 2013.

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**Johnston, J.E.,** Hricko, A. Diesel Pollution and Health. *Imperial Valley Environmental Health Leadership Summit.* Brawley, CA November 2015.

**Johnston, J.E**. Moving Beyond Silos: Case Study of Lead-Acid Battery Smelter. *International Society on Children’s Environmental Health Annual Retreat.* Cuernavaca, Mexico. January 2016.

**Johnston, J.E.** Building Partnership in Oil & Gas Extraction Communities. *Symposium on the Public Health Dimensions of Oil & Gas Development: Tools, Strategies, and Collaboration*. Los Angeles, CA. January 2016.

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**Johnston, J.E.,** Truax, C., Chan, S., Hricko, A. Community-academic engagement through community monitoring of traffic pollution.*American Public Health Association Annual Meeting.* Denver, CO. November 2016.

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**Johnston JE**. Air Sensors & Community-driven Research: Collaborations from the Field. *Low Cost Air Sensors Conference*. Los Angeles, CA. May 2017. (invited)

Collier C, Wong N, Hannigan M, Navarro S, **Johnston JE.**  Linking Air Quality Data and Community Member Observations to Better Understand Complex Problems. *Citizen Science.* St. Paul, NM. May 2017.

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**Johnston, JE.** Measuring Toxic Metal Exposure: The Truth Fairy Reportback.NIEHS Core Center Annual Meeting. Davis, CA. July 2018.

**Johnston JE**. Lead, Environmental Justice and Battery Smelters: The Case of Southeast Los Angeles. *Western Lead Summit*. Downey, CA. August 2018. (invited)

**Johnston JE**, Storytelling and Air Monitoring: A “Day in the Life” of an Environmental Justice Youth. *Air Sensors International Conference.* Oakland, CA. September 2018.

Metwali N, Steins BR, Adamcakova-Dodd A, Farzan SF, **Johnston JE**, Gilliland FD, Avol E, Thorne PS. Dust Exposome in Southeastern Shore of the Salton Sea, CA. *American Thoracic Society International Conference*. San Diego, CA. August 2018.

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The world eats cheap bacon at the expense of North Carolina’s rural poor. July 14, 2015. *Quartz*.

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