

Dr. Luis Sarmiento

Environmental Economist

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Applied economist focusing on causal inference. As an experienced professional, I have developed a strong expertise in applied econometrics, energy modeling, and agent-based models. My research focuses on critical issues such as the sub-clinical effects of air pollution (productivity, well-being), city policies to decrease environmental externalities, the energy transition, and climate change.





📁 Work Experience

DATES	POSITION	INSTITUTION	ACTIVITIES	COUNTRY
Sep.2022 -	Junior Scientist	European Institute on Economics and the Environment	<ul style="list-style-type: none">• Applied econometrics and causal inference.• Design of micro-economic agent-based models.• Scientific support to institutional activities.• Mentoring of junior scholars.• Study the relationship between digitalization and the environment.	
Sep.2020 Sep.2022	Postdoc Researcher	European Institute on Economics and the Environment	<ul style="list-style-type: none">• Applied econometrics and causal inference.• Scientific support to institutional activities.• Study the relationship between digitalization and the environment.	
Apr.2017 Sep.2020	Research Associate	German Institute of Economic Research	<ul style="list-style-type: none">• Publication of scientific articles on energy and environmental economics.• Research on the effects of air pollution and air pollution control policies on productivity, health, and wellbeing.	
Nov.2019 Aug.2020	Research Associate	Hertie School of Governance	<ul style="list-style-type: none">• Study the relationship between daylight savings and transit patterns.	
Sep.2012 Sep.2015	Business Executive	Banco del Bajío SA	<ul style="list-style-type: none">• Financial advice to small and midium-sized companies	

🎓 Education

DATES	DEGREE	INSTITUTION	DISSERTATION	COUNTRY
Apr.2017 Aug.2020	Doctor in Economics (Summa Cum Laude)	Berlin Institute of Technology	An Econometric Analysis of Environmental Phenomena	
Sep.2014 Apr.2016	Master of Science in Economics and Management	Humboldt University of Berlin	Electricity Production from Renewable Sources in Mexico: A Time Series Analysis	
Aug.2007 Aug.2012	Bachelor of International Business	University of Lasalle Bajío	A Project of Foreign Direct Investment between Mexico and Colombia	

👤 Teaching

YEAR	SEMESTER	INSTITUTE	LECTURE	LEVEL	COUNTRY
2023	Winter (upcoming)	University of Bologna - Bologna Business School	Environmental Economics and Policy	MBA	
2023	Summer	University of Bologna - Bologna Business School	Environmental Economics and Policy	MBA	
2019	Summer	Berlin Institute of Technology & German Institute of Economic Research	Applied Econometrics for Energy & Environmental Economists	Ph.D	
2018	Summer	Berlin Institute of Technology & German Institute of Economic Research	Applied Econometrics for Energy & Environmental Economists	Ph.D	

Publications

YEAR	ARTICLE	JOURNAL	AUTHORS	AFFILIATIONS
2022	The Nonlinear Effects of Pollution on Crime: Evidence from Mexico City and New York	Environmental Research - Health	• Luis Sarmiento	• RFF-CMCC
2021	Air Pollution and the Productivity of High-Skill Labor: Evidence from Court Hearings	Scandinavian Journal of Economics 124: 301-332.	• Luis Sarmiento	• RFF-CMCC
2021	Mexico and US Power Systems Under Variations in Natural Gas Prices	Energy Policy, 151, 113378	• Luis Sarmiento • Juan Rosellon • Sauleh Siddiqui • Max Brown • Avraam Charalampos • Anahi Molar • Baltazar Solano	• RFF-CMCC and DIW Berlin • CIDE • American University • National Renewable Energy Laboratory • Munich Institute of Technology • New York University • University College London
2021	The Role of Energy Storage in the Uptake of Renewable Energy: A Model Comparison Approach	Energy Policy 151, 112159	• Sara Giarola • Luis Sarmiento • Kathleen Vaillancourt • Max Brown • Anahi Molar • Ivan Garcia Kerdan	• University College London • RFF-CMCC & DIW Berlin • ESMIA Consultants • National Renewable Energy Laboratory • Munich Institute of Technology • University College London
2021	The Effects of the 2013 Floods on Germany's Road Freight Traffic	Transportation Research Part D, S.1022774	• Julio Fournier • Luis Sarmiento	• DIW Berlin • DIW Berlin
2019	Analysing Scenarios for the Integration of Renewable Energy Sources in the Mexican Energy System	Energies, 12.17, 3270	• Luis Sarmiento • Thorstan Burandt • Konstantin Löffler • Pao-yu Oei	• DIW Berlin • Berlin Institute of Technology • Berlin Institute of Technology • University of Flensburg

