

# JUSTIN H. GROSS

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## EMPLOYMENT

<b>University of Massachusetts Amherst</b> , Associate Professor	Sept. 2019–present
<b>University of Massachusetts Amherst</b> , Assistant Professor	Sept. 2015–Aug. 2019
<b>University of North Carolina at Chapel Hill</b> , Assistant Professor	Sept. 2010–June 2015
<b>University of North Carolina at Chapel Hill</b> , Instructor	Jan. 2010–May 2010
<b>Carnegie Mellon University, Heinz College</b> , Instructor	June 2007–May 2009
<b>Salem State College</b> , Visiting Lecturer in Mathematics	Feb. 2004–July 2004

## EDUCATION

Ph.D., Statistics and Public Policy, Carnegie Mellon University, May 2010  
Diss: “Cues and Heuristics on Capital Hill: Relational Decision-Making in the United States Senate”  
Advisers: Stephen E. Fienberg & David Krackhardt (*co-chairs*), Jennifer N. Victor, Cosma R. Shalizi

M.Phil., Public Policy and Management, Carnegie Mellon University, May 2007.

M.S., Statistics, Carnegie Mellon University, May 2006

M.S., Mathematics (with honors), Salem State College, May 2004

A.B., Latin American Studies (with honors & summa cum laude), Brown University, May 1995

## REFEREED PUBLICATIONS

(Authors denoted by asterisk (\*) were students at the time research was conducted.)

### *Peer-Reviewed Journal Articles*

Rentsch, A.\*, B.F. Schaffner, and **J.H. Gross**. Forthcoming. “The Elusive Likely Voter: Improving Electoral Predictions with More Informed Vote Propensity Models.” *Public Opinion Quarterly*.

Acree, B.D.L.\*, **J.H. Gross**, A. Boydston, Y. Sim\*, and N.A. Smith. 2018. “Etch-a-Sketching: Testing the Post-Primary Moderation Hypothesis.” *American Politics Research*.

**Gross, J.H.** and J.H. Kirkland\*. 2018. “Rivals or Allies? A Multilevel Analysis of Cosponsorship Within State Delegations in the U.S. Senate.” *Congress & the Presidency*.

**Gross, J.H.** and K.T. Johnson\*. 2016. “Twitter Taunts and Tirades: Negative Campaigning in the Age of Trump.” *PS: Political Science & Politics*. 49(4), 748-754.

**Gross, J.H.** 2015. "Testing What Matters (If You Must Test at All): A Context-Driven Approach to Substantive and Statistical Significance." *American Journal of Political Science*. 59(3), 775–788.

Kirkland, J.H.\* and **J.H. Gross**. 2014. "Measurement and Theory in Legislative Networks: The Evolving Topology of Congressional Cooperation." *Social Networks*. 36:97–109.

Ringe, N., J.N. Victor and **J.H. Gross**. 2013. "Keeping Your Friends Close and Your Enemies Closer? Information Networks in Legislative Politics." *British Journal of Political Science*. 43(03):601–628.

### Peer-Reviewed Proceedings<sup>1</sup>

Card, D.\*, **J.H. Gross**, A.E. Boydston and N.A. Smith. 2016. "Analyzing Framing through the Casts of Characters in the News." In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)*, Austin, TX.

Card, D.\*, A.E. Boydston, **J.H. Gross**, P. Resnik, and N.A. Smith. 2015. "The Media Frames Corpus: Annotations of Frames Across Issues." In *Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL 2015)*, Beijing, China.

Sim, Y.\*, B.D.L. Acree\*, **J.H. Gross** and N.A. Smith. 2013. "Measuring Ideological Proportions in Political Speeches." In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2013)*, Seattle, WA.

### Peer-Reviewed Chapters

**Gross, J.H.** and J.M. Jansa\*. 2017. "Relational Concepts, Measurement, and Data Collection." *The Oxford Handbook of Political Networks*. ed. J.N. Victor, A.H. Montgomery, and M. Lubell. Oxford University Press.

