

# Ignacio Sarmiento Barbieri

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## ACADEMIC EMPLOYMENT

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Department of Economics, Universidad de los Andes, Colombia  
Assistant Professor 2020 -  
National Center for Supercomputing Applications (NCSA-UIUC)  
Postdoctoral Research Associate in Data Science in Applied Microeconomics 2018 - 2020

## EDUCATION

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University of Illinois at Urbana-Champaign (UIUC), USA  
PhD. in Economics 2018  
Ms. in Statistics 2017  
Ms. in Economics 2014  
National University of Tucumán - Argentina  
B.A. in Economics (with honors) 2008

## RESEARCH INTERESTS

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Primary: Public, Urban, and Real Estate Economics  
Secondary: Applied Econometrics, Big Data, and Machine Learning

## PUBLICATIONS

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COVID-19 spread, detection, and dynamics in Bogotá, Colombia  
*Nature Communications* volume 12,4726, 2021, *CEDE WP No. 18-2021*, *RedNIE WP No. 78*, *Nota de Política No. 40*, with Rachid Laajaj, Camilo de los Rios, Danilo Aristizabal, Eduardo Behrentz, Raquel Bernal, Giancarlo Buitrago, Zulma Cucunubá, Fernando de la Hoz, Gabriela Delgado, Alejandro Gaviria, Luis Jorge Hernández, Leonardo León, Elkin Osorio, Andrea Ramírez Varela, Silvia Restrepo, Rodrigo Rodríguez, Martha Vives, Duncan Webb

Factors Associated With SARS-CoV-2 Infection in Bogotá, Colombia: Results From a Large Epidemiological Surveillance Study  
*The Lancet Regional Health - Americas*, 2021, 100048, with Andrea Ramirez Varela, Luis Jorge Hernandez Florez, Guillermo Tamayo-Cabeza, Sandra Contreras-Arrieta, Silvia Restrepo Restrepo, Rachid Laajaj, Giancarlo Buitrago Gutierrez, Yenny Paola Rueda Guevara, Yulдор Caballero-Díaz, Martha Vives Florez, Elkin Osorio, Daniela Rodriguez Sanchez, Leonardo Leon Nuñez, Raquel Bernal, Sofia Rios Oliveros, Leonardo Salas Zapata, Marcela Guevara-Suarez, Alejandro Gaviria Uribe, Eduardo Behrentz

Housing Discrimination and the Toxics Exposure Gap in the United States: Evidence from the Rental Market  
*Review of Economics and Statistics*, 1-37, 2020, *NBER WP No. 26805*, with Peter Christensen and Chris Timmins

Can we stay one step ahead of cheaters? A field experiment in proctoring online open book exams  
*Journal of Behavioral and Experimental Economics* 90,2021, 101653, with Jose Vazquez and Eric Chiang

Emotional Cues and Crime: Spatial and Temporal Evidence from Brazilian Soccer Games  
*Economic Inquiry*, Vol. 59, No. 1, January 2021, 375–395, with Qi Ge and Rodrigo Schneider

Unlocking Amenities: Complementarities in Public Good Consumption  
*Journal of Public Economics* 182 (2020), *NBER WP No. 25107*, with David Albouy and Peter Christensen

Do More Eyes on the Street Reduce Crime? Evidence from Chicago's Safe Passage  
*Journal of Urban Economics* 110 (2019), with Dan McMillen and Ruchi Singh

The South American input-output table: Key assumptions and methodological considerations  
 CEPAL, NU. ECLAC. 2016. Associate Researcher for Argentina, Ecuador and Paraguay

## TEACHING

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*Full Instructor, Department of Economics, University of Los Andes*

<i>Big Data and Machine Learning for Applied Economics - Econ 4676, Graduate</i>	2020-
<i>Doing Economics I - Econ 2205, Undergraduate</i>	2021-
<i>Thesis Seminar - Econ 4600, Graduate</i>	2021

*TA for Microeconomic Principles (ECON 102), Department of Economics, UIUC*

<i>Online Course</i>	2014-2018
<i>Face to Face Course</i>	2013

*National University of Salta, Argentina*

- *Full Instructor, Masters in Development Economics*  
*Microeconomics, Graduate* 2021
- *Head TA, Department of Economics*  
*Intermediate Microeconomics* 2009-2012  
*Labor Economics* 2009-2012  
*Development Economics* 2009-2012  
*Mathematical Economics* 2009-2012

