

JACOB MICHAEL MONTGOMERY

Last updated: August 12, 2020

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EMPLOYMENT

- 2017– WASHINGTON UNIVERSITY IN ST. LOUIS
Associate Professor, Department of Political Science
- 2011–2017 WASHINGTON UNIVERSITY IN ST. LOUIS
Assistant Professor, Department of Political Science

EDUCATION

- 2011 DUKE UNIVERSITY
Ph.D., Political Science
- 2009 DUKE UNIVERSITY
M.S., Statistical Sciences
- 2002 WAKE FOREST UNIVERSITY (*Summa Cum Laude, Phi Beta Kappa*)
B.A., Mathematical-Economics and Political Science (Honors)

PUBLICATIONS

Refereed Journal Articles in Political Science

29. Montgomery, Jacob M. and Min Hee Seo. Forthcoming. “Closeness and Strategic Participation: Does the Closeness of the U.S. Presidential Election Shape Where College Students Register to Vote?” *Journal of Politics*.
28. Duck-Mayr, JBrandon, Roman Garnett, and Jacob M. Montgomery. 2020. “GPIRT: A Gaussian Process Model for Item Response Theory.” *Proceedings of the Thirty-Sixth Conference on Uncertainty in Artificial Intelligence*. <https://arxiv.org/pdf/2006.09900.pdf>
27. Guess, Andrew, Michael Lerner, Benjamin Lyons, Jacob Montgomery, Brendan Nyhan, Jason Reifler, and Neelanjan Sircar. 2020. “A digital media literacy intervention increases discernment between mainstream and false news in the United States and India.” *Proceedings of the National Academies of Science* 117 (27) 15536-15545. <https://doi.org/10.1073/pnas.1920498117>
26. Jacob M. Montgomery and Erin L. Rossiter. Forthcoming. “So Many Questions, So Little Time: Adaptive Personality Inventories for Survey Research.” *Journal of Survey Statistics and Methodology*. <https://doi.org/10.1093/jssam/smz027>

25. Andrew M Guess, Dominique Lockett, Benjamin Lyons, Jacob M Montgomery, Brendan Nyhan, Jason Reifler. 2020. “Fake news may have limited effects beyond increasing beliefs in false claims.” *Harvard Kennedy School Misinformation Review* 1 (1). <https://doi.org/10.37016/mr-2020-004>
24. Tucker, Patrick D., Jacob M. Montgomery, and Steven S. Smith. 2019. “Party Identification in the Age of Obama: Evidence on the Sources of Stability and Systematic Change in Party Identification from a Long-Term Panel Survey.” *Political Research Quarterly* 72 (2): 309-328. <https://doi.org/10.1177/1065912918784215>
23. Hollenbach, Florian, Jacob M. Montgomery, and Adriana Crespo-Tenorio. 2019. “Bayesian Versus Maximum Likelihood Estimation of Treatment Effects in Bivariate Probit Instrumental Variable Models.” *Political Science Research and Methods* 7 (3): 651-659. <https://doi.org/10.1017/psrm.2018.15>
22. Montgomery, Jacob M., and Santiago Olivella. 2018. “Tree-Based Models for Political Science Data.” *American Journal of Political Science* 62 (3): 729-744. <https://doi.org/10.1111/ajps.12361>
21. Montgomery, Jacob M., Brendan Nyhan, and Michelle Torres. 2018 “How Conditioning on Post-Treatment variables Can Ruin Your Experiment and What to do About It.” *American Journal of Political Science* 62: (3): 760-775. <https://doi.org/10.1111/ajps.12357>
 – One of the twenty most downloaded articles published in the journal from 2017–2018; featured in a 2019 virtual issue of twenty highly-cited articles from the journal.
20. Butler, Ryden, Brendan Nyhan, Jacob M. Montgomery, and Michelle Torres. 2018. “Revisiting White Backlash: How Race Affects Death Penalty Opinion Today.” *Research and Politics* 5 (1). <https://doi.org/10.1177/2053168017751250>
19. Carlson, David and Jacob M. Montgomery. 2017. “A Pairwise Comparison Framework for Fast, Flexible, and Reliable Human Coding of Political Texts.” *American Political Science Review* 111 (4): 835-843. <https://doi.org/10.1017/S0003055417000302>
18. Montgomery, Jacob M., and Brendan Nyhan. 2017. “The Effects of Congressional Staff Networks in the U.S. House of Representatives.” *Journal of Politics* 79 (3): 745-761. <https://doi.org/10.1086/690301>
17. Hazelton, Morgan, Jacob M. Montgomery, and Brendan Nyhan. 2016. “Does Public Financing Affect Judicial Behavior? Evidence from the North Carolina Supreme Court.” *American Politics Research* 44 (4): 587-617. <https://doi.org/10.1177/2F1532673X15599839>
16. Freeze, Melanie and Jacob M. Montgomery. 2016. “Static Stability and Evolving Constraint: Preference Stability and Ideological Structure in the Mass Public.” *American Politics Research* 44 (3): 415-447. <https://doi.org/10.1177/2F1532673X15607299>
 – Awarded the Hahn-Sigelman prize for the best article published in *American Politics Research* in 2016

