

# DUSTIN TINGLEY

1737 Cambridge St, K212  
Cambridge, MA 02138  
USA

617-496-3590  
[dtingley@gov.harvard.edu](mailto:dtingley@gov.harvard.edu)  
[www.dustintingley.org](http://www.dustintingley.org)  
[Google Scholar Page](#)

---

## Education

Princeton University, Ph.D., Politics, 2010

Princeton University, M.A., Politics, 2007

University of Rochester, B.A. Political Science (magna cum laude) w/ Minor in Mathematics, 2001

## Appointments

Professor, Government Department, Harvard University, July 2015-

Paul Sack Associate Professor of Political Economy, Government Department, Harvard University, July 2013-July 2015

Assistant Professor, Government Department, Harvard University, July 2010-June 2013

Faculty Associate, Weatherhead Center for International Affairs

Faculty Associate, Institute for Quantitative Social Science

Faculty Associate, Harvard University Center for the Environment

## Leadership

Deputy Vice Provost for [Advances in Learning](#), Harvard, July 2018-present

Faculty Director, [Harvard Initiative for Learning and Teaching](#), Harvard, August 2018-present

Faculty Director, [Vice Provost for Advances in Learning Data Science and Technology Group](#), Harvard, September 2015-present, higher education data science and technology team

co-chair, FAS Standing Committee on Public Service, September 2018-present

Director of Graduate Studies, Harvard Government Department, July 2015-June 2018

Director, [Undergraduate Research Scholars Program](#), Harvard Institute for Quantitative Social Science (IQSS), November 2011-June 2018

Faculty Director, [Harvard Experimental Working Group \(HEWG\)](#), September 2015-present, graduate student run

Co-founder, [ABLConnect](#), January 2012-present

Advisory Committee, Harvard Solar Geoengineering Research Program, February 2017-present

Board of Tutors, Applied Mathematics concentration coordinator for Department of Government, August 2017 -August 2020

Board of Tutors, Harvard Environmental Science and Public Policy concentration, August 2018 -current

Advisory Board, Harvard Data Science Review, October 2019-present

Editor (founding), [The Experimental Political Scientist](#), APSA organized section newsletter, Fall 2010-Spring 2013

Editorial boards: *Annual Review of Political Science*, *International Organization*, *Journal of Experimental Political Science*, *Journal of Politics*, *Harvard Data Science Review*, *Cambridge University Press*, “*Politics of Climate Change*” series

## Book

1. “Sailing the Water’s Edge: Domestic Politics and American Foreign Policy”, with Helen Milner, 2015, Princeton University Press, winner of American Political Science Association’s 2016 Gladys M. Kammerer Award for the best book published during the previous calendar year in the field of U.S. national policy.

