

# Jamie T. Mullins

Department of Resource Economics  
University of Massachusetts Amherst  
225D Stockbridge Hall - 80 Campus Center Way  
Amherst, MA 01003

[jmullins@umass.edu](mailto:jmullins@umass.edu)  
[people.umass.edu/jmullins](http://people.umass.edu/jmullins)  
(413) 577-0975

---

## Academic Position:

University of Massachusetts Amherst

-Associate Professor (with Tenure): Resource Economics Department, 9/2022 – Present

-Assistant Professor: Resource Economics Department, 7/2015 – 8/2022

## Education:

Ph.D. – Economics: 2015 – University of California San Diego

*Dissertation Title:* The Regulation and Health Effects of Air Pollution

*Committee:* Joshua Graff Zivin (Chair), Richard Carson, Gordon Dahl, Craig McIntosh,  
Prashant Bharadwaj, Gordon McCord

M.A. – Economics: 2012 – University of California San Diego

B.S. – Industrial Engineering and Operations Research: 2006 – University of California Berkeley

## Fellowships:

- Erskine Fellow, University of Canterbury, Christchurch, NZ, 2023.
- Research Collaborator with the Crisis Text Line and CrisisTrends.org, 2021-present.
- UMass Sustainability Curriculum Fellow, 2018-2019.
- Lone Mountain Fellow: Property and Environment Research Center (PERC), Bozeman, MT, 2016.
- Center on Emerging and Pacific Economies (EmPac) Pre-Doctoral Fellow, UCSD, 2012-2014.

---

## Publications:

Hargrave, J.Rebecca, Richard W. Harper, Brett J. Butler, and Jamie T. Mullins. “**Municipal Forest Program Management in the United States of America: A Systematic Review.**” *Forests* 2023, 14, 35.

Sexton, Steven, Zhenxuan Wang, and Jamie T. Mullins. "Heat Adaptation and Human Performance in a Warming Climate." *Journal of the Association of Environmental and Resource Economists* 9, no. 1 (2022): 141-163.

Mullins, Jamie T., and Corey White. "Can access to health care mitigate the effects of temperature on mortality?." *Journal of Public Economics* 191 (2020): 104259.

Gibson, Matthew, and Jamie T. Mullins. "Climate risk and beliefs in New York floodplains." *Journal of the Association of Environmental and Resource Economists* 7.6 (2020): 1069-1111.

Mullins, Jamie T. and Corey White, “Temperature and Mental Health: Evidence from the Spectrum of Mental Health Outcomes,” *Journal of Health Economics* 68 (2019): 102240.

Shepherd, Andrew, and Jamie T. Mullins. "Arthritis diagnosis and early-life exposure to air pollution." *Environmental Pollution* 253 (2019): 1030-1037.

Mullins, Jamie T., “Motivating Emissions Cleanup: Absolute vs. Relative Performance Standards.” *Journal of Environmental Economics and Management* 91 (2018): 66-92.

Mullins, Jamie T., “**Ambient Air Pollution and Human Performance: Contemporaneous and Acclimatization Effects of Ozone Exposure on Athletic Performance.**” *Health Economics* 27 (2018): 1189-1200.

Mullins, Jamie, Joshua Graff Zivin, Andrea Cattaneo, Adriana Paolantonio, and Romina Cavatassi, “**The Adoption of Climate Smart Agriculture: The Role of Information and Insurance under Climate Change,**” in *Climate Smart Agriculture - Building Resilience to Climate Change*, D Zilberman, L Lipper, N McCarthy, S Asfaw, and G Branca (Eds.) Springer, 2018: 353-383.

Bharadwaj, Prashant, Joshua Graff Zivin, Jamie T. Mullins, and Matthew Neidell. “**Early-life Exposure to the Great Smog of 1952 and the Development of Asthma.**” *American Journal of Respiratory and Critical Care Medicine* 194, no. 12 (2016): 1475-1482.

Graff Zivin, Joshua, and Jamie Mullins. “**Vessel Buybacks in Fisheries: The Role of Auction and Financing Structures.**” *Marine Policy* 53 (2015): 188-197.

Currie, Janet, Joshua Graff Zivin, Jamie Mullins, and Matthew Neidell. “**What Do We Know About Short- and Long-Term Effects of Early-Life Exposure to Pollution?.**” *Annual Review of Resource Economics* 6, no. 1 (2014): 217-247.

Mullins, Jamie, and Prashant Bharadwaj. “**Effects of Short-Term Measures to Curb Air Pollution: Evidence from Santiago, Chile.**” *American Journal of Agricultural Economics* (2014): aau081.

#### **Grant-Based Projects:**

*Proposal Submitted to NSF:* PIPP Phase I: Building Predictive Intelligence and Pandemic Resilience with Privacy-Sensitive Syndromic Surveillance w/ Tauhidur Rahman, Laura Barnes, John Brownstein, Stephanie Carreiro, Hava Siegelmann, and Andres Tejada, 2022-2023.