Working Papers

START	ARTICLE	JOURNAL	STATUS	AUTHORS	AFFILIATIONS
2018	Make Sure the Kids are OK: Indirect Effects of Air Pollution on Well-Being	Nature Sustainability	Under Review	• Luis Sarmiento • Julia Rechlitz • Nicole Wagner • Aleksandar Zaklan	• RFF-CMCC • DIW Berlin • University of Bergen • German Ministry for Economic Affairs
2019	Effectiveness, Spillovers, and Well-Being Effects of Driving Restriction Policies	Journal of Public Economics	R&R	• Luis Sarmiento • Nicole Wagner • Aleksandar Zaklan	• RFF-CMCC • University of Bergen • German Ministry for Economic Affairs
2021	The Air Quality Effects of Uber	Journal of Environmental Economics and Management	Under Review	• Luis Sarmiento • Yeong-Jae Kim	• RFF-CMCC • KDI School of Public Management
2021	The Effect of Changing Marginal Cost to Physical Order Dispatch in the Power Sector	Economics of Energy and Environmental Policy	R&R	• Raul Gutierrez-Meave • Luis Sarmiento • Juan Rosellon	• RFF-CMCC • University of Illinois • CIDE Mexico
2022	Air Pollution and Court Decisions: Evidence from Ten Million Penal Cases in India	Environmental and Resource Economics	R&R	• Luis Sarmiento • Adam Nowakowski	• RFF-CMCC • Bocconi University

Underway Research

START	ARTICLE	EXPECTED	AUTHORS	AFFILIATIONS
2023	U.S. Net-Zero Technology Pathways of Carbon Management	Spring 2023	• Luis Sarmiento • Jae Edmons • John Bistline • and others	• Several Institutions
2023	The Equity Impacts of Net Zero scenarios un the United States	Spring 2023	• John Bistline • Chikara Onda • Luis Sarmiento • and others	• Several Institutions
2023	The air pollution consequences of Net Zero scenarios in the United States	Spring 2023	• Dan Loughlin • Luis Sarmiento • Johanness Emmerling • and others	• Several Institutions





Underway Research (Cont.)

START	ARTICLE	EXPECTED	AUTHORS	AFFILIATIONS
2022	Comparing Net Zero pathways across the Atlantic: A model inter-comparison exercise between the Energy Modeling Forum 37 and the European Climate and Energy Modeling Forum	Spring 2023	<ul style="list-style-type: none"> • Luis Sarmiento • Johanness Emmerling • Robert Pizsiker •..... and others 	<ul style="list-style-type: none"> • Several Institutions
2022	The Effect of Air purifiers on children' health, attitudes, and performance: Evidence from an RCT in Milan	Spring 2024	<ul style="list-style-type: none"> • Jacopo Bonan • Luis Sarmiento • Francesco Granella • Stefania Renna 	<ul style="list-style-type: none"> • Politecnico di Milano • RFF-CMCC • RFF-CMCC • Politecnico di Milano
2021	The Unaccounted Consequences of Low Emission Zones: Evidence from Madrid Central	Winter 2022	<ul style="list-style-type: none"> • Luis Sarmiento • Nicole Wagner • Adrian Santoja 	<ul style="list-style-type: none"> • RFF-CMCC • University of Bergen • DIW Berlin
2021	Air Pollution and Domestic Violence	Spring 2023	<ul style="list-style-type: none"> • Luis Sarmiento • Ileri Hernandez 	<ul style="list-style-type: none"> • RFF-CMCC • Bocconi University
2020	Air Quality and School Abenteeism: Evidence from New York City	Spring 2022	<ul style="list-style-type: none"> • Luis Sarmiento • Soheil Shayegh • Evan Altman • Chiara Serra • Simone Ferro 	<ul style="list-style-type: none"> • RFF-CMCC • RFF-CMCC • Emory University • Bocconi University • University of Milan

Softwares and Languages

R (R-Studio)		English	
Quarto		Spanish	
Git		Italian	
GAMS		German	
Julia			
Python			

Latest Presentations

Year	Conference	Presentation	City	Country
2023	ICEE World Congress	The Air Quality Effects of Uber	Cagliari	
2023	IAERE Annual Conference	The Unaccounted Effects of Low Emission Zones: Evidence from Madrid Central	Naples	
2022	EAERE Annual Conference	The Air Quality Effects of Uber	Rimini	
2022	Mannheim Conference on Energy and the Environment	The Unaccounted Effects of Low Emission Zones: Evidence from Madrid Central	Mannheim	
2022	BSE Workshop: The Distributional Consequences of Environmental Policies	The Air Quality Effects of Uber	Berlin	