

Sparshi Srivastava
Curriculum Vitae, May 2026

University of Massachusetts Amherst
Department of Resource Economics
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Pronouns: she/her

EDUCATION

University of Massachusetts Amherst, Ph.D. in Resource Economics, Expected June 2026
South Asian University, India, M.A. in Development Economics, 2016
University of Delhi, India, B.A. Honors in Economics, 2014

FIELDS

Environmental Economics, Applied Microeconomics, Health Economics,

JOB MARKET PAPER

“Effectiveness and Distributional Impacts of Environmental Regulation: Evidence from the National Clean Air Program in India”

India launched the National Clean Air Program (NCAP) in 2019 as a major policy initiative aimed at reducing particulate pollution in severely affected cities. This paper evaluates the effect of NCAP on PM2.5 concentrations using a matched, difference-in-differences identification strategy with high-resolution, daily PM2.5 data. I find that between 2021 and 2023, NCAP failed to significantly reduce average PM2.5 levels or the number of days exceeding the Indian guideline for ambient air quality. This null average effect, however, hides substantial heterogeneity. I find that sub-districts that had poorer air quality prior to the start of the program have reduced PM2.5 concentrations by 8 percent under NCAP. I also find that PM2.5 concentrations in wealthier sub-districts have declined slightly, but that PM2.5 concentrations in the poorer sub-districts have increased by an average of 6 percent. These results show that aggregate null effects conceal meaningful heterogeneity: NCAP improved air quality where pollution was most severe but may have worsened conditions for the least affluent.

PUBLICATIONS

“Effects of Environmental Exposures on Weight-Related Behaviors and Outcomes” with Brandyn Churchill – (2025) *Journal of Environmental Economics and Management* 131: 103138.

“Temperature, Mental Health, and Individual Crises: Evidence from Crisis Text Line,” with Jamie T. Mullins – (2025) *American Journal of Health Economics*, 11, no. 4: 000-000.

WORK IN PROGRESS

“Temperature and Cognitive Health Among India’s Older Population,” with Jamie T. Mullins

“The Impact of Air Pollution on Mental Health: Evidence from the Korean Longitudinal Study of Aging” with Taehyun Kim

“Heat and Labor: Temperature Shocks, Productivity, and Sectoral Divisions in India”

“Environmental Exposure and Time Allocation: Evidence from Indian Time Use Survey”

TEACHING EXPERIENCE

Course Instructor, University of Massachusetts Amherst

First Year Seminar Course (RES-ECON 191): Fall 2025

Environmental Economic (RES-ECON 262): Summer 2025

Intermediate Statistics for Business and Economics (RES-ECON 213): Summer 2023, 2024

Hunger in the Global Economy (RES-ECON 121): Summer 2022

Math Camp for incoming Ph.D. students: August 2021

Teaching Assistant, University of Massachusetts Amherst

Introductory Statistics for the Social Sciences (RES-ECON 212): Fall 2024, Spring 2025

Managerial Economics (RES-ECON 428): Spring 2024

Advanced Topics in Environmental and Resource Economics (RES-ECON 472): Fall 2023, 2025

Experimental Economics (RES-ECON 440): Fall 2023

Natural Resource Economics (RES-ECON 263): Fall 2020, 2021, 2022

Decision Analysis (RES-ECON 313): Spring 2020, 2021, 2022, 2024

Hunger in the Global Economy (RES-ECON 121): Fall 2019

CONFERENCE PRESENTATIONS

2026: ASHEcon Summer Conference (Poster and Discussant), WCERE

2025: CREA Fall Conference (Selected)

2024: NAREA Summer Conference, SEA Conference

2023: AERE Summer Conference, ASHEcon Summer Conference (Presentation and Discussant), APPAM Fall Research Conference

ACADEMIC AWARDS

ASHEcon Diversity Scholarship, 2024

NAREA Student Scholarship, 2024

Graduate Fellows Travel Grant, University of Massachusetts Amherst, 2023, 2024

OTHER RESEARCH EXPERIENCE

Research Assistant, University of Massachusetts Amherst, *to Dr. David Keiser*, Summer 2021

Research Assistant, Institute for Rural Management Anand (IRMA), *to Dr. Vivek Pandey*, 2016 – 2019

“Impact Assessment of Tejaswini Maharashtra Rural Women Empowerment Program of MAVIM,” funded by IFAD

“Independent Assessment of DAY-NRLM in Jammu and Kashmir,” funded by the Ministry of Rural Development, Government of India

SERVICES

Abstract Reviewer: APPAM, 2026

Discussant: ASHEcon, 2023, 2025, 2026

Department of Resource Economics Graduate Council, *Cohort Representative*, 2024

Hiring Committee (new professor hiring), 2024

MEMBERSHIPS

American Economic Association (AEA)
Association of Environmental and Resource Economists (AERE)
American Society of Health Economics (ASHEcon)

SKILLS

Statistical Package: Stata, R, ArcGIS, Google Earth Engine
Productivity: Ms. Office, LaTeX

REFERENCES

Jamie T. Mullins (Committee Chair)
Associate Professor
Department of Resource Economics
University of Massachusetts Amherst
jmullins@umass.edu

Brandyn F. Churchill (Committee Member)
Assistant Professor
Department of Public Administration & Policy
American University
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John K. Stranlund
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Tihitina Andarge
Assistant Professor
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