

# Tyler J. S. Smith, MPH

[www.tylerjssmith.com](http://www.tylerjssmith.com) | [tylersmith@jhu.edu](mailto:tylersmith@jhu.edu)

## Education

---

2019-2023 (expected)	Johns Hopkins Bloomberg School of Public Health PhD in Exposure Science and Environmental Epidemiology
2014-2015	Johns Hopkins Bloomberg School of Public Health MPH in Epidemiologic and Biostatistical Methods
2007-2011	Johns Hopkins University BA in History

## Other Training

---

2022	Student Dissertation Workshop Society for Epidemiologic Research (SER) Annual Meeting
2021	Environmental Mixtures Workshop Columbia University SHARP Training Program
2017	U.S. Based National Health Surveys Johns Hopkins Bloomberg School of Public Health Summer Institute

## Professional Experience

---

2016-2019	Earthjustice Staff Scientist, Sustainable Food & Farming
2015-2016	Consumer Reports Manager, Food Safety & Sustainability
2011-2015	Johns Hopkins Center for a Livable Future Program Officer

## Professional and Editorial Activities

---

Committees	Co-Chair, Chemicals & Health Committee, Environment Section (2017-2019) American Public Health Association
Sessions Organized	Taking Action to Defend Science and Protect Public Health at the Environmental Protection Agency American Public Health Association Philadelphia, PA, 2019 November 5  Climate-Friendly Farming: A Public Health Imperative

American Public Health Association  
Atlanta, GA, 2017 November 6

Sessions  
Moderated      Metal Mixtures  
International Society for Environmental Epidemiology North America Chapter  
Corvallis, OR, 2023 June 22

The Environment and Reproductive Risks  
American Public Health Association  
Denver, CO, 2016 November 2

Reviewer      *Environmental Health Perspectives*  
*Environmental Research*

### Honors and Awards

---

2018      Committee of the Year  
Environment Section, American Public Health Association

2015      Delta Omega  
National Honor Society for Public Health

2011      Arthur Kouguel Memorial Prize  
Department of History, Johns Hopkins University  
Best Undergraduate Thesis

### Publications

---

\* Authors contributed equally.

#### *Peer Reviewed*

1. **Smith TJS**, Navas-Acien A, Baker S, Kok C, Kruczynski, ... Heaney CD. (2023). Anthropometric measures and arsenic methylation among pregnant women in rural northern Bangladesh. *Environmental Research*. <https://doi.org/10.1016/j.envres.2023.116453>
2. **Smith TJS\***, Avolio LN\*, Navas-Acien A, Kruczynski K, Pisanic N, ... Heaney CD. (2023). The Pregnancy, Arsenic, and Immune Response (PAIR) Study in rural northern Bangladesh. *Paediatric and Perinatal Epidemiology*. <https://doi.org/10.1111/ppe.12949>
3. **Smith TJS**, Keil AP, Buckley JP. (2022). Estimating Causal Effects of Interventions on Early-life Environmental Exposures Using Observational Data. *Current Environmental Health Reports*. <https://doi.org/10.1007/s40572-022-00388-y>
4. Nachman KE, **Smith TJS**. (2015). Hormone Use in Food Animal Production: Assessing Potential Dietary Exposures and Breast Cancer Risk. *Current Environmental Health Reports*. <https://doi.org/10.1007/s40572-014-0042-8>

5. **Smith TJS**, Wolfson JA, Jiao D, Crupain MJ, Rangan U, ... Nachman KE. (2015). Caramel Color in Soft Drinks and Exposure to 4-methylimidazole: A Quantitative Risk Assessment. *PLoS One*. <https://doi.org/10.1371/journal.pone.0118138>
6. **Smith TJS**, Rubenstein LS, Nachman KE. (2013). Availability of Information about Airborne Hazardous Releases from Animal Feeding Operations. *PLoS One*. <https://doi.org/10.1371/journal.pone.0085342>
7. Maron DF, **Smith TJS**, Nachman KE. (2013). Restrictions on Antimicrobial Use in Food Animal Production: An International Regulatory and Economic Survey. *Globalization and Health*. <https://doi.org/10.1186/1744-8603-9-48>

#### Other

1. Nachman KE, **Smith TJS**, Martin RP. (2014). Antibiotics: Call for Real Change. *Science*. <https://doi.org/10.1126/science.343.6167.136-a>
2. Lawrence RS, Nachman KE, **Smith TJ**. (2013). Antibiotics: Collect More US Data. *Nature*. <https://doi.org/10.1038/500400b>

#### Presentations

---

† Smith TJS presented.

#### Oral Presentations

1. **Smith TJS**, Navas-Acien A, Baker S, Kok C, Kruczynski, ... Heaney CD. (2023). Adiposity and Arsenic Methylation among Pregnant Women in Rural Northern Bangladesh: Are Associations Confounded by One-carbon Metabolism Micronutrient Status? International Society for Environmental Epidemiology (ISEE) North America Chapter Meeting. Corvallis, OR. June 19-22.
2. **Smith TJS**. (2022). Prenatal Arsenic Exposure and Influenza-like Illness among Infants in Rural Northern Bangladesh: Assessing Intervention Effects with the Parametric G-Formula. Student Dissertation Workshop. Society for Epidemiologic Research (SER) Annual Meeting. Chicago, IL. June 14-17.
3. **Smith TJS**. (2022). Drinking Water Arsenic, Hemoglobin, and Anemia among Pregnant Women in Rural Northern Bangladesh. University of Minnesota School of Public Health-Johns Hopkins Bloomberg School of Public Health Special Joint Research Symposium. April 1.
4. **Smith TJS**, Buckley JP, Navas-Acien A, Pearce JL, Avolio LN, ... Heaney CD. (2021). Using Self-organizing Maps to Identify Metal Mixture Exposures in Pregnant Women in Rural Northern Bangladesh. International Society of Exposure Science (ISES) Annual Meeting. Virtual. August 30-September 2.
5. **Smith TJS**, Avolio LN, Navas-Acien A, Goessler W, van Geen A, ... Heaney CD. (2021). Arsenic Methylation and Body Composition among Pregnant Women in Rural Northern Bangladesh: The