15. Montgomery, Jacob M., Santiago Olivella, Joshua D. Potter, and Brian Crisp. 2015. "An Informed Forensics Approach to Detecting Vote Irregularities." *Political Analysis* 23 (4): 488-505. <https://doi.org/10.1093/pan/mpv023>
14. Nyhan, Brendan and Jacob M. Montgomery. 2015. "Connecting the Candidates: Consultant Networks and the Diffusion of Campaign Strategy in American Congressional Elections." *American Journal of Political Science* 49 (2): 292-308. <https://doi.org/10.1111/ajps.12143>
– Awarded the Political Ties Award by the Political Networks Section of APSA
13. Montgomery, Jacob M., Florian M. Hollenbach, and Michael D. Ward. 2014. "Calibrating Ensemble Forecasting Models with Sparse Data in the Social Sciences." *International Journal of Forecasting* 31 (3): 930-942. <https://doi.org/10.1016/j.ijforecast.2014.08.001>
12. Aldrich, John H., Jacob M. Montgomery, and David Sparks. 2014. "Polarization and Ideology: Partisan Sources of Low Dimensionality in Scaled Roll-Call Analyses." *Political Analysis* 22 (4): 435-456. <https://doi.org/10.1093/pan/mpt048>
11. Montgomery, Jacob M. and Josh Cutler. 2013. "Computerized Adaptive Testing for Public Opinion Surveys." *Political Analysis* 21 (2): 141-171. <https://doi.org/10.1093/pan/mps060>
– Included in *Political Analysis* virtual issue "Greatest Hits"
10. Montgomery, Jacob M., Florian Hollenbach, and Michael D. Ward. 2012. "Improving Predictions Using Ensemble Bayesian Model Averaging." *Political Analysis* 20 (3): 271-291. <https://doi.org/10.1093/pan/mps002>
– Included in *Political Analysis* virtual issue "Big Data in Political Science"
9. Aldrich, John H., Jacob M. Montgomery, and Wendy Wood. 2011. "Turnout as a Habit." *Political Behavior* 33 (4): 535-563. <https://doi.org/10.1007/s11109-010-9148-3>
8. Montgomery, Jacob M. and Brendan Nyhan. 2010. "Bayesian Model Averaging: Theoretical Developments and Practical Applications." *Political Analysis* 18 (2): 245-270. <https://doi.org/10.1093/pan/mpq001>
7. Montgomery, Jacob M., Jerry Reiter, Alexandra Cooper, and Shuo Guan. 2008. "Nonresponse Bias on Dimensions of Political Activity Amongst Political Elites." *International Journal of Public Opinion Research* 20 (4): 494-506. <https://doi.org/10.1093/ijpor/edn041>

Refereed Journal Articles in Other Fields

6. Montgomery, Jacob M., Kristie Long Foley, and Mark Wolfson. 2006. "Enforcing the Minimum Drinking Age: State, Local, and Agency Characteristics Associated With Compliance Checks and Cops in Shops Programs." *Addiction* 101 (2): 223-231. <https://doi.org/10.1111/j.1360-0443.2006.01328.x>

Edited publications

5. Hollenbach, Florian and Jacob M. Montgomery. Forthcoming. “Bayesian Model Selection, Model Comparison, and Model Averaging.” *SAGE Handbook of Research Methods in Political Science and International Relations*. eds. Luigi Curini and Robert Franzese.
4. Moore, Ryan T. and Jacob M. Montgomery. 2014. “Building and Maintaining R Packages with devtools and roxygen2” *The Political Methodologist* 22 (1): 26-31.
3. Gomez, Brad T. and Jacob M. Montgomery. 2013. “Why John Aldrich?” *PS: Political Science and Politics* 46 (4): 857-864. <https://doi.org/10.1017/S1049096513001157>
2. Montgomery, Jacob M., Florian Hollenbach, and Michael D. Ward. 2013. “Aggregation and Ensembles: Principled Combinations of Data.” *PS: Political Science and Politics* 46 (1): 43-44. <https://doi.org/10.1017/S1049096512001552>
1. Montgomery, Jacob M., Florian Hollenbach, and Michael D. Ward. 2012. “Ensemble Predictions of the 2012 US Presidential Election.” *PS: Political Science and Politics* 45 (4): 651-654. <https://doi.org/10.1017/S1049096512000959>

