

# Dr. Luis Sarmiento

Environmental Economist

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Applied economist focusing on causal inference. Current research activities encompass: looking at the effects of air pollution on human well-being, studying the intersection between digitalization and environmental degradation, and analyzing pathways for the decarbonization of the energy sector.

## 📁 Work Experience

Dates	Position	Institution	Country	Activities
Sep.2022 -	<b>Junior Scientist</b>	RFF-CMCC: European Institute on Economics and the Environment		Scientific support to institutional activities. Mentoring of junior scholars. Applied econometrics and the development of agent-based models. Study the relationship between transport, digitalization, and the environment as part of the EU 2D4D project.
Sep.2020 Sep.2022	<b>Postdoc Researcher</b>	RFF-CMCC: European Institute on Economics and the Environment		Study the relationship between the transportation sector, digitalization, and the environment. Applied econometric projects on air pollution, air pollution control policies, and natural disasters. Scientific support to institutional projects.
Apr.2017 Sep.2020	<b>Research Associate</b>	DIW-Berlin: German Institute of Economic Research		Research and publication of scientific articles in the realm of energy and environmental economics. Research projects on the effects of air pollution and air pollution control policies on productivity, health, and wellbeing.
Nov.2019 Aug.2020	<b>Research Associate</b>	Hertie School of Governance		Study the relationship between daylight savings and transit patterns.
Sep.2012 Sep.2015	<b>Business Executive</b>	Banco del Bajío SA		Financial advice to small and medium-sized companies





## 🎓 Education

Dates	Degree	Institution	Country	Dissertation
Apr.2017 Aug.2020	<b>Doctor in Economics (Summa Cum Laude)</b>	Berlin Institute of Technology		An Econometric Analysis of Environmental Phenomena
Sep.2014 Apr.2016	<b>Master of Science in Economics and Management</b>	Humboldt University of Berlin		Electricity Production from Renewable Sources in Mexico: A Time Series Analysis
Aug.2007 Aug.2012	<b>Bachelor of International Business</b>	University of Lasalle Bajío		A Project of Foreign Direct Investment between Mexico and Colombia

## 📖 Research Interests

<b>Applied Econometrics</b>	Use of econometric methods for causal inference
<b>Digitalization and the Environment</b>	Analysis of the inter-dependencies between the transportation sector, digitalization, and the environment
<b>Energy Modeling</b>	Design and Implementation of optimization models to assess public policies for the decarbonization of energy systems
<b>Agent Based Models</b>	Design and implementation of agent-based models to understand households' adoption of green technologies

## A2 Softwares and Languages

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

## Publications

Year	Article	Journal	Coauthors
2022	The Nonlinear Effects of Pollution on Crime: Evidence from Mexico City and New York	Environmental Research - Health	
2021	Air Pollution and the Productivity of High-Skill Labor: Evidence from Court Hearings	Scandinavian Journal of Economics 124: 301-332.	
2021	Mexico and US Power Systems Under Variations in Natural Gas Prices	Energy Policy, 151, 113378	Juan Rosellon, Sauleh Siddiqui, Max Brown, Avraam Charalampos, Anahi Molar, Baltazar Solano
2021	The Role of Energy Storage in the Uptake of Renewable Energy: A Model Comparison Approach	Energy Policy 151, 112159	Sara Giarola, Kathleen Vaillancourt, Max Brown, Anahi Molar, Ivan Garcia Kerdan
2021	The Effects of the 2013 Floods on Germany's Road Freight Traffic	Transportation Research Part D, S.1022774	Julio Fournier
2019	Analysing Scenarios for the Integration of Renewable Energy Sources in the Mexican Energy System	Energies, 12.17, 3270	Thorstan Burandt, Konstantin Löffler, Pao-yu Oei

## Working Papers

Start	Article	Status	Journal	Coauthors
2021	The Air Quality Effects of Uber	Under Review	The Review of Economics and Statistics	Yeong-Jae Kim
2019	Effectiveness, Spillovers, and Well-Being Effects of Driving Restriction Policies	Revise and Resubmit	Journal of Public Economics	Nicole Wägner and Aleksandar Zaklan
2018	Make Sure the Kids are OK: Indirect Effects of Air Pollution on Well-Being	Under Review	Nature Sustainability	Julia Rechliz, Nicole Wägner, and Aleksandar Zaklan
2021	The Effect of Changing Marginal Cost to Physical Order Dispatch in	Working Paper		Raul Gutierrez and Juan Rosellón









## Underway Research

Start	Article	Expected	Coauthors	Institutes
2022	Underlying Beliefs across the Atlantic Looking at heterogenous assumptions in North American and European energy models	Spring 2023	Johannes Emmerling, Leonard Göke, Karlo Hainsch	European Institute on Economics and the Environment, TU Berlin
2022	Studying EMF37 high-electrification scenarios in the European Context.	Spring 2023	Johannes Emmerling, Leonard Göke, Karlo Hainsch	European Institute on Economics and the Environment, TU Berlin

## Underway Research (Cont.)

Start	Article	Expected	Coauthors	Institutes
2022	Studying EMF37 high-electrification scenarios in the European Context.	Spring 2023	Johannes Emmerling, Leonard Göke, Karlo Hainsch	European Institute on Economics and the Environment, TU Berlin
2022	U.S. Net-Zero Technology Pathways of Carbon Management	Winter 2022	John Bistline, Carol Lenox, Nadja Victor, Gokul Iyer, Mathew Binsted, Leonard Göke, and others	European Institute on Economics and the Environment, TU Berlin, USDAM ONNL, UMD, NETL, EPA, MIT, NREL
2022	Air Pollution and Court Decisions: Evidence from Ten Million Penal Cases in India	Spring 2023	Adam Nowakowski	European Institute on Economics and the Environment and Bocconi University
2021	The Unaccounted Consequences of Low Emission Zones: Evidence from Madrid Central	Winter 2022	Adrian Santoja and Nicole Wäger	European Institute on Economics and the Environment, German Institute of Economic Research, and Leibniz Institute for Economic Research
2021	Air Pollution and Domestic Violence	Spring 2023	Ileri Hernandez	European Institute on Economics and the Environment and Bocconi University
2020	Air Quality and School Absenteeism: Evidence from New York City	Spring 2022		European Institute on Economics and the Environment
2020	The Agent Base Model of Technology Adoption ABM-REN	Fall 2023	Severin Reissl and Johannes Emmerling	European Institute on Economics and the Environment

## Latest Presentations

Conference	Presentation	City	Country	Year
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		2022
CMCC Annual Conference	Towards the Debornization of the Transportation Sector	Lecce		2021
EAERE Annual Conference	The Nonlinear Effects of Pollution on Crime: Evidence from Mexico City and New York	Berlin		2020
Verein für Socialpolitik	Make Sure the Kids are OK: Indirect Effects of Air Pollution on Well-Being	Leipzig		2019
EAERE Annual Conference	Air Pollution and the Productivity of High-Skill Labor: Evidence from Court Hearings	Manchester		2019
Seventh Latin-American Meeting of Energy Economics	Analysing Scenarios for the Integration of Renewable Energy Sources in the Mexican Energy System	Buenos Aires		2019