Jasdeep Mandia

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RESEARCH FIELDS

Environmental and Energy Economics, Applied Microeconomics

EDUCATION

Arizona State University
Ph.D. in Economics 2023
- Committee: Nicolai Kuminoff (chair), Kelly Bishop, Alvin Murphy

University of Chicago Booth School of Business
MBA 2018

Indian Institute of Management, Lucknow, India
Post Graduate Diploma in Management 2012

Indian Institute of Technology, Roorkee, India
Bachelor of Technology 2006

WORKING PAPERS

"Valuing Noise Pollution in a Residential Sorting Model: Evidence from Flight Path Changes in Phoenix, Arizona"

Noise pollution from airplanes can reduce property values by creating a dis-amenity for residents. I estimate the effect of noise pollution on residential properties in the Phoenix metropolitan area, Arizona, using the quasi-random variation in flight routes. I use two changes in the noise exposure: computer-generated optimized flight path and reversal after the court's intervention. I develop the residential sorting model with heterogeneous preferences. The identification of these preferences on the spatial and temporal variation. My model estimate the mean MWTP to avoid noise pollution to be $4,755. I also find the heterogeneity in the preference and the MWTP to avoid noise pollution could vary from $3,000 to $7,000 with older and higher-income households have a higher WTP to avoid noise pollution. I relax the assumption on time-variant unobserved quality and find that ignoring this assumption overestimates the MWTP by 100%.

WORK IN PROGRESS

"Estimation of Electricity Access and Demand in the Republic of Yemen"

The conflict in Yemen significantly reduced access to reliable electricity. It is important to understand the access and demand for electricity. This study surveyed 1,052 Yemeni consumers to assess their current electricity access and preferences for improvements. A stated discrete choice model with randomized attributes was employed to estimate household Willingness to Pay (WTP) for various electricity access attributes, including consumption level and daily availability. The survey revealed that 82%, 18%, and 14% of households have access to electricity from solar, private grid, and national grid, respectively. The study found that consumers are willing to pay $1.80 per month for an additional hour of electricity availability. Moreover, they expressed a willingness to pay $6.50 for the capacity to power small, low-consuming appliances such as televisions, washing machines, and refrigerators, and $16.60 for both low-consuming and high-consuming appliances, such as air conditioners or heaters. Notably, consumers exhibited a negative MWTP (-$13.40) for electricity access limited to supporting basic lighting and phone charging.

SEMINAR AND CONFERENCE PRESENTATIONS

Paper: "Capitalization of Noise Pollution and Environmental Justice: Evidence from Two Quasi-Random Changes to Flight Paths"

- Urban Economic Association 2022
- NCSU Camp Resources 2021
- Southern Economic Association 2021
- Urban Economic Association 2021

PROFESSIONAL SERVICES

Referee
Journal of the Association of Environmental and Resource Economists

EMPLOYMENT

RA to Dr. Nicholai Kuminoff, ASU	Academic year 2021-22
RA to Dr. Michael Hanemann, ASU	Academic year 2022-23
Consultant, The World Bank	Summer 2020
Consultant, The World Bank	Summer 2018
Consultant, Energy Policy Institute at University of Chicago	Spring 2018
Research Manager, J-PAL South Asia	2012-2015

TEACHING

Courses Taught

Business Statistics — Summer 2022

Teaching Assistant

Economic Development — Fall 2019, Spring 2020

Macroeconomic Principles — Spring 2021

PROGRAMMING

Python, Stata, ArcGIS Pro, Matlab