Software

Duck-Mayr, JBrandon and Jacob Montgomery. `bggum`. R package available on CRAN at: <https://cran.r-project.org/web/packages/bggum/>

Rossiter, Erin and Jacob M. Montgomery. `catSurv`. R package available on CRAN at: <http://cran.r-project.org/web/packages/catSurv/>

Montgomery, Jacob M., Florian Hollenbach, and Michael D. Ward. `EBMAforecast`. R package available on CRAN at: <http://cran.r-project.org/web/packages/EBMAforecast/>

ADDITIONAL WORK

Public reports

“Fake news, Facebook ads, and misperceptions: Assessing information quality in the 2018 U.S. midterm election campaign.” With Andrew Guess, Benjamin Lyons, Brendan Nyhan, and Jason Reifer. Report prepared for the Democracy Fund.

Papers invited to revise and resubmit

“Adaptive Inventories: A Practical Guide for Applied Researchers.” With Erin Rossiter. Under contract with *Cambridge University Press*.

Under review

“Ends Against the Middle: Scaling Votes When Ideological Opposites Behave the Same for Antithetical Reasons.” With JBrandon Duck-Mayr.

Working papers

“Inferring Concepts from Topics: Towards Procedures for Validating Topics as Measures.” With Luwei Ying and Brandon M. Stewart.

“The perils of overconfidence: Consuming, sharing, and believing false news content.” With Andrew M. Guess, Benjamin A. Lyons, Brendan Nyhan, and Jason Reifler.

“The Effects of Unsubstantiated Claims of Voter Fraud on Confidence in Elections.” With Nicolas Berlinski, Margaret Doyle, Andrew M. Guess, Gabrielle Levy, Benjamin Lyons, Brendan Nyhan, and Jason Reifler

GRANTS

External grants

- 2020 National Science Foundation, Accountable Institutions and Behavior. *Proposal Title*: DDRIG: When Does Interparty Conversation Harm or Heal Affective Polarization. (\$23,298) Co-PI with Erin Rossiter.
- 2018 Democracy Fund. (\$8,500)
- 2016 National Science Foundation, Methodology, Measurement, and Statistics. *Proposal Title*: Computerized Adaptive Testing for Public Opinion Research (\$291,644)
- 2010 National Science Foundation Dissertation Improvement Grant
Proposal Title: The Causes, Consequences, and Measurement of Perceived Political Control. (\$12,000) Co-PI with John Aldrich.

Internal grants

- 2018 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis. (\$5,000)
- 2017 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis. (\$10,000)
- 2014 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis. (\$30,000)
- 2013 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis (\$8,000).
- 2012 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis (\$7,500).

2011 Faculty Research Grant, Murray Weidenbaum Center on the Economy, Government, and Public Policy at Washington University in St. Louis (\$5,500).

FELLOWSHIPS AND AWARDS

2020 Emerging Scholar Award from the Society for Political Methodology honoring a young researcher, within ten years of their degree, who is making notable contributions to the field of political methodology.

2017 Hahn-Sigelman prize for the best article published in *American Politics Research*

2015 Political Ties Award for best paper, Political Networks Section of APSA

2011–2012 Fellow, Center in Political Economy, Washington University in St. Louis

2010 Robert K. Steel Family Graduate Fellowship

2007–2010 National Science Foundation Graduate Research Fellow

2007, '08, '10 Society for Political Methodology Conference Grant

2010 Political Networks Conference Grant

2009 Robert R. Wilson Graduate Fellow in American Politics

2009 Public Choice Society Conference Grant

2005 Jaffrey Endowed Fellowship

2003 Rotary Ambassadorial Scholar

2002 Jack D. Fleer Award for Excellence in Honors in Political Science

1998–2002 Wake Forest University Reynolds Scholar

PUBLIC TALKS AND CONFERENCE PARTICIPATION

Invited talks, small conferences, and workshops

October 2019 Invited Talk, “How Conditioning on Post-Treatment variables Can Ruin Your Experiment and What to do About It,” WUSTL Psychological and Brain Sciences Brown Bag.

