

- CONTACT** Westat
 Statistics and Survey Methods Unit
 1650 Research Boulevard
 Rockville, MD 20850
 Email: griverorz@gmail.com
 Website: griverorz.net
 GitHub: [griverorz](https://github.com/griverorz)
- ACADEMIC PROFILE** Survey Methods, Quantitative Political Science, Political Behavior, Public Opinion, Comparative Politics
- EDUCATION**
- | | |
|---|------|
| Ph.D. in Political Science, <i>New York University</i> | 2013 |
| <i>Committee:</i> Adam Przeworski (chair), David Stasavage, Leonard Wantchekon | |
| M.A. in Political Science, <i>New York University</i> | 2009 |
| M.A. in Social Sciences, <i>Juan March Institute</i> , Madrid | 2006 |
| M.A. in History (Prehistory & Archaeology), <i>University of Vigo</i> , Ourense | 2004 |
| B.A. in History, <i>University of Vigo</i> , Ourense | 2002 |
- EMPLOYMENT**
- Data Science Lead.** Statistics and Survey Methodology Unit. *Westat*. 2015–present
- (a) My position is responsible for the design, development, and implementation of data science solutions in support of internal operations and external clients in the study areas of public health, clinical trials, education, justice, and policy evaluation.
- (b) As head of the Machine Learning, NLP, and AI committee, I oversee the methodological standards and workflows for the entire company in advanced analytics and advice senior leadership in emerging data technologies.
- (c) I lead business development efforts, such as preparation of grants and proposals, in computational social sciences and serve as primary interface between technical and non-technical teams.
- (d) I mentor and support the training of new and existing staff on advanced data tools.
- Statistical Scientist.** Scientific Research Group. *YouGov*. 2013–2015
- (a) I was the statistician of the analytics team where I provided insights to clients on accounts valued over \$1M, with work in forecasting, brand reputation and awareness, and campaign evaluation.
- (b) I advised upper management on experiment and survey design, measurement, data quality, and started the first program of A/B testing of the features of the survey system.
- (c) During my tenure, I managed the recruitment process of analytics staff, designed training materials, and mentored new junior and senior hires.
- (d) My technical accomplishments included the modernization of the toolkit for sample matching and weighting using Machine Learning, the refactoring of a toolkit for Bayesian conjoint analysis, and the application of NLP tools to survey classification.
- TECHNICAL SKILLS**
- Languages: Python, C++, JavaScript
 Experience with `numpy`, `scikit-learn`, `pandas`, `keras`, `NLTK`, `spacy`
 Stack includes `Flask`, `Celery`, `RabbitMQ`, `NGINX`, `SQLAlchemy`
- Statistics: R, Stata, Jags/Stan
 Experience with `tidyverse`, `caret`, `dlm`, `Rcpp`, `boot`, `openNLP`, `igraph`
 Development in S3 and S4
- Databases: SQL (PostgreSQL and MySQL), MongoDB, ElasticSearch
- DevOps: Amazon AWS, Apache Spark, Docker
 Experience with `Ansible`, `Fabric`, `PySpark/sparklyr`
- BOOKS**
1. Gayo-Avello, D.; Jungherr, A. and **Rivero, G.** (exp. 2018) *Contingent Disruption: Digital Media and Politics*. Cambridge University Press (Under contract).
 2. **Rivero, G.** (2011) *Análisis de datos incompletos en Ciencias Sociales*. CIS, Madrid.

PEER-
REVIEWED
ARTICLES

1. Tourangeau, R.; Maitland, A.; **Rivero, G.**; Sun, H.; Williams, D. and Yan, T. (exp. 2018): “Web Surveys by Smartphones and Tablets: Effects on Data Quality.” *Social Science Computer Review*. OnlineFirst.
2. Tourangeau, R.; Maitland, A.; **Rivero, G.**; Sun, H.; Williams, D. and Yan, T. (exp. 2018): “Web Surveys by Smartphones and Tablets: Effects on Survey Responses.” *Public Opinion Quarterly*.
3. **Rivero, G.** (2017): “Preaching to the Choir. Ideology and Following Behavior in Social Media.” *Contemporary Social Science*. OnlineFirst.
4. Fernández-Vázquez, P.; Barberá, P. and **Rivero, G.** (2015): “Rooting Out Corruption or Rooting For Corruption? The Heterogeneous Electoral Consequences of Scandals.” *Political Science Research and Methods*, 4 (2): 379-397
5. **Rivero, G.** (2015): “Heterogeneous Preferences in Multidimensional Voting Models: Ideology and Nationalism in Spain.” *Electoral Studies*, 40: 136-145.
6. Przeworski, A.; **Rivero, G.** and Xi, T. (2015): “Elections as a Conflict Processing Mechanism.” *European Journal of Political Economy*, 39: 235-248.
7. Barberá, P. and **Rivero, G.** (2015): “Understanding the Political Representativeness of Twitter Users,” *Social Science Computer Review*, 33 (6): 712-729.