**Gross, J.H.** and D. Manrique-Vallier. 2014. "A Mixed-Membership Approach to the Assessment of Political Ideology from Survey Responses." In *Handbook of Mixed Membership Models and Their Applications*. Chapman and Hall/CRC Press.

## CHAPTERS IN EDITED VOLUMES (NON-REFEREED)

**Gross, J.H.** and I. Cuevas-Molina\*. Forthcoming. "Latino Influence and the 2016 Presidential Election: Beyond All or Nothing." *The Latino Vote in the 2016 Election*, ed. G. Sanchez, R. Ramirez, and L. Fraga. East Lansing Michigan: Michigan State University Press.

**Gross, J.H.** and M. Barreto. 2015. "Latino Influence and the Electoral College: Assessing the Probability of Group Relevance." In *Latinos and the 2012 Election: The New Face of the American Voter*, ed. G. Sanchez. East Lansing Michigan: Michigan State University Press.

Barreto, M., G. Segura, L. Collingwood, **J.H. Gross** and F. Pedraza. 2014. "A 'Decisive Voting Bloc' in 2012." In *Latino America: How America's Most Dynamic Population is Poised to Transform the Politics of the Nation*, ed. M. Barreto and G. Segura. Public Affairs Books.

<sup>1</sup>These publications were subjected to double or single blind peer review of a completed paper. Publication in this type of peer-reviewed conference proceedings is the primary avenue of scholarly publishing in the fields of computer and information sciences. Thus these publications are analogous to peer-reviewed journal articles in the social sciences. In keeping with common practice in lab style scholarship, student authors are listed first, followed by junior and then senior researchers last.

## OTHER PUBLICATIONS (NON-REFEREED)

**Gross, J.H.** “How to Better Communicate Election Forecasts – In One Simple Chart.” *The Monkey Cage*, in *The Washington Post*, online, 29 November 2016. ([link](#))<sup>2</sup>

**Gross, J.H.** “Latino Electorate On Track For Historic Turnout In 2016.” *Huffington Post*, online, 2 November 2016.

**Gross, J.H.** and K.T. Johnson\*. “On Twitter, Trump ‘Punches Down’ Far More Than Any of His Rivals.” *The Monkey Cage*, in *The Washington Post*, online, 27 October 2016. ([link](#))<sup>3</sup>

**Gross, J.H.**, C.R. Shalizi, and A. Gelman. 2012. “Review Symposium: A Discussion of Tim Groseclose’s *Left Turn: How Liberal Media Bias Distorts the American Mind*.” *Perspectives on Politics*. 10(03):775–779.

**Gross, J.H.** and J.H. Kirkland\*. 2011. “Legislative Networks.” In *The Encyclopedia of Social Networks.*, ed. G.A. Barnett. Sage Press.

## Works in Progress

“Performing Ideology: Opinion Elites as Modelers, Teachers, and Test-Marketers of Value Framing.” With D.J. Barney\* and K.T. Johnson\*. (Nearly completed; submitting to *Perspectives on Politics*)

“The Elusive Likely Voter: Improving Electoral Predictions by Modeling Vote Propensity.” With A. Rentsch\* and B.F. Schaffner. (Editing longer work; submitting to *Political Analysis* in Fall 2018)

“How We Are vs. How We Should Be: Premises Over Values in Ideological Polarization.” (Early in process; submitting CCES 2018 survey questions for project)

“Attributing Authorship: Untangling Mixtures of Judicial Opinions.” With D.R. Rice. (Design phase)

*The Rise of the Commentariat: Ideological Communicators, Folk Philosophers, & Frame Merchants.* (Book Project; preliminary phase)

## HONORS

Fellow, Institute for Social Science Research Scholars Program, UMass–Amherst, 2018-19

Winner, American Statistical Association Student Paper Competition, Sponsored by Government Statistics, Social Statistics, and Survey Research Methods Sections, \$600 Award, January 2007

