

# Tyler J. S. Smith, PhD, MPH

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## Education

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2019-2023	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

## Academic Appointments

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2023-	Icahn School of Medicine at Mount Sinai Postdoctoral Fellow, Environmental Medicine & Public Health
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## Professional Experience

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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

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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*  
*Exposure and Health*

### Honors and Awards

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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

### Other Training

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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

### Publications

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\* 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

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† 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

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##### Guest Lectures

2021                      Risk Assessment in Agency Decision-making  
 Course: Food Systems and US Environmental Law

Columbia Law School  
Instructor: Peter Lehner

- 2021 Risk Assessment in Agency Decision-making  
Course: Food Systems and Environmental Law  
Yale Law School  
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