

CARLOS CINELLI

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EMPLOYMENT

UNIVERSITY OF WASHINGTON, SEATTLE

- 2023- *Director of Consulting*, Center for Statistics and the Social Sciences
- 2023- *Affiliate Faculty*, eScience Institute
- 2021- *Affiliate Faculty*, Center for Statistics and the Social Sciences
- 2021- *Assistant Professor*, Department of Statistics

CENTRAL BANK OF BRAZIL

- 2014-2016 *Economist*, Systemic Risk Division
- 2012-2014 *Economist*, Foreign Investment Division

EDUCATION

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

PEER REVIEWED PUBLICATIONS

- 2022+ 13. **Carlos Cinelli**, Andrew Forney and Judea Pearl. “A Crash Course in Good and Bad Controls.” *Sociological Methods and Research*, 2022+.
- 2022 12. Lang Liu, **Carlos Cinelli**, and Zaid Harchaoui. “Orthogonal Statistical Learning with Self-Concordant Loss.” *Annual Conference on Learning Theory (COLT)*, 2022.
- 2022 11. **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.” *Nature Communications*, 2022.
- 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

Nicholas Irons, **Carlos Cinelli**. “Causally Sound Priors for Binary Experiments.” *Submitted*.

Victor Chernozhukov, **Carlos Cinelli**, Whitney Newey, Amit Sharma, and Vasilis Syrgkanis. “Omitted Variable Bias in Machine Learned Causal Models.” *Submitted*.

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

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

GRANTS & AWARDS

- 2021-2024 Sloan Foundation, Interactive Causal Learning Conference. Role: co-PI, with Michael Ryall and Kevin Bryan. Amount: \$249,100.
- 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 (stata)

PYTHON PACKAGES

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

R PACKAGES

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

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

[dml.sensemakr](#): Sensitivity Analysis tools for Causal Machine Learning

[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

- 2023 McMaster University, Centre for social research innovation, Spark Talk, Online
- 2023 American Political Science Association Annual Meeting (APSA 2023), Los Angeles, California
- 2023 RAND Corporation, Center for Causal Inference Symposium, Online
- 2023 Joint Statistical Meetings (JSM 2023), Toronto, Canada
- 2023 New Researchers Conference (NRC 2023) Toronto, Canada
- 2023 European Meeting of Statisticians (EMS 2023), Warsaw, Poland
- 2023 Western North American Region of The Int. Biometric Society (WNAR 2023), Anchorage, Alaska
- 2023 Causality in Practice, Institute Pascal, Saclay, France
- 2023 Aarhus University, Centre of Integrative Business Psychology, Online
- 2023 American Causal Inference Conference (ACIC 2023), Austin, Texas
- 2023 AirBnB, Data Science Seminar, Online
- 2023 University of Washington, Stat. and ML Approaches for the Social Sciences, Online
- 2022 Int. Conference on Computational and Methodological Statistics (CMStatistics 2022), Online
- 2022 Stanford, Stanford Political Methodology Workshop, Palo Alto, California
- 2022 Causal Data Science Meeting (CDSM 2022), Online
- 2022 University of Jyvoaskyla, Statistics Seminar, Online
- 2022 Iowa State University, Department of Economics Seminar, Ames, Iowa
- 2022 ETH Zurich, Online Seminar in Economics and Data Science, Online
- 2022 Joint Statistical Meetings (JSM 2022), Washington D.C
- 2022 Federal University of Pernambuco (UFPE), Seminar at Lab. Ciência Política Comp. e Exp., Online
- 2022 Annual Meeting of the Society for Political Methodology (PolMeth XXXIX), Online
- 2022 NuBank, Causal Inference Meetup, Online

2022 University of Bristol, Integrative Epidemiology Unit, Online
 2022 American Causal Inference Conference (ACIC 2022), Berkeley, California
 2022 International Workshop on Interactive Causal Learning (ICL 2022), Washington D.C.
 2022 MIT, Department of Economics, Invited Lecture, Online
 2022 University of Washington, Department of Economics, Econometrics Seminar, Online
 2021 University of Washington, Department of Biostatistics Seminar, Online
 2021 Carnegie Mellon University, Machine Learning (Duolingo) Seminar, Online
 2021 Causal Data Science Meeting (CDSM 2021), Online
 2021 London School of Economics, Department of Methodology Seminar, Online
 2021 University of Washington, CSSS Seminar, Seattle, Washington
 2021 Online Causal Inference Seminar (OCIS), Online
 2021 Pacific Causal Inference Conference 2021, Online
 2021 International Conference on Knowledge Discovery & Data Mining (KDD 2021), Online
 2021 Joint Statistical Meetings (JSM 2021), Online
 2021 European Causal Inference Meeting (EuroCIM 2021), Online
 2021 Federal University of Pelotas (UFPEl), Economics Seminar, Online
 2021 Annual Meeting of the Society for Epidemiologic Research (SER 2021), Online
 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 [*Postponed due to COVID-19*]
 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 Insper, 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 Espírito 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

EDITORIAL BOARD

2021- *Associate Editor*, Journal of Causal Inference

MANUSCRIPT REFEREE

JRSS-B, JASA, Biometrika, Statistical Science, International Journal of Biostatistics, Journal of Applied Econometrics, Econometrica, Econometric Reviews, Journal of Political Economy, Journal of Causal Inference, ICML, Neurips, AAAI, AISTATS, CLear, Nature Climate Change, Science Advances, Political Analysis, Collabra: Psychology, Epidemiology, European Journal of Epidemiology, International Journal of Epidemiology, American Journal of Epidemiology, PCORI, Annals of Operations Research, Nova Economia, Cambridge University Press.

CONFERENCES, SEMINARS & WORKSHOPS

2023 *Co-Chair*, Interactive Causal Learning Conference, Boca Raton, Florida
 2022 *Co-Chair*, Interactive Causal Learning Conference, Washington D.C.

TEACHING EXPERIENCE

2021- UNIVERSITY OF WASHINGTON, SEATTLE

STATS 504 — Applied Regression (Graduate)
 STAT 564 — Bayesian Statistics for the Social Sciences (Graduate)
 STATS 591 — The Structural and Counterfactual Theory of Causation (Graduate)
 STAT 396 — Finite Markov Chains and Monte-Carlo Methods (Undergraduate Upper Division)

2016-2020 UNIVERSITY OF CALIFORNIA, LOS ANGELES

STATS 256 — Causality (Graduate) / Special Reader
 STATS 100A — Introduction to Probability Theory (Undergraduate Upper Division) / TA
 STATS 10 — Introduction to Statistical Reasoning (Undergraduate 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

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