*NSF Funded Planning Grant:* Understanding Heat Resiliency via Physiological, Mental, and Behavioral Health Factors for Indoor and Outdoor Urban Environments w/ Suren Jayasuriya, Ariane Middel, and Tauhidur Rahman, 2020-2021.

*UMass Internally Funded Grant:* “Temperature, Air Pollution, and Performance in the Information Economy: Conditions and Outcomes in New Delhi,” w/ Alex Hollingsworth, 2020-2021.

#### **Working Papers:**

“Valuing the Disamenity of Open Dump Sites: A Sri Lankan Case Study,” with Gayan Udugama (Under Submission)

“Weather, Climate, and Migration in the United States,” with Prashant Bharadwaj. NBER Working Paper No. 28614. – New Version with Patrick Baylis and Nicholas Obradovich also.

“Air Pollution and Suicide in Rural and Urban America: Evidence from Wildfire Smoke,” with David Molitor and Corey White.

“Flood Insurance: Demand and Selection.” with Matthew Gibson and Carolyn Kousky.

“Driving Avoidance Behavior: The Benefits of Government Warnings and Precautionary Public Action Regarding Air Pollution,” with Kelly L. Hellman.

#### **Research in Progress:**

“Cognitive Capacity, Mental Well-Being, and the Local Environment: Evidence from Urban India in the Time of COVID,” with Patrick Carlin and Alex Hollingsworth.

“Worker Productivity and Local Environmental Conditions in Indian Call Centers,” with Sarojini Hirshleifer and Deepshikha Batheja.

“Malaria and Earnings: Contemporaneous and Lifetime Impacts of Exposure,” with Gordon McCord.

“Temperature, Air Pollution, and Healthcare Utilization in Andhra Pradesh,” with Debi Mohapatra and Teevrat Garg.

“Conservation, Development, and Women in Local Political Leadership: Female Reservations in Indian Gram Panchayats,” with Onupurba Das

“Risk Signals and Insurance Purchases in a Changing Climate,” with Gayan Udugama

“How does Political Representation Contribute to Advancement of Scheduled Castes?,” with Prashikdivya Gajbhiye

“The Amenity Values of New York City Bike Lanes,” with Joshua Graff Zivin.

“Permanence of Clean Fuel Transitions: Evidence from a Natural Gas Supply Shock in Chile,” with Ethan Young.

**Other Publications:**

Mullins, Jamie T., “Ground-level ozone continues to damage health, even at low levels.” *The Conversation*, September 16, 2018. <https://theconversation.com/ground-level-ozone-continues-to-damage-health-even-at-low-levels-99182>.

Mullins, Jamie T., “What causes asthma? Clues from London’s Great Smog with implications for air pollutions today.” *The Conversation*, July 26, 2016. <https://theconversation.com/what-causes-asthma-clues-from-londons-great-smog-with-implications-for-air-pollution-today-62468>.

**Teaching:**

Resource Economics 720: Environmental and Natural Resource Economics I – 6 times  
Resource Economics 721: Environmental and Natural Resource Economics II – 2 time  
Resource Economics 213: Intermediate Statistics for Business and Economics – 6 times  
Resource Economics 397E: Economic Development and the Environment – 4 times  
Resource Economics 162: Economics is Everywhere – 4 times

**Professional Activities:**

Served as a peer reviewer for: *American Economic Review*, *Nature Human Behavior*, *PLOS One*, *American Economic Journal: Economic Policy*, *Management Science*, *Journal of Public Economics*, *Economic Journal*, *Journal of the Association of Environmental and Resource Economists*, *Journal Environmental Economics and Management*, *Journal of Health Economics*, *Oxford Bulletin of Economics and Statistics*, *Labour Economics*, *American Journal of Health Economics*, *Environmental and Resource Economics*, *American Journal of Agricultural Economics*, *Climactic Change*, *British Medical Journal – Open*, *Resource and Energy Economics*, *Journal of Marine Policy*, *Southern Economic Journal*, *Health Economics*, *International Journal of Biometeorology*, *Geneva Papers on Risk and Insurance*, *Journal of Population Economics*, *Environmental Research Letters*; *Atmosphere*

**Graduate Students Supervised:**

2022-Present: Osung Kwon, PhD  
2022-Present: Taehyun Kim  
2021-Present: Katherine Wood, MS  
2020-Present: Sparshi Srivastava  
2020-Present: Prashikdivya Gajbhiye, PhD  
2019-Present: Gayan Udugama, PhD  
2017-Present: Onupurba Das, PhD  
2021-2022: Webster Batista-Lin, MS

2016-2018: Kelly Hellman, PhD  
2017-2018: Andrew Shepard, MS  
2016-2018: Matthew Wasserman, MS  
2015-2016: Jayash Paudel, MS

