

# ROCÍO TITIUNIK – CURRICULUM VITÆ

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## Contact Information

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## Academic Positions

Princeton University.

Professor, Department of Politics, 2019–present.

University of Michigan.

James Orin Murfin Professor, Department of Political Science, 2018–2019.

James Orin Murfin Associate Professor, Department of Political Science, 2016–2018.

Assistant Professor, Department of Political Science, 2010–2016.

Affiliated Faculty, Michigan Institute for Data Science (MIDAS), 2018–2019.

Research Professor, Center for Political Studies, Institute for Social Research, 2018–2019.

Research Associate Professor, Center for Political Studies, Institute for Social Research, 2016–2018.

Faculty Associate, Center for Political Studies, Institute for Social Research, 2009–2016.

## Editorial Positions

Associate Editor.

*Science*, Board of Reviewing Editors, 2019–present.

*Science Advances*, 2019–present.

*Political Science Research and Methods*, 2018–present.

*American Journal of Political Science*, 2018–2019.

Editorial Board Member.

*Journal of Politics*, 2019–present.

*Political Analysis*, 2016–present.

*American Journal of Political Science*, 2016–2018.

## Education

Postdoctoral Fellow, Department of Political Science, University of Michigan. 2009–2010.

Ph.D. in Agricultural and Resource Economics, UC–Berkeley. 2004–2009.

M.S. in Agricultural and Resource Economics, UC–Berkeley. 2004–2006.

Licentiate in Economics, Universidad de Buenos Aires, Argentina. 1997–2001.

## Monographs

- A Practical Introduction to Regression Discontinuity Designs: Foundations, with Matias Cattaneo and Nicolas Idrobo.  
Cambridge Elements: Quantitative and Computational Methods for Social Science, Cambridge University Press, to appear.
- A Practical Introduction to Regression Discontinuity Designs: Extensions, with Matias Cattaneo and Nicolas Idrobo.  
Cambridge Elements: Quantitative and Computational Methods for Social Science, Cambridge University Press, in preparation.

## Journal Publications

- “Regression Discontinuity Designs Using Covariates”, with Sebastian Calonico, Matias Cattaneo and Max Farrell.  
*Review of Economics and Statistics*, forthcoming.
- “Geographic Natural Experiments with Interference: The Effect of All-Mail Voting on Turnout in Colorado”, with Luke Keele.  
*CESifo Economic Studies*, 64(2): 127-149, 2018.
- “Legislative Behavior Absent Reelection Incentives: Findings from a Natural Experiment in the Arkansas Senate”, with Andrew Feher.  
*Journal of the Royal Statistical Society: Series A*, 181(2): 351-378, 2018.
- “Differential Registration Bias in Voter File Data: A Sensitivity Analysis Approach”, with Brendan Nyhan and Christopher Skovron.  
*American Journal of Political Science*, 61(3): 744-760, 2017.
- “Comparing Inference Approaches for RD Designs: A Reexamination of the Effect of Head Start on Child Mortality”, with Matias Cattaneo and Gonzalo Vazquez-Bare.  
*Journal of Policy Analysis and Management* 36(3): 643-681, 2017.
- “The Incumbency Curse: Weak Parties, Term Limits, and Unfulfilled Accountability”, with Marko Klašnja.  
*American Political Science Review* 111(1): 129-148, 2017.
- “Interpreting Regression Discontinuity Designs with Multiple Cutoffs”, with Matias Cattaneo, Luke Keele and Gonzalo Vazquez-Bare.  
*Journal of Politics* 78(4): 1229-1248, 2016.
- “Cause or Effect? Turnout in Hispanic Majority-Minority Districts”, with John Henderson and Jasjeet Sekhon.  
*Political Analysis* 24(3): 404-412, 2016.
- “Drawing Your Senator From a Jar: Term Length and Legislative Behavior”.  
*Political Science Research and Methods* 4(2): 293-316, 2016.
- “Natural Experiments Based on Geography”, with Luke Keele.  
*Political Science Research and Methods* 4(1): 65-95, 2016.  
Reprinted in Advances in Political Methodology, R. Franzese Jr. (ed.), Edward Elgar Publishing, 2017.
- “Optimal Data-Driven Regression Discontinuity Plots”, with Sebastian Calonico and Matias Cattaneo.  
*Journal of the American Statistical Association* 110(512): 1753-1769, 2015.
- “Using Regression Discontinuity to Uncover the Personal Incumbency Advantage”, with Robert Erikson.  
*Quarterly Journal of Political Science* 10(1): 101-119, 2015.
- “Randomization Inference in the Regression Discontinuity Design: An Application to Party Advantages in the U.S. Senate”, with Matias Cattaneo and Brigham Frandsen.  
*Journal of Causal Inference* 3(1): 1-24, 2015.

