

CARLOS CINELLI

PHD CANDIDATE, DEPARTMENT OF STATISTICS, UNIVERSITY OF CALIFORNIA, LOS ANGELES
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EDUCATION

2016-2021 *PhD, Statistics*, University of California, Los Angeles (UCLA)
2010-2012 *MSC, Economics*, University of Brasilia (UnB)

EMPLOYMENT

2014-2016 *Economist*, Central Bank of Brazil, Systemic Risk Division
2012-2014 *Economist*, Central Bank of Brazil, Foreign Investment Division

PEER REVIEWED PUBLICATIONS

- 2021 10. **Carlos Cinelli** and Judea Pearl. “Generalizing Experimental Results by Leveraging Knowledge of Mechanisms.” *European Journal of Epidemiology*, 2021.
- 2021 9. Chi Zhang, **Carlos Cinelli**, Bryant Chen and Judea Pearl. “Exploiting Equality Constraints in Causal Inference.” *International Conference on Artificial Intelligence and Statistics (AISTATS)*, 2021.
- 2020 8. **Carlos Cinelli** and Chad Hazlett. “Making Sense of Sensitivity: Extending Omitted Variable Bias.” *Journal of the Royal Statistical Society, Series B (Statistical Methodology)*, 2020.
- 2020 7. Daniel Kumor, **Carlos Cinelli**, and Elias Bareinboim. “Efficient Identification in Linear Structural Causal Models with Auxiliary Cutsets.” *International Conference of Machine Learning (ICML)*, 2020.
- 2019 6. **Carlos Cinelli**, D. Kumor, B. Chen, J. Pearl and E. Bareinboim. “Sensitivity Analysis of Linear Structural Causal Models.” *International Conference of Machine Learning (ICML)*, 2019.
- 2018 5. **Carlos Cinelli** and Judea Pearl. “On the utility of causal diagrams in modeling attrition: a practical example.” *Epidemiology*, 29, e50-e51, 2018.

PRE-PHD PUBLICATIONS

- 2018 4. **Carlos Cinelli** and Rogerio Arthmar. “The debating tradition in Britain and the new political economy: William Thompson and John Stuart Mill at the London Co-operative Society in 1825.” *Nova Economia*, v.28 (2), p.609-636, 2018.
- 2013 3. Rogerio Arthmar and **Carlos Cinelli** (in portuguese). “The classical economics between laissez-faire and socialism.” *Economia*, v. 14, p. 227-252, 2013.

- 2011 2. **Carlos Cinelli** (in portuguese). “Voluntary transfers and municipal corruption in Brazil: preliminary evidence from the irregular accounts registry of the Federal Court of Accounts.” *Revista Economia e Tecnologia*, v. 7, p. 89-97, 2011.
- 2010 1. **Carlos Cinelli** and Rogerio Arthmar (in portuguese). “When the classical liberal and the socialist confront each other: Bastiat, Proudhon and capital rent.” *Nova Economia*, v. 20, p. 509-541, 2010.

PRE-PRINTS & MANUSCRIPTS UNDER REVIEW

Carlos Cinelli, Jeremy Ferwerda and Chad Hazlett. “sensemakr: Sensitivity Analysis Tools for OLS in R and Stata.” *Submitted*.

Carlos Cinelli, Andrew Forney and Judea Pearl. “A Crash Course in Good and Bad Controls.” *Submitted*.

Carlos Cinelli, N. LaPierre, B. Hill, S. Sankararaman and E. Eskin. “Robust Mendelian randomization in the presence of residual population stratification, batch effects and horizontal pleiotropy.” *Submitted*.

Carlos Cinelli and Chad Hazlett. “An Omitted Variable Bias Framework for Sensitivity Analysis of Instrumental Variables.”

AWARDS

- 2020 UCLA Dissertation Year Fellowship (DYF) (\approx \$37,000)

SOFTWARE

WEB APPS

[Regression sensitivity analysis](#): web app with suite of sensitivity analysis tools for OLS.