Award for Outstanding Honors Thesis in Latin American Studies, for “Communities of Populations in Resistance of Guatemala: Birth and Evolution of a Social Movement.” Brown University, Dept. of Latin American Studies, May 1995

Phi Beta Kappa, Brown University, May 1995

<sup>2</sup><https://www.washingtonpost.com/news/monkey-cage/wp/2016/11/29/how-to-better-communicate-election-forecasts-in-one-simple-chart/>

<sup>3</sup><https://www.washingtonpost.com/news/monkey-cage/wp/2016/10/27/trump-hurls-far-more-attacks-via-twitter-than-any-of-his-rivals-sad/>

## GRANTS

Co-Principal Investigator. **\$60,000**. May 2016–April 2017. “What’s The Angle? Disentangling Perspectives from Content in the News.” Bloomberg Data Science Research Grant, Bloomberg Labs. With Noah Smith, Philip Resnik, and Amber Boydstun. (Co-PI allotment: \$5000.)

Co-Principal Investigator. **\$38,540**. July 2015–September 2016. “Collaborative: Data-Driven, Computational Models for Discovery and Analysis of Framing.” IIS Social-Computational Systems Program, National Science Foundation. (Note: Grant transferred to UMass-Amherst, from original \$169,540)

Recipient, Junior Faculty Development Award. **\$7500**. January–December 2013. UNC-Chapel Hill.

Co-Principal Investigator. **\$749,976**. September 2012–August 2015. “Collaborative: Data-Driven, Computational Models for Discovery and Analysis of Framing.” IIS Social-Computational Systems Program, National Science Foundation. With Noah Smith (CMU), Amber Boydstun (UC-Davis), and Philip Resnik (Maryland) (Co-PI allotment: \$169,540.)

Principal Investigator. **\$10,000**. June 2011–May 2012. “An Interdisciplinary Approach to Computational Politics and Policy.” Arts and Sciences Grant for Interdisciplinary Research, UNC-Chapel Hill. With Peter Mucha (Math), Shankar Bhamadi (Statistics & Operations Research) and John Scott (Public Policy).

Principal Investigator. **\$13,989**. June 2011–May 2012. Social Science Seed Grant for Multidisciplinary Research, The Latane Fund of the College of Arts and Sciences and the Odum Institute for Research in Social Science, UNC-Chapel Hill. With Shankar Bhamadi and John Scott.

Recipient, Conference Travel Award. **\$500**. June 2011. Center for Global Initiatives (CGI), UNC-Chapel Hill. Travel to Dublin, Ireland for EPSA conference.

## INVITED PRESENTATIONS

“Clustering Ideological Writings by Saliency and Valence of Core Values.” *Classification Society Annual Meeting*. Stony Brook University. July 2018.

“Latino Voting Power: Beyond All or Nothing.” *Symposium: Latinos in the 2016 Election*. University of Notre Dame, December 2016.

“A Mixed Membership Approach to the Assessment of Values, Beliefs, and Ideology.” Depts. of Political Science and Statistics. Iowa State University. February 2015.

“Avoiding Oversimplification in Typological Representation of Values and Beliefs.” Pew Research Center. February 2015.

“Constructing Idea-oriented Measures of Ideology in Text.” Dept. of Political Science, Penn State University. January 2015.

“Building Idea-oriented Measures of Ideology in Text.” Dept. of Political Science, UMass–Amherst. November 2014.

“The Measurement of Ideological Proportions in Text.” Dept. of Statistics, Indiana University. December 2013.

“Measuring Ideological Proportions in Political Speeches.” Dept. of Statistics, Duke University. October 2013.

"Latino Influence on the Presidential Election 2012: The Role of Uncertainty and the Electoral College." Invited Panel Presentation, *The Latino Vote in the 2012 Swing States*, at *Western Political Science Association*, Annual Meeting, Hollywood, CA, March 2013.