**Invited Seminars and Conference Presentations:**

- “Environmental factors contributing to worker well-being and productivity in Indian Call-Centers”  
Association of Environmental and Resource Economists Annual Meetings  
June 1-3, 2022 – Miami, FL
- “Mental Health and the Environment among Elderly Indians”  
Gateway to Global Aging Data Workshop  
May 23-26, 2022 – Jackson, WY
- “Climate and Migration”  
22nd Annual CU Environmental and Resource Economics Workshop  
October 1-2, 2021 – Vail, CO
- “Cognitive Capacity, Mental Well-being, and the Local Environment: Evidence from Urban India in the time of COVID”  
Association of Environmental and Resource Economists Annual Meetings  
June 2-4, 2021 Fully Remote
- “Climate and Migration: Evidence from Temperature Shocks in the US”  
Eastern Economic Association Annual Meetings  
February 25-28, 2021 – New York, NY (presented remotely)
- “Temperature and Migration over the Short and Long Terms”  
Southern Economic Association Annual Meetings  
November 20-22, 2020 – Houston, TX (presented remotely)
- “Access to Healthcare and Temperature-related Morbidity”  
Northeast Agricultural and Resource Economics Association Annual Meetings  
June 9-10, 2019 – Portsmouth, NH
- “Demand for Flood Insurance”  
Association of Environmental and Resource Economists Annual Meetings  
May 30- 31, 2019 – Incline Village, NV
- “Climate change and flood risk: Evidence from New York City real estate”  
Environmental and Water Resources Seminar in Civil and Environmental Engineering  
March 1, 2019 – Amherst, MA
- “Temperature and Mental Health: Evidence from the Spectrum of Mental Health Outcomes”  
IDS Climate Change, Diversity, & Disparities (CCDD) Research Group Meeting  
February 4, 2019 – Amherst, MA
- “Climate change and flood risk: Evidence from New York City real estate”  
Allied Social Science Associations 2019 Annual Meeting

January 4-6, 2019 – Atlanta, GA

“Temperature, Climate Change, and Mental Health”  
2018 UMass System Econ Conference  
October 27, 2018 – Lowell, MA

“Temperature, Climate Change, and Mental Health”  
Fitbit Boston Offices, Research Scientist Seminar  
September 14, 2018 – Boston, MA

“Climate change and flood risk: Evidence from New York City real estate”  
The American Real Estate and Urban Economics Association 2018 National Conference  
May 31-June 1, 2018 – Washington, DC

“Climate change and flood risk: Evidence from New York City real estate”  
University of Connecticut, Department of Agricultural and Resource Economics Seminar  
April 18, 2018 – Storrs, CT

“Temperature, Climate Change, and Mental Health”  
19th Annual CU Environmental and Resource Economics Workshop  
September 15-16, 2017 – Vail, CO

“Climate, Migration, and Labor Market Opportunities: Evidence from U.S. Temperature Shocks”  
IZA Workshop on the Environment and Labor Markets  
August 31-September 1, 2017 – Bonn, Germany

“Climate change, flood risk, and property values: Evidence from New York City”  
Western Economic Association International Annual Meetings  
June 25-29, 2017 – San Diego, CA

“Temperature, Climate Change, and Mental Health”  
Association of Environmental and Resource Economists Annual Meetings  
May 31- June 2, 2017 – Pittsburgh, PA

“Climate change, flood risk, and property values: Evidence from New York City”  
Department of Economics, Applied Seminar, UMASS Amherst  
May 26, 2017 – Amherst, MA

“Climate change, flood risk, and property values: Evidence from New York City”  
Southern Economic Association Annual Meetings  
November 19-21, 2016 – Washington, DC

“Ambient Air Pollution and Human Performance: Contemporaneous and Acclimatization Effects of Ozone Exposure on Athletic Performance”  
Western Economic Association International Annual Meetings  
June 29- July 2, 2016 – Portland, OR

“Sea level rise, flood risk, and property values: Evidence from New York City”  
Association of Environmental and Resource Economists Annual Meetings

June 9-11, 2016 – Breckenridge, CO

“Intertemporal Effects of Ambient Ozone Exposure on Human Performance”  
Southern Economics Association Annual Meetings  
November 21-23, 2015 – New Orleans, LA

“The Long Term Effects of Early Childhood Exposure to Pollution: Evidence from the London Smog Incident of 1952”  
Annual All-UC Conference on Energy and Environmental Economics, Hosted by UCE<sup>3</sup>  
September 19, 2014 – Berkeley, CA

“Absolute vs. Relative Performance Standards: Motivating Firms to Clean-up Emissions.” (poster)  
All-California Labor Economics Conference  
September 18-19, 2014 – Berkeley, CA

“Ambient Air Quality and Athletic Performance”  
Workshop on Environmental Quality and Human Health, Hosted by PERC  
August 10-12, 2014 – Bozeman, MT

"The Effectiveness of Environmental Alerts: Evidence from Santiago, Chile"  
Pacific Conference for Development Economics (PacDev)  
March 9, 2013 – San Francisco State University, San Francisco, CA

“Government Intervention and Short Run Air Quality in Santiago, Chile” (poster)  
All-California Labor Economics Conference  
September 13-14, 2012 – Federal Reserve Bank of San Francisco, San Francisco, CA