

# Dr. Luis SARMIENTO

## Economist

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I am an environmental and energy economist with a focus on applied econometrics and energy modeling. Current research encompasses examining the effect of air pollution, air pollution control mechanisms, and extreme weather events in several realms of human affairs like labor supply, productivity, health, and well-being. Additionally, I study public policies for the renewable transition of energy systems and the dynamics between digitalization and the environment.

## 📁 PROFESSIONAL EXPERIENCE

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Present September 2020	<b>Post-doctoral Researcher</b> <b>RFF-CMCC : European Institute in Economics and the Environment</b> <a href="#">↗</a> <ul style="list-style-type: none"><li>&gt; Study the relationship between the transportation sector, digitalization, and the environment.</li><li>&gt; Applied econometric projects on air pollution, air pollution control policies, and natural disasters.</li><li>&gt; Scientific support on institutional projects.</li></ul> <p>Microeconometrics   Data Science   Analysis of Public Policies   Agent Base Models</p>
April 2021 April 2017	<b>Research Associate</b> <b>German Institute of Economic Research (DIW, Berlin)</b> <a href="#">↗</a> <ul style="list-style-type: none"><li>&gt; Research and publication of scientific articles in the realm of energy and environmental economics.</li><li>&gt; Research projects on the effects of air pollution and air pollution control policies on productivity, health, and well-being.</li></ul> <p>Microeconometrics   Numerical models   Renewable Transition   Data Science   Analysis of Public Policies</p>
August 2020 November 2019	<b>Research Associate</b> <b>Hertie School of Governance</b> <a href="#">↗</a> <ul style="list-style-type: none"><li>&gt; Study the relationship between day-light savings and transit patterns.</li></ul> <p>Microeconometrics   Data Science   Analysis of Public Policies</p>
September 2012 September 2014	<b>Small Business Executive</b> <b>Banco del Bajío</b> <a href="#">↗</a> <ul style="list-style-type: none"><li>&gt; Financial advice to small and medium-size companies; corporate and business loans, letters of credit, corporate leasing, and financial factoring.</li></ul> <p>Financial Platforms   Client relations   Financial Instruments</p>

## 🎓 EDUCATION

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2017 — 2020	<i>Doctor in Economics (Summa Cum Laude)</i> <b>Berlin Institute of Technology</b> <a href="#">↗</a> <p><i>Dissertation</i> : An econometric analysis of environmental phenomena <i>Committee</i> :</p> <ul style="list-style-type: none"><li>&gt; Prof. Dr. Axel Werwatz (chair)</li><li>&gt; Prof. Dr. Christian Von Hirschhausen</li><li>&gt; Prof. Dr. Christian Traxler</li></ul>
2014 — 2016	<i>MSc. in Economics and Management</i> <b>Humboldt University of Berlin</b> <a href="#">↗</a> <p><i>Dissertation</i> : Electricity production from renewable sources in Mexico : A time-series analysis <i>Supervisor</i> : Professor Dr. Franz Hubert</p>
2007 — 2012	<i>Bachelor in International Business</i> <b>University of Lasalle Bajío</b> <a href="#">↗</a> <p><i>Dissertation</i> : A project of foreign direct investment between Mexico and Colombia <i>Supervisor</i> : Professor Msc. Luis Villegas</p>

## RESEARCH INTERESTS

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- Environmental Economics** Econometric analyses on the effect of environmental externalities on different aspect of human affairs like health, productivity, and well-being
- Energy Economics** Design and implementation of optimization models assess public policies for the decarbonization of energy systems
- Digitalization and the Environment** Analysis of the Inter-dependencies between the transportation sector, digitalization, and the environment

## Journals Referee

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- > Economics of Energy and Environmental Policy (EEEP)
- > Energy Policy (EP)
- > Energy Economics (EE)
- > The Review of Economic Studies (ReStud)
- > Journal of the European Economic Association (JEEA)