"The Ideology-etch-a-sketch (IDEaS) Model: Inferring Ideological Profile from Key Phrases." *Political Methodology Research Seminar*, Princeton University. February 2013.

"Toward a Unified Model of Framing in Opinion Media: A Bag-of-Memes Approach." Department of Political Science and Public Administration, University of North Carolina at Charlotte. September 2012.

"Latino Vote Matters: Immigration, Power, and an Interactive Look at the Map," *Netroots Nation*, 2012. Video: [http://www.netrootsnation.org/nn\\_events/nn-12/2012-latino-vote/](http://www.netrootsnation.org/nn_events/nn-12/2012-latino-vote/)

"Clustering Methods for Political Science: Historical Perspective and What Lies Ahead." Invited Talk. *Classification Society Annual Meeting*, St. Louis, MO, June 2010.

## SELECTED CONFERENCE PRESENTATIONS

"Performing Ideology: Opinion Elites as Modelers, Teachers, and Test-Marketers of Value Framing." *Southern Political Science Association*, Annual Meeting, New Orleans, LA, January 2018.

"Clustering the Commentariat: Identifying Idea Communities on the American Right." *APSA Political Communications Pre-Conference*, San Francisco, CA, August 2017.

"Network Clusters of Thought Leaders on the American Right." *Political Networks Conference and Workshops*, Columbus, OH, June 2017

"The Upsides and Downsides of Studying Politics as Networks." With J. Box-Steffensmeier, D. Lazer, J. Hadden, G. Koger, and J.N. Victor. Roundtable, *American Political Science Association*, Annual Meeting, Philadelphia, PA, September 2016.

"The Emergence of Negative Campaigning On Twitter: Evolution of A Signed Network During the 2016 GOP Nomination Contest." *International Network for Social Network Analysis*, Sunbelt XXXVI Conference, Newport Beach, CA, April 2016.

"Opinion Leaders of the American Right: An Affective Network." *Southern Political Science Association*, Annual Meeting, San Juan, P.R., January 2016.

"A Survey Instrument Design Approach to the Analysis of Texts." Individual Presentation, *Society for Political Methodology*, 31st Annual Summer Meeting, Athens, GA, July 2014.

"Measuring the Ideological Foundations of U.S. Public Opinion Leaders: A New Method for Analyzing Texts." With A. Sentementes. Contributed Panel Presentation, *International Society of Political Psychology*, Annual Meeting, *Ideologies and Ideological Conflict: The Political Psychology of Belief Systems*. Rome, Italy, July 2014.

"Testing the Etch-a-Sketch Hypothesis: A Computational Analysis of Mitt Romney's Ideological Make-over During the 2012 Primary vs. General Elections." With B. Acree, Y. Sim, and N.A. Smith. Contributed Panel Presentation, *American Political Science Association*, Annual Meeting, Chicago, IL, August 2013.

"'American' Ideology and the Claim of Hispanic Distinctiveness: A Latent Class Comparative Analysis." Contributed Panel Presentation, *Midwest Political Science Association*, Annual Meeting, Chicago, IL, April 2013.

"A Mixed-Membership Approach to the Assessment of Political Ideology from Survey Responses." With D. Manrique Vallier. Individual Presentation, *Society for Political Methodology*, 29th Annual Summer Meeting, Chapel Hill, NC, July 2012.

"Latent Class and Mixed-Membership Models for Accommodating Diversity Among Survey Respondents." Contributed Panel Presentation. *American Political Science Association*, Annual Meeting, Seattle, WA, September 2011.

"Integrating Substantive and Statistical Significance (or How to Test Social Science Hypotheses if You Must)." Individual Presentation, *Society for Political Methodology*, 28th Annual Summer Meeting, Princeton, NJ, July 2011.

"Latent Class and Mixed-Membership Models for Accommodating Diversity Among Survey Respondents." Contributed Panel Presentation, *European Political Science Association*, Inaugural Meeting, Dublin, Ireland, June 2011.

