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 -	**Junior Scientist**	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	**Postdoc Researcher**	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	**Research Associate**	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	**Research Associate**	Hertie School of Governance	🇩🇪	Study the relationship between daylight savings and transit patterns.
Sep.2012 Sep.2015	**Business Executive**	Banco del Bajio SA	🇲🇽	Financial advice to small and midium-sized companies

🏛 Education

Dates	Degree	Institution	Country	Dissertation
Apr.2017 Aug.2020	**Doctor in Economics (Summa Cum Laude)**	Berlin Institute of Technology	🇩🇪	An Econometric Analysis of Envvironmental 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 Bajio	🇲🇽	A Project of Foreign Direct Investment between Mexico and Colombia

📖 Research Interests

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

🔤 Softwares and Lenguages

R (R-Studio)	●●●●●	English	●●●●●
Quarto	●●●●●	Spanish	●●●●●
Markdown	●●●●●	Italian	●●●●○
Git	●●●●●	German	●●●○○
GAMS	●●●●○		
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 Sidiqui, 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 Unaccounted Consequences of Low Emission Zones: Evidence from Madrid Central	Working Paper		Adrian Santoja and Nicole Wägner
2022	Air Pollution and Court Decisions: Evidence from Ten Million Penal Cases in India	Working Paper		Adam Nowakowski
2020	The Agent Base Model of Technology Adoption ABM-REN	Working Paper		Severin Reissl and Johanness Emmerling

🧑‍🏫 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 Conferece	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