## Peer Reviewed Articles

### International Relations/International Political Economy

26. "Reciprocity and Public Opposition to Foreign Direct Investment", 2020, *British Journal of Political Science*, 50(1): 129-153, with Adam Chilton and Helen Milner
25. "An Elastic National Interest: What Chinese Weibo Discourse Reveals about Chinese Relations with the US and Its Neighbors", 2020, *International Relations of the Asia-Pacific*, 20(1): 1-30, with Yichen Guan, David Romney, Amaney Jamal, and Robert Keohane
24. "What Makes Foreign Policy Teams Tick: Explaining Variation in Group Performance At Geopolitical Forecasting", 2019, *Journal of Politics*, 81(4): 1388-1404, with Michael Horowitz, Brandon Stewart, Michael Bishop, Laura Resnick, Margaret Roberts, Welton Chang, Barbara Mellers, and Phil Tetlock
23. "Firms' Preferences over Multidimensional Trade Policies: Global Production Chains, Investment Protection and Dispute Settlement Mechanisms", 2019, *International Studies Quarterly*, 63(1), 153-167, with In Song Kim, Helen Milner, Thomas Bernauer, Gabriele Spilker, and Iain Osgood
22. "Foreign Aid and the Status Quo: Evidence from Pre-Marshall Plan Aid", 2019, *Chinese Journal of International Relations*, 12(4), 585-613, with Daniel Markovitz and Austin Strange
21. "International Trade at the Margin: Estimating the Economic Implications of Preferential Trade Agreements", 2018, *Review of International Organizations*, 13(2):189-242, with Gabriele Spilker, Thomas Bernauer, In Song Kim, Helen Milner, and Iain Osgood
20. "Rising Power on the Mind", 2017, *International Organization*, 71(S1):S165-S188
19. "Emotions and the Micro-Foundations of Commitment Problems", 2017, *International Organization*, 71(S1):S189-S218, with Jooa Julia Lee and Jonathan Renshon
18. "The Charmed Life of Superstar Exporters: Firms and Trade Policy in Costa Rica", 2017, *Journal of Politics*, 47(1):133-152 with Iain Osgood, Thomas Bernauer, In Song Kim, Helen Milner, and Gabrielle Spilker
17. "Anti-Americanism or Anti-Interventionism in Arabic Twitter Discourses", 2015, *Perspectives on Politics*, 13(1): 55-73, with Amaney Jamal, Robert Keohane, and David Romney
16. "The Political Economy of Inward FDI: Opposition to Chinese Mergers and Acquisitions", 2015, *Chinese Journal of International Relations*, 8(1):25-57, with Christopher Xu, Adam Chilton, and Helen Milner
15. "Physiological Arousal and Political Beliefs", 2015, *Political Psychology*, 36(5), 569-585, with Jonathan Renshon and Jooa Julia Lee
14. "Survey Research In International Political Economy: Motivations, Designs, Methods", 2014, *International Interactions*, 40(3):443-451
13. "Trade Policy, Economic Interests, and Party Politics in a Developing Country: The Political Economy of CAFTA", 2014, *International Studies Quarterly*, 58:106-117, with Raymond Hicks and Helen Milner, re-printed in *International Political Economy: Perspectives on Global Power and Wealth*, 2017, WW. Norton, eds.: Jeff Frieden, David Lake and Lawrence Broz
12. "The Choice for Multilateralism: Foreign Aid and American Foreign Policy", 2013, *Review of International Organizations*, 8(3):313-341, lead article, with Helen Milner
11. "Public Finance and Immigration Preferences: A Lost Connection?", 2013, *Polity*, 45(1): 4-33, lead article

10. “Public Opinion and Foreign Aid: A Review Essay”, 2013, *International Interactions*, 39(3):389-401, with Helen Milner
9. “Dead Certain: Confidence and Conservatism Predict Aggression in Simulated International Crisis Decision-Making”, 2012, *Human Nature*, 23:98-126, with Dominic Johnson, Rose McDermott and Jon Cowden
8. “Can Cheap Talk Deter? An Experimental Analysis”, 2011, *Journal of Conflict Resolution*, 55(6): 994-1018, with Barbara Walter
7. “The Effect of Repeated Play on Reputation Building: An Experimental Approach”, 2011, *International Organization*, 65(2): 343-365, with Barbara Walter
6. “The Dark Side of the Future: An Experimental Test of Commitment Problems in Bargaining”, 2011, *International Studies Quarterly*, 55: 521-544
5. “Who Supports Global Economic Engagement? The Sources of Preferences in American Foreign Economic Policy”, 2011, *International Organization*, 65, Winter: 37–68, with Helen Milner
4. “Belief Updating in Sequential Games of Two-Sided Incomplete Information: An Experimental Study of a Crisis Bargaining Model,” 2010, *Quarterly Journal of Political Science*, 5(3): 243-255, with Stephanie Wang
3. “The Center Holds: Liberal Internationalism Survives”, 2010, *International Security*, 35(1): 75-94, with Stephen Chaudoin and Helen Milner
2. “The Political Economy of U.S. Foreign Aid: American Legislators and the Domestic Politics of Aid”, 2010, *Economics and Politics*, 22(2): 200-232, with Helen Milner
1. “Donors and Domestic Politics: Political Influences on Foreign Aid Commitments”, Spring 2010, *Quarterly Review of Economics and Finance*, 50(1): 40-49.

### Statistical Methodology

17. “politeness: Detecting Politeness Features in Text””, *R Journal*, with Michael Yeomans and Alejandro Kantor.
16. “stm: R package for Structural Topic Models”, 2019, *Journal of Statistical Software*, 91(2): 1-40, with Margaret Roberts and Brandon Stewart
15. “Redefine Statistical Significance”, 2017, *Nature Human Behavior*, with Benjamin, D. J., Berger, J. O., Johannesson, M., Nosek, B. A., Wagenmakers, E., and lots of other people
14. “Sparse Estimation and Uncertainty with Application to Subgroup Analysis”, 2017, *Political Analysis*, 25(1):1-40, with Marc Ratkovic, winner of 2016 Gosnell Prize for Excellence in Political Methodology, lead article
13. “Identifying Mechanisms behind Policy Interventions via Causal Mediation Analysis”, 2015, *Journal of Policy Analysis and Management*, 34(4): 937-963, with Luke Keele and Teppei Yamamoto
12. “Computer Assisted Text Analysis for Comparative Politics”, 2015, *Political Analysis*, 23(2): 254-277, with Christopher Lucas, Richard Nielsen, Margaret Roberts, Brandon Stewart, and Alex Storer
11. “TopicCheck: Interactive Alignment for Assessing Topic Model Stability”, Association for Computational Linguistics – *Human Language Technologies*, peer reviewed conference paper selected for oral presentation, 2015, with Jason Chuang, Margaret Roberts, Brandon Stewart, Rebecca Weiss, Dustin Tingley, Justin Grimmer and Jeffrey Heer