August 2019 Invited Talk, “Ends Against the Middle: Scaling Votes When Ideological Opposites Behave the Same for Antithetical Reasons,” University of Georgia, Department of Political Science Speaker Series.

May 2019 Invited Talk, “Ends Against the Middle: Scaling Votes When Ideological Opposites Behave the Same for Antithetical Reasons,” Stanford Political Methodology Workshop organized by Justin Grimmer.

- March 2019 Invited Talk, “Ends Against the Middle: Scaling Votes When Ideological Opposites Behave the Same for Antithetical Reasons,” MIT Methods Speaker Series organized by Teppei Yamamoto
- February 2019 Invited Talk, “Does the Closeness of the U.S. Presidential Election Shape Where College Students Register to Vote?” Koc University (Istanbul)
- June 2018 Small conference, “Computerized Adaptive Testing for Public Opinion Research,” The International Total Survey Error Workshop (ITSEW), Workshop on Approaches for Mitigating Total Survey Error (TSE) and Its Effects.
- December 2017 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” Speaker Series, Texas A&M University.
- November 2017 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” Speaker Series, University of Illinois.
- April 2016 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” New York Area Methods Meeting, Organized by Jonathan Nagler, New York University.
- March 2016 Invited talk, “Report on Adaptive Personality Inventories Measuring Need for Cognition and Need to Evaluate,” American National Election Study Advisory Board, Stanford University.
- March 2016 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” Department of Political Science Methods Speaker Series, Organized by Kosuke Imai, Princeton University.
- February 2016 Invited speaker, “Congressional Staff and the Extended Party Network in the U.S. House of Representatives,” Legislative Studies Virtual Workshop, Organized by Nate Monroe and Jason Roberts, APSA Section on Legislative Studies.
- November 2015 Invited talk, “Funneling the Wisdom of Crowds: The **SentimentIt** Platform for Human Computation Tasks,” Text-as-data Speaker Series, Organized by Arthur Spirling, New York University.
- August 2015 Invited talk, “Moving the Unmoved Mover: Individual-Level Sources of Systematic Change in Party Identification,” Department of Political Science, Duke University.
- May 2015 Invited speaker, “Congressional Staff and the Extended Party Network in the U.S. House of Representatives,” Conference Celebrating the Center for Political Institutions and Public Choice, Organized by David Rohde, Duke University.
- May 2015 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” Math & Social Sciences (MSS) Program Speaker Series, Organized by Michael Herron, Dartmouth College.
- May 2015 Invited discussant, “Conference on Ideal Point Models,” Organized by Chris Warshaw, Devin Caughey, Bret Hanlon, Stephen Jessee, Alex Tahk, and Teppei Yamamoto, Massachusetts Institute of Technology.

- January 2015 Invited talk, “Computerized Adaptive Testing for Public Opinion Research,” Department of Political Science, University of Chicago, January 2015.
- June 2013 Conference participant, “Does Public Financing Affect Judicial Behavior? Evidence from the North Carolina Supreme Court”, Political Economy and Public Law Conference (PEPL), Organized by Andrew Martin and John Patty, Center for New Institutional Social Science and the Center for Empirical Research in the Law at Washington University Law School.
- April 2012 Invited presenter, “Computerized Adaptive Testing for Public Opinion Research,” St. Louis Area Methods Meeting (SLAMM), Organized by Jeff Gill, Washington University in St. Louis.
- October 2011 Invited presenter, “Connecting the Candidates: Consultant Networks and the Diffusion of Campaign Strategy in American Congressional Elections,” American Politics Conference, Organized by Adam Berinsky, Department of Political Science, Massachusetts Institute of Technology.

Major Conference Presentations

- Asian Methods Meeting (2015, 2017)
- Annual Meeting of the American Political Science Association (2010–2012, 2014–2020)
- Annual Meeting of the Midwest Political Science Association (2007–2016)
- Paper, Annual Summer Meeting of Society for Political Methodology (2012–2013, 2016, 2019, 2020)
- Poster, Annual Summer Meeting of Society for Political Methodology (2007–2009, 2015, 2018)
- Annual Meeting of the American Association for Public Opinion Research (2013, 2019)
- Political Networks Conference (2010, 2016)
- Annual Meeting of the Public Choice Society (2009)
- Annual Meeting of the Southern Political Science Association (2006)