*Undergraduate TA Department of Economics, National University of Tucumán, Argentina*

<i>Price Theory I &amp; II</i>	2006-2009
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*Workshops:*

*Big Data and Machine Learning for Real Estate, Continuing Education, University of Los Andes*  
 2021  
*Spatial Econometrics, 9th Midwest Graduate Student Summit in Applied Economics, AERUS 2016*  
*Labor Market, Poverty and Inequality: An Application of the Permanent Household Survey, UN-*  
*STA, Tucumán, Argentina* 2008-2010

## FELLOWSHIPS AND AWARDS

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*Oustanding 2019-2020 SPIN Mentor, NCSA-UIUC, 2020; Oustanding Summer 2019 SPIN Mentor, NCSA-UIUC , 2019; Doctoral Session Travel Grant, AREUEA , 2017; Outstanding Contribution in Reviewing, RSUE , 2017; Paul W. Boltz Fellowship, Department of Economics, UIUC , 2017; Conference travel award, Department of Economics, UIUC , 2016, 2017; Econometrics team captain for the VSAE Econometric Games, Department of Economics, UIUC, 2016, 2017, 2018; Summer Fellowship, Department of Economics, UIUC , 2015; Departmental Fellowship, Department of Economics, UIUC , 2012-2013; Fulbright Scholarship, United States Department of State , 2012-2014; Best GPA of the 15th cohort Ms. in Economics, Department of Economics, UNLP, Argentina , 2012; Departmental Fellowship, UNLP, Argentina , 2011-2012; First CEDLAS Contest, essays on distributional, labor and social issues in Latin America (runner up), UNLP, Argentina , 2009; Research Fellowship, Research Council, UNT, Argentina, 2009-2010; Second Best GPA of the 2008 cohort in Economics, UNT, Argentina , 2008; Third Best GPA of the 2008 cohort of the three majors: Economics, Business, and Accounting, UNT, Argentina, 2008.*

## SELECTED CONFERENCE PRESENTATIONS

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AREUEA, International Conference (discussant), 2021, RedNIE, Buenos Aires, Argentina, 2021, Department of Economics, University of Andes, Bogotá, Colombia, 2020, Università Cattolica del Sacro Cuore, Milano, Italy, 2020, FEN-Department of Economics, University of Chile, Santiago, Chile, 2020, Department of Economics, University of Los Andes, Santiago, Chile, 2020, University Adolfo Ibañez, Viña del Mar, Chile, 2020, pERE-ACES-UIUC, Urbana-Champaign, IL, 2019, San Pablo University and National University of Tucumán, Tucumán, Argentina, 2019, 13th Meeting of the Urban Economics Association, New York City, NY, 2018. 86th International Atlantic Economic Conference, New York City, NY, 2018. AEA CTREE Conference 2018, TX, May 2018. 82nd Annual Meeting of the Midwest Economics Association (MEA), Evanston, IL, 2018. American Real Estate and Urban Economics Association (AREUEA) Doctoral Session, Philadelphia, PA, 2018.

## PROFESSIONAL ACTIVITIES

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**Referee:** Canadian Journal of Economics, RSUE, Land Economics, PNUD, Economica, JEEM, IREE, Real Estate Economics

**Organizing Committees:** Econometrics Reading Group, UIUC, 2015-2016; 26th Annual Meeting of the Midwest Econometrics Group, UIUC, October, 2016

## SOFTWARE

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### R packages:

RATest: A collection of randomization tests 2017  
*with Mauricio Olivares-Gonzalez.* Available at <https://CRAN.R-project.org/package=RATest>  
ioanalysis 2019  
*with John Wade.* Available at <https://CRAN.R-project.org/package=ioanalysis>

**Skills:** R, Stata (advanced), Unix System Administration, SQL, GIS, HTML (intermediate), Matlab, PHP, C++, Fortran (basic)

## PERSONAL INFORMATION

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**Citizenship** Argentinean & Italian

**Languages** Spanish (native), English (fluent), Italian (basic), Classic Latin and Greek (basic)