10. “Computer-Assisted Content Analysis: Topic Models for Exploring Multiple Subjective Interpretations”, 2014, *Neural Information Processing Society Workshop on Human-Propelled Machine Learning*, with Jason Chuang and 9 co-authors, (peer reviewed conference paper)
9. “Structural topic models for open ended survey responses”, 2014, *American Journal of Political Science*, 58(4):1064-1082, awarded 2014 Gosnell Prize for Excellence in Political Methodology, with Margaret Roberts, Brandon Stewart, Christopher Lucas, Jetson Leder-Luis, Shana Gadarian, Bethany Albertson, and David G. Rand
8. “Practical Implications of Theoretical Results for Causal Mediation Analysis”, 2014, *Psychological Methods*, 19(4):488-492 with Kosuke Imai, Luke Keele, and Teppei Yamamoto
7. “mediation: R package for causal mediation analysis”, 2014, *Journal of Statistical Software*, 59(5): 1-38, with Teppei Yamamoto, Luke Keele, Kentaro Hirose, and Kosuke Imai (Society for Political Methodology’s 2015 Statistical Software Award)
6. “The structural topic model and applied social science”, 2013, *Neural Information Processing Society* with Margaret Roberts, Brandon Stewart, and Edoardo Airoldi (peer reviewed conference paper, selected for oral presentation)
5. “Experimental Designs for Identifying Causal Mechanisms”, 2013, *Journal of the Royal Statistical Society, Series A*, 176(1):5-51, selected for reading by the Royal Statistical Society, lead article, with Kosuke Imai and Teppei Yamamoto
4. “A Statistical Method for Empirical Testing of Competing Theories”, 2012, *American Journal of Political Science*, 56(1): 218-236, with Kosuke Imai
3. “Causal Mediation Analysis”, 2011, *Stata Journal*, 11(4): 609-615, with Raymond Hicks
2. “Unpacking the Black Box of Causality: Learning about Causal Mechanisms from Experimental and Observational Data”, 2011, *American Political Science Review*, 105(4):765-789, with Kosuke Imai, Luke Keele, and Teppei Yamamoto
1. “A General Approach to Causal Mediation Analysis”, 2010, *Psychological Methods*, 15(4): 309-334, with Kosuke Imai and Luke Keele, lead article

## Climate Politics

8. “US and Chinese climate experts share judgements on solar geoengineering”, forthcoming, *Humanities and Social Sciences Communications*, with Zhen Dai, Elizabeth Burns, Peter Irvine, Jianhua Xu, and David Keith
7. “International Commitments and Domestic Opinion: The Effect of the Paris Agreement on Public Support for Policies to Address Climate Change”, forthcoming, *Environmental Politics*, with Mike Tomz
6. “Beliefs about Beliefs: The Importance of Second-Order Opinions for Climate Politics”, 2019, *British Journal of Political Science*, 49 (4): 1279-1307, with Matto Mildemberger
5. “Fast, cheap, and imperfect? U.S. public opinion about solar geoengineering”, 2019, *Environmental Politics*, 28 (3): 523-543, with Aseem Mahajan and Gernot Wagner
4. “Effects of environmental stressors on daily governance”, 2018, *Proceedings of the National Academy of Sciences*, 115(35), 8710-8715. with Nick Obradovich and Iyad Rahwan
3. “Solar Geoengineering and the Chemtrails Conspiracy on Social Media”, with Gernot Wagner, 2017, *Palgrave Communications*, 3
2. “What do people think when they think about solar geoengineering? A review of empirical social science literature, and prospects for future research”, 2016, *Earth’s Future*, 4(11): 536–542, with Elizabeth T. Burns, Jane A. Flegal, David W. Keith, Aseem Mahajan, and Gernot Wagner