Conference Discussant

- New Directions in Text as Data (2016–2018)
- Annual Summer Meeting of Society for Political Methodology (2015, 2017–2020)
- Annual Meeting of the American Political Science Association (2014, 2015–2020)
- Annual Meeting of the Midwest Political Science Association (2012–2016)

PROFESSIONAL ACTIVITIES

External Service

Member, APSA Doctoral Dissertation Improvement Grant Award Committee (2020)

Member, Program Committee for Annual Summer Meeting, Society of Political Methodology (2019-2020)

Chair, Society for Political Methodology Mentoring Award Committee (2018)

Chair, Hahn-Sigelman prize committee (2018)

Section Head, Political Networks, American Political Science Association Annual Meeting (2017)

Co-organizer, 9th Annual Political Networks Workshops & Conference (2015–2016)

Member, Political Ties Award for Best Published Article Committee, APSA Political Networks Section (2015–2016)

Co-editor, Website of the Society for Political Methodology (2014–2016)

Section Head, Political Methodology, American Political Science Association Annual Meeting (2015)

Washington University Service

Director of Data Science Training, Department of Political Science (2020-2021)

Manager, The American Social Survey (2020-2021)

Chair, Department of Political Science Diversity Committee (2020-2021)

Member, Department of Political Science Diversity Committee (2018-present)

Member, *Ad Hoc* Committee on Graduate Methods Review (Present)

Field Chair, Political Methodology (2019-present)

Member, Division of Computational Data Sciences Steering Committee (2018-present)

Organizer, Summer Methods Short Courses (2014-present)

Director, Departmental Speaker Series (2016-2019)

Co-organizer, Building Data Science Conference (Spring 2018)

Chair, Search Committee (Fall 2017)

Member, *Ad Hoc* Committee on creation of Division of Computing and Data Science (2017)

Member, *Ad Hoc* Committee on the Political Science Graduate Program Curriculum (Spring 2016)

Organizer, Conference on Political Data Science, Washington University in St. Louis (2016)

Member, Board of Directors, Campus YMCA (Spring 2014–Spring 2019)

Member, University Committee on Course Evaluations (Fall 2013– Fall 2016)

Member, Methods Field Committee (Fall 2012–present)

Member, Search Committee (Fall 2012, Fall 2018)

Departmental Library Liaison (Fall 2011–2016)

Dissertation Committees (chair)

Current Erin Rossiter, Ryden Butler, Bryant Moy, Dominique Lockette

Past David Carlson (Koc University)

Dissertation Committees (member)

Current Min Hee Seo, Patrick Rickert, Patrick Silva, Luwei Ying

Past Tsung-Han Tsai, Viktoryia Schnose, Adrián Lucardi, Taeyong Park, Emily Moore, Michelle Torres, Constanza F. Schibber, Jae Hee Jung, Miguel Pereira

Third Year Committees

Sasha Degtereva (Chair), Ryan Johnson (Chair), Dominique Lockette (Chair), Erin Rossiter (Chair), Ryden Butler (Chair), Lucas Boschelli (Member), Ipek Ece (Member), Michelle Torres (Member), David Carlson (Member)

Senior Theses

Jaime Zucker, Eli Scher-Zagier (Antoinette Dames Senior Thesis Award)

Referee

American Political Science Review, American Journal of Political Science, Journal of Politics, Nature Human Behavior, Political Analysis, Proceedings of Association for the Advancement of Artificial Intelligence (AAAI), Public Opinion Quarterly, Journal of the Royal Statistical Society, Transactions on Computer-Human Interaction, Political Behavior, American Political Research, Electoral Studies, Journal of Conflict Resolution, Political Research Quarterly, Political Science Research and Methods, State Politics & Policy Quarterly, International Journal of Forecasting, Party Politics, Public Choice, Politics and Policy Review, The American Statistician, Journal of Elections Public Opinion and Parties, German Politics

TEACHING EXPERIENCE

Washington University in St. Louis

- 2020 Political Data Science
- 2017-2019 Math For Political Science (“Math Camp”)
- 2017-2019 Quantitative Political Methods II (PS 582)
- 2011-2013, 2016, 2017 Quantitative Political Methodology (PS 363)
- 2013, 2016 Measurement and Latent Trait Models (PS 539)
- 2014, 2016–2018 Applied Statistical Programming (PS 4625)
- 2011, 2013 American Political Parties (PS 5225, PS 4505)
- 2012 Experimental Politics (PS 4025)

Duke University

- Summer 2010 Math for Political Science (“Math Camp”) – Designer/Graduate Instructor
- Summer 2006 Statistics and Quantitative Literacy – Graduate Teaching Assistant