



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, causal inference, integrated assessment, energy, 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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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

European Institute on Economics and the Environment. 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

European Institute on Economics and the Environment. 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 Institute of Technology**
- **Applied Econometrics for Energy and Environmental Economics**
Summer (2019)
● **Berlin Institute 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 - sekretariat-evu@diw.de

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 (Accepted)
- Sarmiento L. and Nowakowski A. (2023)
Air Pollution and Court Decisions: Evidence from Ten Million Penal Cases in India
Environmental and Resource Economics (Accepted)
- Sarmiento, L. (2023)
The Nonlinear Effects of Pollution on Crime: Evidence from Mexico City and New York.
Environmental Research - Health 1(2), p.021001
- 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

Under Review

- Sarmiento L., Rechlitz J., Wagner N., and Zaklan A.
Make Sure the Kids Are OK: Indirect Effects of Air Pollution on Well-Being
Under Review
Environment International
- Sarmiento L., & Kim Y.
The Air Quality Effects of Uber
Under Review
Journal of the European Economic Association

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 Institute of Technology**
- **Applied Econometrics for Energy and Environmental Economics**
Summer (2019)
● **Berlin Institute of Technology**

Languages

Spanish	● ● ● ●
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- **IAERE Annual Conference**
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- **EAERE Annual Conference**
Rimini, IT. Summer 2022
- **Mannheim Conference on Energy & the Environment**
Mannheim, 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 (Continuation)

- 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
Under Review
Energy and Climate Change
- Bistline J., Onda C., Emmerling J., Sarmiento L., et al.,
Equity Implications of Net-Zero Emissions: A Multi-Model Analysis of Distributional Effects Across Income Classes
Under Review
Energy and Climate Change