1. “Conditional Cooperation and Climate Change”, 2014, *Comparative Political Studies*, 47(3): 344-368, with Michael Tomz

## Education

15. “Scaling Up Behavioral Science Interventions in Online Education” 2020, *Proceedings of the National Academy of Sciences*, 117(26): 14900-14905, with René Kizilcec, Justin Reich, Michael Yeomans, Christoph Dann, Emma Brunskill, Glenn Lopez, Selen Turkey, Joseph Williams
14. “Modelling and using response times in Online Courses”, 2019, *Journal of Learning Analytics*, 6(3): 76-89, with Ilia Rushkin and Isaac Chuang
13. “The Effects of Adaptive Learning in a Massive Open Online Course on Learners’ Skill Development”, 2018, *Proceedings of the Fifth Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Yigal Rosen, Ilia Rushkin, Rob Rubin, Liberty Munson, Andrew Ang, Gregory Weber, and Glenn Lopez
12. “Enhancing Online Problems Through Instructor-Centered Tools for Randomized Experiments”, in *Computer Human Interaction 2018, 36th Annual ACM Conference on Human Factors in Computing Systems*, with Williams, J. J., Rafferty, A., Ang, A., Lasecki, W. S., and Kim, J.
11. “The Civic Mission of MOOCs: Engagement across Political Differences in Online Forums”, forthcoming, *International Journal of Artificial Intelligence in Education*, with Kimia Mavon, Alex Kindel, Justin Reich, Brandon Stewart, and Mike Yeomans
10. “Adaptive Assessment Experiment in a HarvardX MOOC”, 2017, *Educational Data Mining* (peer reviewed computer science conference), with Ilia Rushkin, Yigal Rosen, Andrew Ang, Colin Fredericks, Mary Jean Blink and Glenn Lopez
9. “Google BigQuery for Education: Framework for Parsing and Analyzing edX MOOC Data”, 2017, *Proceedings of the Fourth (2017) Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Glenn Lopez, Daniel Seaton, Andrew Ang, and Isaac Chuang
8. “Tools for Dynamic Experimentation and Personalization”, 2017, *Proceedings of the Fourth (2017) Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Joseph Williams, Anna Rafferty, Samuel Maldonado, Andrew Ang, and Juho Kim
7. “Connecting Instructors and Learning Scientists via Collaborative Dynamic Experimentation”, 2017, *ACM CHI Conference on Human Factors in Computing Systems* (peer reviewed computer science conference), with Joseph Williams, Anna Rafferty, Walter Lasecki, Andrew Ang, and Juho Kim, also presented at *Multi-disciplinary Conference on Reinforcement Learning and Decision Making*
6. “Designing Adaptive Assessments in MOOCs”, 2017, *Proceedings of the Fourth (2017) Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Andrew Ang, Yigal Rosen, Colin Fredericks, Ilia Ruskin, Glenn Lopez and Mary Jean Blink
5. “Discourse: MOOC Discussion Forum Analysis at Scale”, 2017, *Proceedings of the Fourth (2017) Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Alex Kindel, Mike Yeomans, Justin Reich, and Brandon Stewart
4. “MOOC Dropout Prediction: How to Measure Accuracy?”, 2017, *Proceedings of the Fourth (2017) Association for Computing Machinery on Learning @ Scale* (peer reviewed computer science conference), with Jacob Whitehill, Kiran Mohan, Daniel Seaton, and Yigal Rosen
3. “The Civic Mission of MOOCs: Measuring Engagement across Political Differences in Forums”, *Association of Computing Machinery: Learning at Scale 2016*, with Justin Reich, Brandon Stewart, and Kimia Mavon, winner of “Best Conference Paper, Association for Computing Machinery: Learning at Scale 2106, peer reviewed conference.

2. "Computer-Assisted Reading and Discovery for Student Generated Text in Massive Open Online Courses", 2015, *Journal of Learning Analytics*, 2(1): 156-184, with Justin Reich, Jetson Leder-Luis, Margaret Roberts and Brandon Stewart
1. "A Guide to Refereeing for new graduate students and recent Ph.D's", 2013, *PS: Political Science and Politics*, 46(1), with Beth Miller, Jon Pevehouse, Ron Rogowski, and Rick Wilson