CHAPTERS
IN BOOKS

1. Barberá, P. and **Rivero, G.** (2012): ¿Un tweet, un voto? Desigualdad en el debate político en Twitter. In Cotarelo, R. and Crespo, I. (ed.): *La comunicación política y las nuevas tecnologías*. Ed. Libros de la Catarata: 200–220.

OTHER
PUBLICATIONS

1. Riddles, J.; Burke, J.; **Rivero, G.** and Rust, K. (2017): Adjustments to Student Weights to Account for Student Nonresponse in the National Assessment of Educational Progress. *Proceedings of the Joint Statistical Meetings*. American Statistical Association.
2. **Rivero, G.** and Fernández-Vázquez, P. (2011): Las consecuencias electorales de los escándalos de corrupción municipal, 2003–2007. *Estudios de Progreso*, 59
3. Lapuente, V.; Fernández-Vázquez, P. and **Rivero, G.** (2011): Carencias en el control vertical y horizontal de la corrupción. In Estefanía, J. (Ed.): *Informe sobre la Democracia en España, 2011*. Fundación Alternativas: 199–222

ADDITIONAL
TRAINING

Short courses
R and Spark: Tools for Data Science Workflows. *National Institute of Statistical Sciences* Sep. 2017
Statistical Learning and Data Mining. *Trevor Hastie/Rob Tibshirani* Oct. 2016

Long courses
Quantitative Methods for Social Research. *ICPSR, University of Michigan* June–Aug. 2005
Courses: Bayesian Statistics, Advanced MLE, Game Theory II, Regression Analysis III
PGCert in Advanced Methods of Applied Statistics, *UNED* 2005
Areas: Robust Statistics, Resampling Methods, Multivariate Statistics
Coursework of the Ph.D. in Economic Theory, *U. Santiago de Compostela* 2004
Courses: Microeconomics, Macroeconomics, Social Choice, Game Theory, Cooperative Games

RESEARCH
AFFILIATIONS

Research affiliate (*Doctor miembro*). *Juan March Institute*, Madrid 2013–present
Visiting Scholar. Institute for Economic Analysis, *CSIC*, Barcelona 2010–2011

GRANTS

Dictatorial Repression and Judicial Systems. The Determinants of Authoritarian Stability and Transitional Justice, €30,000. Spanish Ministry of Science. Paloma Aguilar (PI, UNED) 2012–2015
Technologies of Rebellion and Violence during Civil War, €12,000. Institut Català Internacional per la Pau. With Laia Balcells (PI, Duke) 2011
Disentangling the Origins and Consequences of Authoritarian Institutions, €3,612. Juan March Institute. With Abel Escriba 2010

FELLOWSHIPS
& AWARDS

McCracken Fellowship, *GSAS, New York University* 2007–2012
Juan March Fellowship, *Juan March Institute* 2003–2007