## Teaching Experience

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- > Teaching assistant of applied econometrics : Infratrain 2019, Berlin Institute of Technology 2019
- > Teaching assistant in instrumental variables design : Infratrain 2018, Berlin Institute of Technology 2018

## Conferences and Presentations

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- > CMCC Annual Conference : Lecce, Italy 2021
- > EAERE 2020 Annual Conference : Berlin, Germany 2020
- > Verein für socialpolitik, annual conference : Leipzig, Germany 2019
- > EAERE 2019 Annual Conference : Manchester, U.K. 2019
- > 7th Latin American Energy Economics Meeting : Buenos Aires, Argentina 2019
- > 6th World Congress of environmental and resource economists : Göteborg, Sweden 2018
- > The annual meeting of the Latin American and Caribbean Economic Association : Guayaquil, Ecuador 2018
- > Essen Health Conference 2017 : Essen, Germany 2017
- > 7th Mannheim Energy Conference : Mannheim, Germany 2017
- > 15th IAEE European Conference : Vienna, Austria 2017

## LANGUAGES

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


## SOFTWARE

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R ● ● ● ● ●  
Latex ● ● ● ● ●  
GAMS ● ● ● ● ○  
WordPress ● ● ● ● ○  
STATA ● ● ● ● ○  
Python ● ● ● ○ ○

## ACCEPTED MANUSCRIPTS

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**Waiting for my Sentence : Air Pollution and the Productivity of Court Rulings** 

*Luis Sarmiento*

Scandinavian Journal of Economics, 2021, In print


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**Mexico and U.S. Power Systems Under Variations in Natural Gas Prices** 

*With Juan Rosellón , Sauleh Sidiqi , Max Brown , Avraam Charalampos , Anahi Molar , Baltazar Solano*

Energy Policy, 2021, 151, 113378

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**The role of energy storage in the uptake of renewable energy : a model comparison approach** 

*With Sara Giarola , Kathleen Vaillancourt , Max Brown , Anahi Molar , Ivan Garcia Kerdan*

Energy Policy, 2021, 151, 112159


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The effects of the 2013 floods on Germany's road freight traffic 

*With Julio Fournier*

Transportation Research Part D : Transport and Environment, 2021, S. 102274

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Analyzing Scenarios for the Integration of Renewable Energy Sources in the Mexican Energy System 

*With Thorsten Burandt , Konstantin Löffler , and Pao-yu Oei*

Energies 12.17 (2019) : 3270

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## WORKING PAPERS

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The air quality effects of Uber 

*With*

RFF Working Paper (21-34)

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Effectiveness, Spillovers, and Well-Being Effects of Driving Restriction Policies 

*With Aleksandar Zaklan , Nicole Waegner*

RFF Working Paper (21-13)

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Make Sure the Kids are OK : Indirect Effects of Ground-Level Ozone on Well-Being 

*With Aleksandar Zaklan , Nicole Waegner , Julia Rechliz*

DIW Discussion Paper Series No 1877 , 2020


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The Effect of Extreme Temperatures on Mortality : Heterogeneous Effects Across Different Labor Groups 

*With Thomas Longden*

Crawford School of Public Policy Working Paper No. 2009

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The effect of changing marginal-cost to physical-order dispatch in the power sector 

*With Juan Rosellón and Raúl Gutierrez*

RFF Working Paper (21-19)

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I am Innocent : The Effect of Urban Pollution on Crime Behavior 

*Luis Sarmiento*

DIW Discussion Paper Series No 1879 , 2020

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## ONGOING PROJECTS

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Air quality alerts and school absences : Evidence from New York City

*Luis Sarmiento*

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The Impact of Electricity Transmission Infrastructure on Households' Well-Being 

*With Aleksandar Zaklan , Alexander Zerrah , and Alexander Roth*

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Google It, Broadband Infrastructure and Economic Activity — the Case of Senegal

*With Maximilian Schaefer*

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Kurzarbeit and the 2013 European floods :

How effective are short-time working allowances in avoiding unemployment ?

*With Julio Fournier*



05-05-2022