## Other

11. "Republican Voters Prefer Candidates Who Have Conservative-Looking Faces: New Evidence from Exit Polls", 2018, *Political Psychology*, 39(5):1157-1171, with Christopher Olivola and Alexander Todorov
10. "The Influence of Emotion on Trust", 2016, *Political Analysis*, 24(4): 492-500, with Dan Myers
9. "The Shadow of the Future Promotes Cooperation in a Repeated Prisoner's Dilemma for Children", 2015, *Scientific Reports*, 5, with Peter Blake, David Rand and Felix Warneken
8. "Who are These People? Evaluating the Demographic Characteristics and Political Preferences of MTurk Survey Respondents", 2015, *Research and Politics*, July-September, 1-12, with Connor Huff
7. "Assortative Mating Could Operate Through Olfactory Cues", 2014, *American Journal of Political Science*, 58(4):997-1005, with Rose McDermott and Pete Hatemi
6. "Ethical Situations and their Effects on Judgments of Punishment", 2014, *Ethics and Behavior*, 24(3):253-262 with Ethan Ludwin-Perry
5. "Face-off: Facial Features and Strategic Choice", 2014, *Political Psychology*, 35(1):35-55
4. "Dissecting direct and indirect genetic effects on chronic obstructive pulmonary disease (COPD) susceptibility", 2013, *Human Genetics*, 132(4):431-441, with Mateusz Siedlinski, Peter Lipman, Edwin Silverman, Christoph Lange, and 12 other investigators
3. "Monoamine oxidase A gene (MAOA) predicts behavioral aggression following provocation", *Proceedings of the National Academy of Sciences*, 2009, 106(7): 2118-2123, with Rose McDermott, Jonathan Cowden, Giovanni Frazzetto, and Dominic Johnson
2. "Evolving Political Science: Biological Adaptation, Rational Action, and Symbolism in Political Science" 2007, *Politics and Life Sciences*, 25(1): 23-41
1. "Neurological Imaging as Evidence in Political Science: A Review, Critique, and Guiding Assessment" *Social Science Information*, 2006, 45(1): 5-33

## Law Review Articles

2. "Why the Study of International Law Needs Experiments", 2013, *Columbia Journal of Transnational Law*, 52(1): 173-238, with Adam Chilton
1. "The Doctrinal Paradox and International Law", 2012, *University of Pennsylvania Journal of International Law*, 34(1): 67-148, with Adam Chilton

## Edited Volumes

1. "The Geopolitics of Foreign Aid", 2013, Volumes 1 and 2, edited with Helen Milner, Edward Elgar Publishing

## Book chapters/Other publications

16. "America First" Meets Liberal Internationalism", 2021, *H-Diplo/ISSF Roundtable*, with Stephen Chaudoin and Helen Milner

15. “Public Perceptions of Solar Geoengineering with Implications for Governance”, In *Governance of the Deployment of Solar Geoengineering*, Edited by Robert N. Stavins and Robert C. Stowe. Cambridge, Mass: Harvard Project on Climate Agreements, February 2019.
14. [Trump just blocked a Chinese takeover of a sensitive U.S. company. Here’s what’s going on.](#), 2017, *Washington Post: Monkey Cage*, with Adam Chilton and Helen Milner
13. “A Liberal International American Foreign Policy? Maybe Down but Not Out”, 2017, *H-Diplo/ISSF Roundtable*, with Stephen Chaudoin and Helen Milner, reprinted in “Chaos in the Liberal Order The Trump Presidency and International Politics in the Twenty-First Century”, Columbia University Press
12. [Harvard and MIT Turn MOOC Data into Knowledge](#), 2016, *Educause*, with Daniel Seaton, Glenn Lopez and Ike Chuang
11. “Navigating the Local Modes of Big Data: The Case of Topic Models”, 2016, in “Computational Social Science: Discovery and Prediction”, Cambridge University Press, with Margaret Roberts and Brandon Stewart
10. “In two graphs, here’s what experts think about whether the U.S. and China can stick to their climate agreements”, *Washington Post: Monkey Cage*, with Matto Mildemberger, [link](#)
9. “Plain Text: Transparency in the Acquisition, Analysis, and Access Stages of the Computer-assisted Analysis of Texts”, 2015, *Qualitative and Multi-Method Research*, with David Romney and Brandon Stewart.
8. “Tweeting Terrorist Attacks in the U.S. and Europe”, Middle East Institute, with Amaney Jamal, David Romney, and Robert Keohane [link](#)
7. “Negotiating Agreements in International Relations”, 2013, in “Negotiating Agreements in Politics”, eds. Cathie Jo Martin and Jane Mansbridge, APSA task force report, with co-chair John Odell, forthcoming Brookings Institute Press
6. The Geopolitics of Foreign Aid, 2013, in *The Geopolitics of Foreign Aid*, Edward Elgar Publishing, with Helen Milner
5. “Reply to Discussions of ‘Experimental Designs for Identifying Causal Mechanisms’” 2013, *Journal of the Royal Statistical Society, Series A*, 176(1), 46-49, with Kosuke Imai and Teppei Yamamoto
4. Neurological Imaging and the Evaluation of Competing Theories, 2011, in *Biology and Politics: The Cutting Edge*, Albert Somit and Steven Peterson (eds.), Emerald Group
3. “The Contested State of U.S. Foreign Policy: Liberal Internationalism and American Politics”, *H-Diplo*, roundtable, 11(4), 2011, with Stephen Chaudoin and Helen Milner
2. “Causal Mediation Analysis in R”, with Kosuke Imai, Luke Keele, and Teppei Yamamoto, 2010 *Advances in Social Science Research Using R*, Springer
1. “Experimental Evidence for Reputation Building and Deterrence”, with Barbara Walter in *Reputation and Civil War: Why Separatist Conflicts Are So Violent*, 2009, Cambridge UP
0. Review of “Reinventing Foreign Aid”, William Easterly (ed.), *Review of International Organizations*, 2009