PAIR Study. International Society for Environmental Epidemiology (ISEE) Annual Meeting. Virtual. August 23-26. <https://doi.org/10.1289/isee.2021.O-LT-043>

6. **Smith TJ**. Censoring Science: How the Trump Administration Is Trying to Control the Data and Models Used in EPA Decision-Making. (2019). American Public Health Association (APHA) Annual Meeting. Philadelphia. November 2-6.
7. **Smith TJ**. Industrial Agriculture: Causes and Consequences of Climate Pollution. (2017). American Public Health Association (APHA) Annual Meeting. Atlanta. November 4-8.

#### *Posters*

1. **Smith TJS**, Buckley JP, Navas-Acien A, van Geen A, Fry RC, ..., Heaney CD. (2023). Drinking Water Arsenic and Blood Hemoglobin among Women in Rural Northern Bangladesh: Comparing Associations in Pregnancy and Postpartum. Society for Pediatric and Perinatal Epidemiologic Research (SPER) Annual Meeting. Portland, OR. June 12-13.
2. **Smith TJS**, Buckley JP, Navas-Acien A, Fry RC, van Geen A, ... Heaney CD. (2022). Drinking Water Arsenic, Hemoglobin, and Anemia among Pregnant Women in Rural Northern Bangladesh. International Society for Environmental Epidemiology (ISEE) Annual Meeting. Athens, Greece. September 18-21. <https://doi.org/10.1289/isee.2022.P-1210>
3. Heaney CD, **Smith TJS†**, Ali H, Alland K, Avolio LN, ... Labrique AB. (2020). Arsenic and Immune Response to Influenza Vaccination in Pregnant Women and Newborns. International Society for Environmental Epidemiology (ISEE) Annual Meeting. Virtual. August 24-27. <https://doi.org/10.1289/isee.2020.virtual.P-0537>
4. Maron DF, **Smith TJ†**, Nachman KE. (2013). Restrictions on Antimicrobial Use in Food Animal Production: An International Regulatory and Economic Survey. American Public Health Association (APHA) Annual Meeting. Boston, MA. November 2-6.
5. **Smith TJ**, Rubenstein LS, Nachman KE. (2012). Availability of Information about Airborne Hazardous Releases from Animal Feeding Operations. North Carolina Environmental Justice Summit. Whitakers, NC. October.

#### **Teaching**

---

##### *Guest Lectures*

- |      |   |
|------|---|
| 2021 | Risk Assessment in Agency Decision-making<br>Course: Food Systems and US Environmental Law<br>Columbia Law School<br>Instructor: Peter Lehner |
| 2021 | Risk Assessment in Agency Decision-making<br>Course: Food Systems and Environmental Law<br>Yale Law School<br>Instructor: Peter Lehner        |

2020	Risk Assessment in Agency Decision-making Course: Food Systems and US Environmental Law Columbia Law School Instructor: Peter Lehner
2019	Risk Assessment in Agency Decision-making Course: Food Systems and US Environmental Law Columbia Law School Instructor: Peter Lehner
2017	Childhood Lead Poisoning Course: Risk Policy, Management, and Communication Johns Hopkins Bloomberg School of Public Health Instructor: Dr. Mary Fox
2011	Public Health and the Regulation of Concentrated Animal Feeding Operations under the Clean Water Act Course: Food Production, Public Health, and the Environment Johns Hopkins Bloomberg School of Public Health Instructors: Dr. Bob Lawrence, Dr. Keeve Nachman, Dr. Polly Walker

#### *Teaching Assistantships*

2023	Molecular Epidemiology & Biomarkers in Public Health Johns Hopkins Bloomberg School of Public Health Instructor: Dr. Jessie Buckley
2022	Molecular Epidemiology & Biomarkers in Public Health Johns Hopkins Bloomberg School of Public Health Instructor: Dr. Jessie Buckley
2021-2022	Exposure Sciences & Environmental Epidemiology Journal Club Johns Hopkins Bloomberg School of Public Health Instructor: Dr. Genee Smith
2021	Environmental & Occupational Epidemiology Johns Hopkins Bloomberg School of Public Health Instructors: Dr. Eliseo Guallar, Dr. Chris Heaney
2014	Introduction to the Risk Sciences & Public Policy Johns Hopkins Bloomberg School of Public Health Instructors: Dr. Tom Burke, Dr. Mary Fox, Dr. Keeve Nachman
2014	Introduction to the Risk Sciences & Public Policy (Online) Johns Hopkins Bloomberg School of Public Health Instructors: Dr. Tom Burke, Dr. Juleen Lam

2013

Introduction to the Risk Sciences & Public Policy  
Johns Hopkins Bloomberg School of Public Health  
Instructors: Dr. Tom Burke, Dr. Mary Fox, Dr. Keeve Nachman