	Research assistant fellowship, <i>U. de Santiago de Compostela</i>	June–Sept. 2003
	Xunta de Galicia Graduate Fellowship, <i>Xunta de Galicia</i>	2002–2003
	Prize to the best academic record, <i>Universidade de Vigo</i>	2002
	Research assistant fellowship, <i>Spanish Ministry of Education</i>	2001–2002
TEACHING EXPERIENCE	<i>Workshops & Summer Schools</i>	
	“Big Data for Public and Private Sectors” (40 hours). <i>U. del Rosario, Bogotá</i>	June 2017
	“Advanced R” (6 hours). <i>Westat</i>	June 2016
	“Introduction to Statistical Programming in R” (6 hours). <i>Westat</i>	Feb. 2016
	“Incomplete Data Analysis in Surveys” (8 hours). <i>U. Autònoma de Barcelona</i>	Nov. 2010
	<i>Teaching Assistant</i>	
	Power & Politics in America. Prof. Patrick Egan. <i>NYU</i>	Fall 2012
	Power & Politics in America. Prof. Sanford Gordon. <i>NYU</i>	Spring 2012
	International Politics. Prof. Shanker Satyanath. <i>NYU</i>	Fall 2011
	Quantitative Methods for Political Science. Prof. Matthew Stevens. <i>NYU</i>	Fall 2008 & Spring 2009
INVITED TALKS	University of Durham, Universidad del Rosario (Colombia)	2017
	Trinity College of Dublin	2016
	TIGER (Toulouse School of Economics)	2014
	Instituto Tecnológico Autónomo de México, Spanish National Research Council	2012
	Universitat Autònoma de Barcelona	2011
ORGANIZED CONFERENCES	The Organization of Security and Justice System Institutions in Autocracies. <i>Hosting institution:</i> Juan March Institute - Carlos III, Madrid <i>Committee:</i> P. Aguilar, A. Escribà-Folch, J.A. Mayoral, J. Ríos Figueroa, and G. Rivero	June, 2015
OUTREACH	Member of the editorial board of the social science blog “Politikon”	2015–present
	<i>Mentions and interviews in media</i>	
	El Mundo. “ <i>El voto oculto de Donald Trump</i> ”. Oct. 27, 2016.	
	Univisión. “ <i>Por qué es muy improbable que fallen las encuestas como dice Trump.</i> ” Oct. 25, 2016.	
	El País. “ <i>La corrupción sale gratis en España.</i> ” Jul. 2, 2016.	
	Expansión. “ <i>El porqué de la corrupción política.</i> ” Jun 30, 2016.	
	Xataka. “ <i>¿Predice el big data sobre redes sociales mejor que las encuestas quiénes ganan las elecciones?</i> ” Dec. 15, 2015.	
	Pacific Standard. “ <i>Why do we elect corrupt politicians.</i> ” Nov. 24, 2014.	
	El País. “ <i>Rajoy y Rubalcaba empatan en la valoración de los usuarios de Twitter.</i> ” Sep. 26, 2011.	
	<i>Writings in media</i>	
	Ahora. “ <i>Cuando PP y PSOE perdieron a los jóvenes</i> ”, with María Ramos. Jul. 8 2016.	
	El País. “ <i>El éxito de las encuestas</i> ”, with Kiko Llaneras. Mar. 30, 2015.	
	European Politics and Policy Blog, London School of Economics. “ <i>Political discussions on Twitter during elections are dominated by those with extreme views</i> ”, with Pablo Barberá. Dec. 13, 2014.	
CONFERENCES (SELECTION)	“Adjustments to Student Weights to Account for Student Nonresponse in the National Assessment of Educational Progress.” <i>(JSM 2017)</i>	
	“Do Wealthy People Explain Inequality Differently, and Does It Matter?” <i>MPSA (2017), APSA (2017)</i>	
	“One Size Does Not Fit All: Measuring and Evaluating Interviewer Performance in Multiple Dimensions.” <i>AAPOR (2017)</i>	
	“Responsive Design and Predictive Modeling in Context: Combining Geographical Information and Paradata,” <i>ITSEW (2016)</i>	

“Bridging Online and Offline Political Attitudes,” *APSA* (2015)
 “The Organization of Security under Dictatorship: Paramilitaries, Repression and Coup-Proofing,”
EPSA(2014), *APSA* (2015)
 “A Computational Model of Military Promotions,” *MPSA*(2015)
 “Military accountability. Social Unrest and Military Coups,” *APSA* (2013)
 “Elections Under a Shadow of Force,” *APSA* (2013)
 “One Tweet, One Vote? Inequality in the Political Debate on Twitter,” *ALICE* (2012)
 “Rooting Out Corruption or Rooting for Corruption? The Electoral Consequences of Corruption
 Scandals in Spain, 2003–2011,” *EPSA* (2012), *IPSA* (2012), *MPSA* (2013)
 “Oligopoly of Violence: Civilian Control of a Heterogeneous Military,” *APSA* (2011), *EPSA* (2011),
MPSA (2011)
 “Military Coups during Military Regimes,” *APSA* (2010)
 “Electoral Consequences of Corruption Scandals in Spain (2003–2007),” *ECPR* (2010), *MPSA* (2010)

RESEARCH ASSISTANSHPIS Prof. Adam Przeworski (NYU). Collection of constitutional and electoral data for the dataset *Political Institutions and Political Events*. 2008 – 2011
 Prof. Covadonga Meseguer (CIDE). Technical review and discussion of the book *Learning, Policy Making, and Market Reforms*. Cambridge University Press. 2007 – 2008

SERVICE & MEMBERSHIP *Referee*
 Political Behavior, Journal of Conflict Resolution, Spanish National Agency for Evaluation and Prospective, Dados, Spanish Journal of Political Science, Journal of Survey Statistics and Methodology, Cambridge University Press, Armed Forces and Society, War in History, Social Science Computer Review

Member of expert panels
 Bureau of Justice Statistics

Mentorship
 Shane Campbell (Washington Statistical Society, 2017-2018)
 Ruodan Zhang (Midwest Political Science Association, 2017-2018)

Professional memberships
 American Political Science Association (Political Methodology Section), American Statistical Association (Statistical Learning and Data Science Section)

MISCELLANEA Tracking of the Spanish 2011 legislative elections using sentiment analysis, with Pablo Barberá 2011
 Website: <http://www.tuitometro.es/> (Inactive since November, 20, 2011)