## Working/Submitted Manuscripts

10. “The Effects of Naming and Shaming on Public Support for Compliance with International Agreements: An Experimental Analysis of the Paris Agreement”, with Mike Tomz, revisions requested

9. “Estimation and Inference on Nonlinear and Heterogeneous Effects”, with Marc Ratkovic
8. “Abstraction and Detail in Experimental Design”, with Ryan Brutger, Joshua D. Kertzer, Jonathan Renshon, Dustin Tingley and Chagai M. Weiss
7. “Sparse Multilevel Regression (and Poststratification (sMRP))”, with Max Goplerud, Shiro Kuriwaki, and Marc Ratkovic
6. “sparsereg: R package for Bayesian sparse regression”, with Marc Ratkovic and Shiro Kuriwaki
5. “Revolutionizing Teaching and Research with a Structured Debate Platform”, with Jacob Shapiro and Stephen Chaudoin
4. “The Enemy of my Enemy is not my Friend”: Arabic Twitter Sentiment Toward ISIS and the United States”, with David Romney, Amaney Jamal, and Robert Keohane, revisions requested
3. “Strategic Foundations of Economics and Politics: An Active Learning Approach”, book manuscript
2. “How does the UN Security Council influence public opinion”, with Mike Tomz
1. “The Economic and Political Influences on Different Dimensions of United States Immigration Policy”, with Helen Milner

## Software

### Causal Mediation Analysis

- [mediation](#) – R package for conducting causal mediation analysis and sensitivity analysis, version 4.4, with Teppei Yamamoto, Kentaro Hirose, Luke Keele, and Kosuke Imai, received Society for Political Methodology’s 2015 Statistical Software Award
- [mediation](#) – Stata package for conducting causal mediation analysis and sensitivity analysis, with Raymond Hicks

### Structural Topic Models and Visualization

- [stm](#) – R package for Structural Topic Model, with Margaret Roberts and Brandon Stewart, received Society for Political Methodology’s 2015 Statistical Software Award
- [stmCorrViz](#) – R package for hierarchical visualization of topic correlations, with Antonio Coppola, Margaret Roberts and Brandon Stewart
- [stmBrowser](#) – R package for browser based visualization of topic models, with Michael Freeman, Margaret Roberts and Brandon Stewart
- [stmgui](#) – R package for graphical user interface to STM package, with Dan Zangri and Brandon Stewart

### Variable selection

- [sparsereg](#) – R package for sparse and consistent Bayesian LASSO estimation, with Marc Ratkovic

### Text and other utilities

- [txtorg](#) – Python/pyLucene based package for document corpus management, indexing, and preparation for text analysis, with Christopher Lucas, and Alex Storer
- [translateR](#) – R package for automated access to Google and Microsoft Bing APIs for machine translation, with Christopher Lucas.
- [transcribeR](#) – R package for automated access to HP API for machine transcription, with Christopher Lucas, Dean Knox, Thomas Scanlan, Shiv Sunil, Michael May, Angela Su.



