Ruozi Song

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Department of Economics

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Education

University of Southern California Los Angeles, CA
  Ph.D. Candidate in Economics 2017-2023
  Field: Environmental Economics, Industrial Organization

New York University New York, NY
  M.A. in Economics 2014-2016

Fudan University Shanghai, China
  B.S. in Statistics at School of Management (with honor) 2010-2014
  Summer school at Washington University in St. Louis (Summer 2012)

References

Prof. Antonio M. Bento, University of Southern California, abento@usc.edu

Prof. Paulina Oliva, University of Southern California, olivaval@usc.edu

Prof. Robert D. Metcalfe, University of Southern California, robert.metcalfe@usc.edu

Working Papers

"Misallocation Revisited: Importance of Firm Heterogeneity for Environmental Regulations"
  - Estimate firm-level emission tax pass-through and document the intra-industry heterogeneity
  - Construct a general equilibrium model that measures the welfare loss of policies which ignore firm-level heterogeneity

"Coal Phase-out in a Second-Best Setting: Evidence from China's Winter Heating Ban"
(with Antonio M. Bento, Bing Zhang)
  - Document the unintended consequences of a quasi-experiment - the ban on coal usage in heating sector in China - using an event-study design
  - Explore mechanisms of pollution increase through firm-level strategic emission reactions to the fluctuation of natural gas price

"Familiarity Facilitates Adoption: The Case of BlueLA" (with Jonathan A. Libgober)
  - Exploit an electric vehicle sharing program as a quasi-experiment for information treatment
  - Employ a staggered difference-in-differences design to estimate the effect of information on electric vehicle adoption
  - Construct a buyer-seller framework with incomplete information and sellers' optimal information design to rationalize the findings

Work in Progress

"Using Big Data to Estimate the Environmental Benefits of Congestion Pricing in the Los Angeles and San Francisco Metropolitan Areas" (with Antonio M. Bento, Rajat Kochhar, Andrew R. Waxman)

- Estimate the casual relationship between traffic and pollution on highways with high-frequency data using LASSO and instrument variable approach
- Construct a structural model to understand how travelers make decisions on departure time, routes, and mode of transportation when facing congestion pricing
- Simulate the spatial and temporal pollution redistribution of congestion pricing

Other Writing

"Good for the Environment, Good for the Economy: The Potential of Select Industrial Policies in the Transportation Electrification Sector to Contribute to Regional Economic Growth in the Greater Los Angeles Area" (with Sam Boysel, Dan Ibarrola, Monica Morlacco, and Kate Weber), *Public Exchange at University of Southern California and Los Angeles Cleantech Incubator*, May 2022.

Awards and Fellowships

Dornsife/Graduate School Fellowship	2022-2023
Oakley Endowed Fellowship	2021-2022
Daniel and Mary James Fellowship	2020-2021
Best Teaching Assistant Award, USC	2019
Graduate Fellowship, USC	2017-2018

Seminar and Conference Presentations

2021: The Seventh Annual Volatility Institute Conference at NYU Shanghai (virtual), 2021 International Transport Economics Association Annual Conference (Rome, virtual), Association of Environmental and Resource Economists (AERE) 2021 Summer Conference (virtual)

2020: Empirical Methods in Energy Economics (ETH Zurich), Berkeley/Sloan Summer School in Environmental and Energy Economics (UC Berkeley, virtual), Environmental and Energy Economics Brownbag (USC, virtual)

Non-Academic Experience

Utofun Inc.   New York, NY
Economist   2016-2017

- Managed millions of housing construction/transaction records using SQL and AWS
- Led the research team to write market reports for major neighborhoods in NYC
- Built borough-level house price index in R using S&P/Case-Shiller method
- Represented Utofun in TV interviews to comment on regional housing market

Skills

Software: R, Python, Matlab, Stata, ArcGIS, SQL, SAS, Tableau
Languages: Mandarin (native), English (fluent)