- “Geographic Boundaries as Regression Discontinuities”, with Luke Keele.  
*Political Analysis* 23(1): 127-155, 2015.
- “Enhancing a Geographic Regression Discontinuity Design Through Matching to Estimate the Effect of Ballot Initiatives on Voter Turnout”, with Luke Keele and Jose Zubizarreta.  
*Journal of the Royal Statistical Society: Series A* 178(1): 223-239, 2015.  
 Reprinted in *Advances in Political Methodology*, R. Franzese Jr. (ed.), Edward Elgar Publishing, 2017.
- “Robust Nonparametric Confidence Intervals for Regression-Discontinuity Designs”, with Sebastian Calonico and Matias Cattaneo.  
*Econometrica* 82(6): 2295-2326, 2014.
- “When Natural Experiments Are Neither Natural Nor Experiments”, with Jasjeet Sekhon.  
*American Political Science Review* 106(1): 35-57, 2012.  
 Reprinted in *Advances in Political Methodology*, R. Franzese Jr. (ed.), Edward Elgar Publishing, 2017.
- “Housing, Health and Happiness”, with Matias Cattaneo, Sebastian Galiani, Paul Gertler and Sebastian Martinez.  
*American Economic Journal: Economic Policy* 1(1): 75-105, 2009.

## Book Chapters and Other Publications

- “The Regression Discontinuity Design”, with Matias Cattaneo and Gonzalo Vazquez-Bare. Chapter in preparation for *Handbook of Research Methods in Political Science and International Relations*, L. Curini and R. J. Franzese, eds., Sage Publications.
- “An Overview of Geographically Discontinuous Treatment Assignments With an Application to Children’s Health Insurance”, with Luke Keele, Scott Lorch, Molly Passarella, and Dylan Small.  
*Regression Discontinuity Designs: Theory and Applications* (Advances in Econometrics, Volume 38), M. D. Cattaneo and J. C. Escanciano (ed.), Emerald Publishing Limited, pp. 147-194, 2017.
- “On Interpreting the Regression Discontinuity Design as a Local Experiment”, with Jasjeet Sekhon.  
*Regression Discontinuity Designs: Theory and Applications* (Advances in Econometrics, Volume 38), M. D. Cattaneo and J. C. Escanciano (ed.), Emerald Publishing Limited, pp. 1-28, 2017.
- “Understanding Regression Discontinuity Designs as Observational Studies”, with Jasjeet Sekhon.  
*Observational Studies* 2: 174-182, 2016.
- “Can Big Data Solve the Fundamental Problem of Causal Inference?”.  
*PS: Political Science & Politics* 48(1): 75-79, 2015.
- “Review of *Field Experiments: Design, Analysis and Interpretation*, by Alan S. Gerber and Donald P. Green”.  
*Newsletter of the APSA Experimental Section*, Volume 3, Issue 1, 2012.
- “Two Tailed Test”.  
*Encyclopedia of Research Design*, SAGE Publications, 2010.
- “Changes in the Panamanian Wage Structure: A Quantile Regression Analysis”, with Sebastian Galiani.  
*Economica* 51(1): 3-26, 2005.

## Statistical Software Articles

- “Power Calculations for Regression Discontinuity Designs”, with Matias Cattaneo and Gonzalo Vazquez-Bare.  
*Stata Journal* 19(1): 210-245, 2019.
- “**rdrobust**: Software for Regression Discontinuity Designs”, with Sebastian Calonico, Matias Cattaneo and Max Farrell.  
*Stata Journal* 17(2): 372-404, 2017.

“Inference in Regression Discontinuity Designs under Local Randomization”, with Matias Cattaneo and Gonzalo Vazquez-Bare.

*Stata Journal* 16(2): 331-367, 2016.

“**rdrobust**: An R Package for Robust Nonparametric Inference in Regression-Discontinuity Designs”, with Sebastian Calonico and Matias Cattaneo.

*R Journal* 7(1): 38-51, 2015.

“Robust Data-Driven Inference in the Regression-Discontinuity Design”, with Sebastian Calonico and Matias Cattaneo.

*Stata Journal* 14(4): 909-946, 2014.

## Work in Progress

“Parties as Disciplinarians: The Electoral Strategies of Centrist Parties”, with James Hollyer and Marko Klašnja.

“The Steroid Era in Political Science”, with Nicolas Idrobo, Arthur Lupia, and Hwayong Shin.

“Covariate Distributions and Feasible Questions in Comparative Politics and Political Economy”, with Nicolas Idrobo.