- [fakeR](#) – R package for generation of fake data set based on a real data set, with Lily Zhang
- [timelines](#) – R package plotting annotated timelines, grouped timelines, and exploratory graphics, with Dahee Lee
- [politeness](#) – R package for automated politeness detection in text, with Mike Yeomans and Alejandro Kantor

#### Educational

- [ABLConnect](#) – Web based platform for the collection, curation, and dissemination of active learning techniques
- [Syllabus Explorer](#) – Search and explore syllabi from throughout Harvard University
- [Harvard LINK](#) – Personalized dashboards for every Harvard faculty member covering research and teaching
- [HarvardDART](#) – **D**igital **A**ssets for **R**euse in **T**eaching. Web based platform for search, preview, and reuse of digital education assets including HarvardX
- [Socialize Remotely](#) – Web based platform for submitting and discovering opportunities for remote socialization at Harvard.
- **Harvard Environmental Learning Platform**, Web based platform for environment based teaching materials, with Harvard University Center for the Environment.

## Awards

Society for Political Methodology’s 2018 Statistical Software Award, stm (structural topic model) R package

American Political Science Association’s 2016 Gladys M. Kammerer Award for the best book published during the previous calendar year in the field of U.S. national policy (“Sailing the Water’s Edge”, with Helen Milner)

Society for Political Methodology’s 2016 Gosnell Prize for Excellence in Political Methodology (best work in political methodology presented at any political science conference during the preceding year), “Sparse Estimation and Uncertainty with Application to Subgroup Analysis”, with Marc Ratkovic

Best Conference Paper, Association for Computing Machinery: Learning at Scale 2106 “The Civic Mission of MOOCs: Measuring Engagement across Political Differences in Forums”, with Justin Reich, Brandon Stewart, and Kimia Mavon

Society for Political Methodology’s 2015 Statistical Software Award, mediation R package

Society for Political Methodology’s 2014 Gosnell Prize for Excellence in Political Methodology, “Structural topic models for open ended survey responses”

Invited to read “Experimental Designs for Identifying Causal Mechanisms” before the Royal Statistical Society Research Section, London, 2012

Mancur Olson Award for Best Political Economy Dissertation, honorable mention, 2011

Elizabeth Procter Fellowship (“Honorific”, campus wide fellowship competition), 2009-2010

Joseph P. O’Hern Award, University of Rochester (competitive award from Phi Beta Kappa for travel and study in Europe), 2001-2002

Jay F. Birdsall Award (Departmental award for practical politics both on campus and in the community), University of Rochester, 2001

## Grants

National Science Foundation, 2016, with Justin Reich, \$300,000

Weatherhead Center, Research Cluster in International Affairs, 2016, with David Keith and additional co-PI's, "Geo-engineering" \$250,000  
 Hewlett Foundation, 2015, with Justin Reich and Brandon Stewart co-PI's, "Computational Measures of Civic Engagement" \$50,000  
 Spencer Foundation, 2015, with Justin Reich and Brandon Stewart co-PI's, "Computational Measures of Civic Engagement" \$400,000  
 Weatherhead Center Medium Research Grant, 2014, \$25,000  
 Harvard Initiative on Learning and Teaching, Harvard University, 2013, for support of <http://ablconnect.harvard.edu> \$30,000  
 Clark award for research, from Dean of FAS, Harvard University, 2013  
 Harvard University Center for the Environment, \$45,000  
 Junior Faculty Development grant, Harvard Academy, \$7,500  
 PIIRS Program on Communicating Scientific Uncertainty, with Mike Tomz, \$30,000  
 Weatherhead Center Medium Research Grant, 2011, \$24,000  
 Bobst Center research grant, Princeton University, 2009, \$6,000  
 Niehaus Center for Globalization and Governance Fellowship, 2005-2007  
 Bobst Center research grant, Princeton University, 2007, \$5,000  
 Research Program on Political Economy research grant, Princeton University, 2006, \$1200  
 Institute for Humane Studies research grant, 2008, \$2000  
 EITM Summer Fellowship, Washington University at St. Louis, 2007  
 ICPSR Summer Fellowship, University of Michigan, 2002

## Teaching

### *Harvard University*

- Data Science Ready ([Offered through HarvardOnline/Harvard Business School Online](#))
- International Conflict and Cooperation (Undergraduate Lecture: GOV40); Online only version via Extension School (E-40, S-40)
- Experimental Political Science (Graduate: GOV2008)
- Domestic Politics and International Relations (Graduate: GOV2891; Undergraduate Lecture: GOV1782)
- Research Seminar in Domestic Politics and International Relations (GOV98dt)
- Research Workshop in International Relations (Graduate: GOV3005)
- Research Workshop in Political Economy (Graduate: GOV3007)