"Inter-office Staff Communication in the European Parliament: Homophily and Voting Patterns as Network Predictors." With N. Ringe and J.N. Victor. Contributed Panel Presentation. *Southern Political Science Association*, Annual Meeting, New Orleans, LA, January 2011.

"Cosponsorship in the U.S. Senate—A Multilevel Model for Detecting the Subtle Influence of Social Relational Factors on Legislative Behavior." Topic Contributed Talk. *International Network for Social Network Analysis*, Sunbelt Conference, St. Petersburg, FL, January 2008.

"Cosponsorship in the U.S. Senate—A Mixed Effects Approach to Detecting the Subtle Influence of Social Relational Factors." Student Paper Award Session Contributed Talk. American Statistical Association, Sections of Government Statistics, Social Statistics, and Survey Research Methods. *Joint Statistical Meetings*, Salt Lake City, UT, August 2007.

## TEACHING EXPERIENCE

*University of Massachusetts, Amherst* — Undergraduate Coursework

POLISCI 290B American Political Ideologies: Left, Right, and Beyond (Fall 2017)

POLISCI 391FPH Framing Public Policy and the News (Fall 2015, Spring 2017)

POLISCI/LEGAL 297V Weighing the Evidence: Reasoning Under Uncertainty (Spring 2016)

FFYS 197POL19 American Ideologies & Public Philosophies [1 credit] (Fall 2016)

*University of Massachusetts, Amherst* — Graduate Coursework

POLSCI 755/797AA Intro to Quantitative Analysis, UMass (Fall 2015, 2016, Fall 2018)

POLISCI 791EA Empirical Analysis of Ideologies (Spring 2017)

*University of North Carolina at Chapel Hill* — Undergraduate Coursework

POLI 089 Ideological Roots of Contemporary Political Commentary (Spring 2015)

POLI 181/281 Quantitative Research in Political Science (Spring 2010, 2011, 2014, 2015)

*University of North Carolina at Chapel Hill* — Graduate Coursework

POLI 783 Statistics I (Fall 2010, 2011, 2012, 2013, 2014)

POLI 788 Applied Statistics and Data Analysis (Fall 2010, 2011, 2012, 2013, 2014)

POLI 891 Social and Political Network Analysis (Spring 2011, 2013)

POLI 891 Measurement and Latent Variables (Spring 2014)

#### *Workshops*

Latent Variable Analysis in R (Factor Analysis, IRT, LCA), ISSR, UMass–Amherst (2017)

Intro to Social Network Analysis, ISSR, UMass–Amherst (2015, 2016)

Intro to Social Network Analysis, The Odum Institute, UNC–Chapel Hill (2013)

#### *Research Supervision*

Member, Dissertation Committees, UMass–Amherst

1. David Barney
2. Kaylee Johnson (Political Science)
3. Derek Owens-Oas (Statistics, Duke Univ.)
4. Diego Leal (Sociology)
5. Shiri Dori-Hacohen (Computer Science)
6. Katerina Marazopoulou (Computer Science)

Member, Dissertation Committees, University of North Carolina at Chapel Hill (with placements)

1. Mark Yacoub (ABD)
2. Andrew Tyner (Post-Doc, Princeton; on committee through prospectus defense)
3. Heather Ba (TT, Univ. Missouri)
4. Brice Acree (TT, Ohio State)
5. Pan Zengqi (Lecturer, Singapore Univ. Social Sciences)
6. Joshua Jansa (TT, Oklahoma State)
7. John Lovett (Lecturer, Merrimack College)
8. John Cluverius (TT, UMass–Lowell)
9. Robert Galantucci
10. Chris J. Vargo (TT, Advertising & Public Relations, Univ. Arkansas)
11. Mary L. Atkinson (TT, UNC–Charlotte)
12. Justin H. Kirkland (Tenured Associate Professor at Univ. Virginia)
13. Jonathan Kropko (TT, Univ. Virginia)