STATA MODULES

[sensemakr](#): Sensitivity Analysis Tools for OLS

R PACKAGES

[sensemakr](#): Sensitivity Analysis Tools for OLS

[mrsensemakr](#): Sensitivity Analysis Tools Mendelian Randomization

[generalizing](#): Generalizing Experimental Results By Leveraging Knowledge of Mechanisms

[NetworkRiskMeasures](#): risk measures for (financial) networks

[benford.analysis](#): Benford’s law for data validation and forensic analytics

[sValues](#): measures of sturdiness of regression coefficients

CONFERENCES, SEMINARS & INVITED TALKS

2020	Ecole Polytechnique, France, Online
2020	Healthdata Bootcamp, Online
2020	Causal Data Science Meeting (CDSM 2020), Online
2020	Annual Meeting of the American Society of Human Genetics (ASHG 2020), Online
2020	Joint Statistical Meetings (JSM 2020), Online
2020	Annual Meeting of the Society for Political Methodology (PolMeth XXXVII), Online
2020	International Conference on Machine Learning (ICML 2020), Online
2020	useR! 2020, Online
2020	American Causal Inference Conference (ACIC 2020), Austin, Texas <i>[Postponed due to COVID-19]</i>
2019	Innovative Methods with Big Data and Artificial Intelligence (IM DATA 2019), Pasadena, California
2019	Southern California Methods Conference (SoCal 2019), Riverside, California
2019	University of Southern California, Los Angeles, California
2019	Joint Statistical Meetings (JSM 2019), Denver, Colorado
2019	International Conference of Machine Learning (ICML 2019), Long Beach, California
2019	RAND Corporation, Center for Causal Inference Seminar, Santa Monica, California
2019	University of São Paulo (USP), Statistics Seminar, São Paulo, Brazil
2019	Inspier, Data Science Seminar, São Paulo, Brazil
2018	Joint Statistical Meetings (JSM 2018), Vancouver, British Columbia, Canada
2018	Annual Meeting of the Society for Political Methodology (PolMeth XXXV), BYU, Provo, Utah
2017	BITSS Annual Meeting, Berkeley, California
2017	Causal Inference from Neuroscience to Computer Science, UCLA, Los Angeles, California
2017	Joint Statistical Meetings (JSM 2017), Baltimore, Maryland
2016	useR! 2016, Stanford, California
2016	University of Brasilia (UnB), Statistics Seminar, Brasília, Brazil
2015	Model Development, Validation and Model Risk Management, Santiago, Chile
2015	useR! 2015, Aalborg, Denmark
2015	Workshop of Systemic Risk and Financial Networks, IPAM/UCLA, Los Angeles, California
2014	Catholic University of Brasilia (UCB), Economics Seminar, Brasília, Brazil
2014	useR! 2014, Los Angeles, California
2013	26th Annual Conference of the History of Economic Thought Society, Perth, Australia
2012	XL National Meeting of Economics, Porto de Galinhas, Brazil
2012	IV International Conference of Economic History, São Paulo, Brazil
2012	XVII National Meeting of Political Economy, Rio de Janeiro, Brazil
2011	XVII Brazilian Symposium on Water Resources, Maceió, Brazil
2011	II Meeting of Economics of Espirito Santo, Vitória, Brazil
2010	XVII National Meeting of Political Economy, São Luís, Brazil
2009	XXXVII National Meeting of Economics, Foz do Iguaçu, Brazil

ACADEMIC SERVICE

MANUSCRIPT REFEREE: ICML, Neurips, Political Analysis, Journal of Causal Inference, Epidemiology, European Journal of Epidemiology, PCORI, Annals of Operations Research, Nova Economia.

TEACHING EXPERIENCE

2016-2020 UNIVERSITY OF CALIFORNIA, LOS ANGELES

STATS 256 — Causality (Graduate) / Special Reader

STATS 100A — Introduction to Probability Theory (Undergrad Upper Division) / TA

STATS 10 — Introduction to Statistical Reasoning (Undergrad Lower Division) / Reader

2012-2016 UNIVERSITY OF THE CENTRAL BANK OF BRAZIL

Statistics and R programming / Full Course Development and Professor

2015-2016 BRAZILIAN INSTITUTE OF RESEARCH AND DATA ANALYSIS

Introduction to programming with R / Full Course Development and Professor

OTHER TECHNICAL WORK

2012-2016 Software for the Central Bank of Brazil: statistical modeling for foreign investment surveys, house market prediction, contagion, stress tests and systemic risk analysis.

2015 Financial Stability Report, Contagion on the Real Sector and Systemic Risk Analysis

2015 Census of Foreign Capital in Brazil

2014 Census of Foreign Capital in Brazil

OTHER TRAINING

2013 Applied Bayesian Econometrics for Central Bankers, Bank of England, CCBS, London

2012 Balance of Payments and International Investment Statistics, CEMLA, Mexico City