“Natural Experiments”. Chapter in preparation for *Advances in Experimental Political Science*, J. N. Druckman and D. P. Green, eds.

“Extrapolating Treatment Effects in Multi-cutoff Regression Discontinuity Designs”, with Matias Cattaneo, Luke Keele, and Gonzalo Vazquez-Bare.

“Analysis of Regression Discontinuity Designs with Multiple Cutoffs or Multiple Scores”, with Matias Cattaneo and Gonzalo Vazquez-Bare.

“Regression Discontinuity Designs: A Review”, with Matias Cattaneo.

## Grants, Honors, and Awards

*Editor’s Choice* for “Geographic Natural Experiments with Interference: The Effect of All-Mail Voting on Turnout in Colorado”. Published in *CEsifo Economic Studies*, 2018.

*Statistical Software Award* for developing statistical software that makes a significant research contribution for [RD designs software](#) packages. Awarded by the Society for Political Methodology, 2017.

*Citation of Excellence Award* for highly cited papers relating to the areas of Business Management, Finance, Accounting, Economics and Marketing, for “Robust Nonparametric Confidence Intervals for Regression-Discontinuity Designs”. Awarded by Emerald Group Publishing, 2017.

*Emerging Scholar Award* to honor a young researcher, within ten years of their degree, who is making notable contributions to the field of political methodology. Awarded by the Society for Political Methodology, 2016.

*Gosnell Prize for Excellence in Political Methodology* for best work in political methodology presented at any political science conference during the preceding year for “Robust Nonparametric Confidence Intervals for Regression-Discontinuity Designs”. Awarded by the Society for Political Methodology, 2015.

*Thomas R. Ten Have Citation* for exceptionally creative or skillful research on causal inference for “Geographic Boundaries as Regression Discontinuities”. Awarded at Atlantic Causal Inference Conference, 2011.

*Robert H. Durr Award* for best paper applying quantitative methods to a substantive problem for “Exploiting Tom DeLay: A New Method for Estimating Incumbency Advantage and the Effect of Candidate Ethnicity on Turnout”. Awarded by the Midwest Political Science Association, 2009.

National Science Foundation.

“Empirical Implications of Theoretical Models (EITM) Summer Institutes 2019-2022”: SES 1756746, \$1,999,513, 2019–2023, with Sean Gailmard, Scott de Marchi, and Maggie Penn.

“New Methodological Developments for Inference in the Regression Discontinuity Design”: SES 1357561, \$276,756, 2014–2017, with Matias Cattaneo.

Keynote Lectures.

Latin American Political Methodology Conference, Montevideo, 2019.

Workshop in Political Economy, Barcelona Institute of Economics, Barcelona, 2019.

Minnesota Political Methodology Colloquium Conference, University of Minnesota, Minneapolis, 2019.

Latin American Political Methodology Conference, Santiago de Chile, 2017.

CESifo Economic Studies Conference, Ifo Institute, Munich, 2016.

University of Michigan.

*James Orin Murfin* chair professorship, 2016–2019.

*Associate Professor Support Fund*, 2016.

*Converse-Miller Award*, Center for Political Studies, ISR, 2014.

*Roy Pierce Award*, Center for Political Studies, ISR, 2013.

*Spring/Summer Research Grant*, Rackham Graduate School, 2013.

*Eldersveld Prize* for outstanding research contributions, Department of Political Science, 2012.

University of California at Berkeley.

*Mike Synar Research Fellowship*, Institute of Governmental Studies, 2008.

*Dissertation Research Award*, Institute of Business and Economic Research, 2007.

*Tinker Summer Field Research Grant*, Center for Latin American Studies, 2006.

Universidad de Buenos Aires, Magna Cum Laude, Department of Economics, 2001.

## Refereeing Service

Best Reviewer Award, *Political Science Research and Methods*, 2017.

Refereeing experience in Social and Behavioral Sciences, and Policy:

*American Economic Journal: Economic Policy; American Journal of Political Science; American Politics Research; American Political Science Review; British Journal of Political Science; Comparative Political Studies; Economics and Politics; Economic Journal; Educational Administration Quarterly; European Economic Review; Journal of Elections, Public Opinion and Parties; Journal of Experimental Political Science; Journal of Law, Economics and Organization; Journal of Legal Studies; Journal of Policy Analysis and Management; Journal of Politics; Journal of Race, Ethnicity, and Politics; Journal of Theoretical Politics; Latin American Research Review; Legislative Studies Quarterly; Party Politics; Political Analysis; Political Behavior; Political Research Quarterly; Political Science Research and Methods; Public Opinion Quarterly; Publius: The Journal of Federalism; Quarterly Journal of Political Science; Research and Politics; Review of Economics and Statistics; State Politics and Policy Quarterly; Statistics, Politics, and Policy; Sociological Methods and Research; and Studies in Comparative International Development.*

Refereeing experience in Statistics, Econometrics, and Others:

*Annals of Applied Statistics; Big Data & Society; Biostatistics; Ecological Applications; Journal of the American Statistical Association; Journal of Applied Econometrics; Journal of Business & Economic Statistics; Journal of Econometrics; Journal of Evaluation in Clinical Practice; Journal of the Royal Statistical Society: Series A; Journal of the Royal Statistical Society: Series C; Nature Sustainability; Physica A: Statistical Mechanics and its Applications; PLOS ONE; Science.*

Grant reviewer for: National Science Foundation, Department of Education.