Chair, Interdisciplinary Studies Comprehensive Exam Paper, UMass–Amherst: Shih-Chan Dai (Political Science), UMass–Amherst

Member, Master's Thesis Committee: **Six** students, University of North Carolina at Chapel Hill

Member, Undergraduate Thesis Committee: **Two** students, UMass–Amherst

Member, Undergraduate Thesis Committee: **One** student, University of North Carolina at Chapel Hill

Supervisor, Undergraduate Research Assistants: **Fifty-five** students, UMass–Amherst, 2015–2018

Supervisor, Undergraduate Research Assistants: **Thirteen** students, UNC–Chapel Hill, 2012–2015

## PROFESSIONAL CONSULTING

**Latino Decisions**, Chief Statistician

January 2012–present

## UNIVERSITY AND DEPARTMENTAL SERVICE

Undergraduate Program Director-Political Science, UMass-Amherst, Summer 2018–

Member, Steering Committee, Computational Social Science Institute (CSSI), 2015–2018

Organizer, Mixed Methods for Text Analysis Mixer, 2018

Member, Graduate Admissions Committee, Dept. of Political Science, 2017–2018

Presenter, UMass SBS Alumni Advisory Board, UMass Club (Boston), March 2017

Member, Departmental Personnel Committee, Dept. of Political Science, 2016–2017

Presenter, UMass Club Presidential Campaign Political Roundtable, June 2016

Program Development (Assisting), Master’s Degree in Data Analysis & Computational Social Science, UMass–Amherst, 2016–present

Program Development (Assisting), Data Analytics for Politics, Policy, and Legal Studies (DAPPLS), Undergraduate Letter of Specialization in Department of Political Science, UMass–Amherst, 2015-2017

Member, Comprehensive Exam Committee in Methods, UNC–Chapel Hill, 2010-2015

## EXTERNAL SERVICE

Program Co-Chair, Political Networks Conference (PolNet), Duke University, 2019

Section Chair, Political Networks, Midwest Political Science Association (MPSA) Annual Meeting, 2019

Communications Director, Political Networks Section (APSA), 2014–2018

Conference Program Committee, International Conference on Computational Social Science (IC2S2), 2017

Member, Long Range Planning Committee, Society of Political Methodology, 2013–2016

Chair, Best Book Committee, Political Networks (2014-15)

Member, Best Book Committee, Political Networks (2012-13)

Editorial Board, *Statistics, Politics, and Policy*, 2011–2013

Editorial Board, *State Politics and Policy Quarterly*, 2011–2013

Conference Program Committee, Southern Political Science Association, Political Networks Section Chair, 2011

## MANUSCRIPT REVIEWER

<i>American Journal of Political Science</i>	<i>Journal of Communication</i>	<i>Political Behavior</i>
<i>American Political Science Review</i>	<i>Journal of Elections, Public Opinion, &amp; Parties</i>	<i>Proceedings of the National Academies of Science (PNAS)</i>
<i>American Politics Research</i>	<i>Journalism &amp; Mass Communication Quarterly</i>	<i>Public Choice</i>
<i>Annals of Applied Statistics</i>	<i>Journal of Politics</i>	<i>Rationality &amp; Society</i>
<i>Collabra</i>	<i>Legislative Studies</i>	<i>Research and Politics</i>
<i>Communication Reports</i>	<i>Perspectives on Politics</i>	<i>State Politics &amp; Policy Quarterly</i>
<i>Congress &amp; the Presidency</i>	<i>Policy Studies</i>	<i>Statistics &amp; Public Policy</i>
<i>European Journal of Political Science</i>	<i>Political Science Research and Methods</i>	CRC/Chapman and Hall Statistics Text Series
<i>European Journal of Sociology</i>	<i>Political Analysis</i>	Sage Publications, Inc. Methodology Texts

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