



LUIS SARMIENTO

Economist

I am an economist focusing on **causal inference and energy modeling**. As an experienced professional, I have developed substantial expertise in applied econometrics, integrated assessment models, and agent-based modeling. My research focuses on critical issues such as the energy transition, climate change, digitalization, environmental justice, and the study of policies to decrease environmental externalities in urban areas.

Contact

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🌐 | [luis-sarmiento-eco](https://luis-sarmiento-eco.com)

Education

● Doctor In Economics

Berlin Institute of Technology
2017-2020 (summa cum laude)
Berlin, Germany

● M.S. Economics & Mng.

Humboldt University of Berlin
2014-2016
Berlin, Germany

● B.S International Business

University of Lasalle Bajío
2007-2012
Leon, Mexico

Software

R (R-Studio)	● ● ● ●
Quarto	● ● ● ●
Git	● ● ● ●
GAMS	● ● ● ○
Julia	● ● ● ○
Python	● ● ○ ○

Experience

● Environmental Economist Euro-Mediterranean Center on Climate Change. Milan, IT. Sep 2022 - Present

- 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.

● Post-Doc Euro-Mediterranean Center on Climate Change. Milan, IT. Sep 2020 - Sep 2022

- Applied econometrics and causal inference.
- scientific support to institutional activities.
- Study the relationship between digitalization and the environment

● Research Associate German Institute of Economic Research (DIW Berlin). Berlin. DE Apr 2017 - Sep 2020

- 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.

● Research Associate Hertie School of Governance. Berlin. DE Nov 2019 - Aug 2020

- Study the relationship between daylight savings and transit patterns.

● Business Executive Banco del Bajío SA, León. MX Sep 2012 - Sep 2015

- Financial advice to small and midium-sized companies

Teaching

- **Environmental Economics and Policy**
Winter 2023 (Upcoming)
● **University of Bologna**
- **Environmental Economics and Policy**
Spring 2023
● **University of Bologna**
- **Applied Econometrics for Energy and Environmental Economics**
Summer (2020)
● **Berlin University of Technology**
- **Applied Econometrics for Energy and Environmental Economics**
Summer (2019)
● **Berlin University of Technology**

Languages

- Spanish ● ● ● ●
- English ● ● ● ●
- Italian ● ● ● ○
- German ● ● ○ ○

Latest Conferences

- **ICEE World Conference**
Cagliari, IT. Spring 2023
- **IAERE Annual Conference**
Napoli, IT. Winter 2023
- **EAERE Annual Conference**
Rimini, IT. Summer 2022
- **Mannheim Conference on Energy & the Environment**
Manheim, DE. Summer 2022
- **Berlin School of Economics Workshop on Environmental Policies and Equity**
Berlin, DE. Spring 2022

References

Massimo Tavoni - Politecnico di Milano
Professor - massimo.tavoni@eiee.org

Christian von Hirshhausen - TU Berlin
Professor - cvh@wip.tu-berlin.de

Juan Rosellon - CIDE Mexico
Professor - juan.rosellon@cide.edu

John Weyant - Stanford University
Professor - weyant@stanford.edu

Publications

- Sarmiento L., Wagner N., and Zaklan A. (2023)
The Air Quality and Well-Being Effects of Low Emission Zones.
Journal of Public Economics 277, 105014
- Sarmiento L. and Nowakowski A. (2023)
Air Pollution and Court Decisions: Evidence from Ten Million Penal Cases in India.
Environmental and Resource Economics 86, 605–644
- Sarmiento, L. (2023)
The Nonlinear Effects of Pollution on Crime: Evidence from Mexico City and New York.
Environmental Research - Health 1(2), p.021001
- Bistline J. et al. (2023)
Equity Implications of Net-Zero Emissions: A Multi-Model Analysis of Energy Expenditures across income classes.
Energy and Climate Change, 100118
- Gutierrez-Meave R. Rosellon J., and Sarmiento L (2023)
Policy Reversals in Transitional Markets: The Effect of Changing Marginal Cost to Physical Order Dispatch.
Economics of Energy and Env. Policy (Accepted)
- Sarmiento, L. (2021)
Air Pollution and the Productivity of High-Skill Labor: Evidence from Court Hearings
Scandinavian Journal of Economics 124, 301-332
- Sarmiento, L., et al. (2021)
Mexico and US Power Systems Under Variations in Natural Gas Prices.
Energy Policy, 151, 113378
- Giarola, S, et al. (2021)
The Role of Energy Storage in the Uptake of Renewable Energy: A Model Comparison Approach.
Energy Policy, 151, 112159
- Gabela, J.G.F. and Sarmiento, L. (2020)
The Effects of the 2013 Floods on Germany's Road Freight Traffic.
Transportation Research Part D, S.1022774
- Sarmiento, L, et al. (2020)
Analysing Scenarios for the Integration of Renewable Energy Sources in the Mexican Energy System.
Energies, 12.17, 3270

Visiting Scholar 2023

● Environmental Economics
Spring 2023
● University of Verona

● Environmental Economics and Policy
Spring 2023
● KDI School of Public Policy

Languages

Spanish ● ● ● ●
English ● ● ● ●
Italian ● ● ● ○
German ● ● ○ ○

Latest Conferences

● ICEE World Conference
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● IAERE Annual Conference
Napoli, IT. Winter 2023

● EAERE Annual Conference
Rimini, IT. Summer 2022

● Mannheim Conference on Energy &
the Environment
Manheim, DE. Summer 2022

● Berlin School of Economics Workshop
on Environmental Policies and Equity
Berlin, DE. Spring 2022

References

Massimo Tavoni - RFF-CMCC:EIEE
Director - massimo.tavoni@eiee.org

Christian von Hirshhausen - TU Berlin
Professor - cvh@wip.tu-berlin.de

Juan Rosellon - CIDE Mexico
Professor - juan.rosellon@cide.edu

John Weyant - Stanford University
Professor - weyant@stanford.edu

Under Review

● Sarmiento L., Emmerling J., Pizacker R., et al.
Comparing Net Zero pathways across the Atlantic: A model inter-comparison exercise between the EMF 37 and ECEMF
Energy and Climate Change

● Sarmiento L., Emmerling J., Pizacker R., et al.
Comparing Net Zero pathways across the Atlantic: A model inter-comparison exercise between the EMF 37 and ECEMF
Energy and Climate Change

● Binsted M. et al.
Carbon Management Technology Pathways for Reaching a US Economy-Wide Net-Zero Emissions Goal.
Energy and Climate Change

● Santoja, Sarmiento, and Wägner
The Unintended Consequences of Low Emission Zones:
Evidence from Madrid Central
AEJ - Economic Policy