## Other Professional Service and Activities

National Science Foundation.

Member of Advisory Committee, Directorate for Social, Behavioral, and Economic Sciences, 2018–2021.  
Member of Advisory Panel, Methodology, Measurement, and Statistics Program, 2017–2019.

American Political Science Association.

Elected Member of Council, 2018–2021.  
Member of Council Teaching and Learning Committee, 2018–2019.

Society for Political Methodology.

Member-At-Large, 2017–present.  
Chair of Diversity Committee, 2017–present.  
Member of Diversity Committee, 2011–2013 and 2015.

Empirical Implications of Theoretical Models (EITM) Summer Institute.

Co-principal investigator and leadership team, 2017–present.  
Invited speaker, Duke University, 2016.  
Invited speaker, University of Michigan, 2015.

Member of Experiments on Governance and Politics (EGAP), 2016–present.

Co-organizer, Women in Data Science Symposium (WiDS), MIDAS, University of Michigan, 2018.

Co-organizer, Symposium in Honor of the Scholarship of Professor Robert S. Erikson, 2016.

Member of expert panel to revise Regression Discontinuity Design standards for What Works Clearinghouse (WWC), Institute of Education Sciences, U.S. Department of Education, 2013–2014.  
Coordinated by Mathematica Policy Research.

Chair of Methodology Posters Section, Midwest Political Science Association Annual Meeting, 2013.

University of Michigan.

Co-founder and co-organizer, Interdisciplinary Seminar in Quantitative Methods (ISQM), 2013–2019.  
Member of Faculty Engagement and Recruitment Committee, MIDAS, 2018–2019.  
Member of Committee on Quantitative Social Science, LSA Dean Office, 2016–2017.  
Member of Advisory Committee, ICPSR Summer Program, Institute of Social Research, 2015–2016.  
Elected member of Executive Committee, Department of Political Science, 2018–2019.  
Coordinator of Methods subfield, Department of Political Science, 2016–2019.

Visiting Scholar, Department of Political Science, MIT. 2011–2012.

## Workshops and Short Courses

Regression Discontinuity Designs, Statistical Horizons.  
Philadelphia, December 2019.

Experimental and Quasi-Experimental Methods, JPAL Latin America & Caribbean.  
Universidad Torcuato Di Tella, Buenos Aires, Argentina, November 2017.  
Instituto Tecnológico Autónomo de México, Mexico City, Mexico, December 2016.  
Universidad Torcuato Di Tella, Buenos Aires, Argentina, August 2015.

Regression Discontinuity Designs, ICPSR Summer Program.  
University of Michigan, Ann Arbor: May 2018, May 2017, July 2016, and June 2015.

Regression Discontinuity Designs, Winter School in Methodology and Data Analysis.  
Universidad Católica del Uruguay, Montevideo, Uruguay: July 2016, July 2015.

Randomization Inference and Factorial Designs, Workshop on Field Experimentation in Political Economy.  
Columbia Center for the Study of Development Strategies, Columbia University, NYC, May 2011.

## Teaching Experience

Princeton University, Department of Politics

POL 573: *Quantitative Analysis III* (Ph.D.)

University of Michigan, Department of Political Science.

POLSCI 300: *Quantitative Empirical Methods of Political Science* (Undergraduate).

POLSCI 347: *Latin American Politics* (Undergraduate).

POLSCI 489: *Causal Inference in Political Science Research* (Undergraduate).

POLSCI 499: *Quantitative Methods for Political Analysis* (Undergraduate).

POLSCI 688: *Causal Inference in the Social Sciences* (Ph.D).

POLSCI 699: *Statistical Methods II* (Ph.D).

POLSCI 787: *Multivariate Analysis* (Ph.D).

POLSCI 799: *Advanced Quantitative Empirical Methods* (Ph.D).

## Personal

Naturalized U.S. citizen, born in Argentina. Date of birth: June 15, 1979.

Married to Matias Cattaneo. Mother of Lucero (born July 2009) and Maite (born September 2011).