### *Empirical Implications of Theoretical Models*

- Master Fellow in Residence, [summer 2011](#) (University of Chicago), [summer 2012](#) (Princeton University), summer 2013 (University of California at Berkeley), summer 2014 MFR/Instructor (Duke), summer 2015 Instructor (Michigan, experimental methods), summer 2016 Instructor (Duke, machine learning and causal inference), summer 2017 Instructor (University of California at Berkeley, machine learning and causal inference), summer 2018 (Michigan), summer 2019 (Emory), summer 2020 Instructor/Organizer (Duke, cancelled)

### *Winter Experimental Social Science Institute, NYU Abu Dhabi*

- Lecturer on statistical and machine learning methods for experimentalists, 2015, 2016

### *Princeton University*

- Lead Instructor, Princeton University graduate student teacher training camp, 2007-2009

- Lead Instructor, Politics Department Math Camp, designed and taught 2 week course in linear algebra and calculus, 2008, 2009; course continues to be taught.
- Teaching Assistant, Politics Department, Theories of International Relations (Joanne Gowa), Introduction to International Relations (Edward Rhodes), 2006, 2007
- Tutor, Woodrow Wilson School Summer Program (micro-economics and statistics), 2007/2008

#### *University of Rochester*

- Teaching Assistant, American Politics (2000/2001) and International Relations (2001)
- Lead Instructor and course designer, “Understanding International Politics”, Rochester Scholars (summer camp for advanced high school students), 2002, 2003, 2004
- Created certificate program [Mathematical Modeling for Political Science and Economics](#)

#### *Darrow School*

- High School teacher, private boarding school, New Lebanon, NY; taught Statistics, Algebra, and Political Economy; dorm parent/sport coach, 2002–2004

#### *Short Courses*

- See EITM section above
- “[Unpacking the Black Box of Causality: Learning about Causal Mechanisms from Experimental and Observational Studies](#)”, 2012 APSA, with Luke Keele and Teppei Yamamoto (canceled due to hurricane), 2013 with Kosuke Imai
- Political Psychology and Experimental Political Science, 2013, IDC-Herzilya

#### *Other teaching/mentoring*

- Wintersession 2020, Harvard, “Politics and Climate Change”
- Center for American Political Studies, Harvard, “The thesis writing workflow: from questions to (maybe) answers”, annual, 2014-current
- National Science Foundation-Research Experiences for Undergraduate (NSF-REU) program (TRICAM-Applied Math), Advised and mentored 5 undergraduates per summer, summers 2015, 2016, 2017
- Harvard BLISS (Behavioral Laboratory in the Social Sciences) mentor, summer 2013 and 2017; Speaker, “Efficient Research Practices”, 2013, 2014, 2017, 2018

## **Professional Presentations**

### *Invited*

2021

Emory University, Harvard Weatherhead Forum, Princeton Niehaus Center

2020

edX Global Forum

2019

University of Pennsylvania Browne Center International Relations workshop, Stanford CASBSS, Harvard University IT Summit, Harvard Data Science Review Symposium

2018

Columbia Computational Social Science workshop (“Smart Universities”), EduSummit 2018, UCSD International Relations workshop, RinPharma conference, Harvard FAS IT conference (keynote)

2017

Yale International Relations workshop, VPAL Digital Education Challenges Conference (organizer), Brown University International Relations Workshop, UC-Berkeley International Relations workshop  
2016

Stanford University Online Learning Summit, Fudan University workshop on “Domestic Politics and Sino-US Relations”, Princeton University, Harvard Initiative on Learning and Teaching Conference, University of Illinois, University of Wisconsin  
2015

Washington University at St. Louis Political Economy workshop, University of Michigan IR workshop, University of Virginia IR workshop, Boston College Center for Teaching Excellence, NYU Hamilton Political Economy conference (keynote), Boston VA Hospital  
2014

UCSD IR/PS Workshop on Behavioral International Relations, MIT Methods Workshop, Harris School Political Economy Workshop, HarvardX Workshop, Princeton IR/Field Experiments Conference, Princeton Methods Workshop, Tsinghua University (China), Beijing Foreign Studies University (China), Texas A&M IR Workshop, Princeton Niehaus Center IR Workshop  
2013

EGAP, Columbia Comparative Workshop, Stanford Methods Workshop, NYU(x2), UT Austin IR Workshop, Princeton, IDC Herzliya, NCGG/GSPIA Goa India Conference, Northwestern MEDS, University of Kansas  
2012

Princeton, USC IR Workshop, Caltech Political Economy workshop, Columbia IR Workshop, BYU, Yale Leitner Center Political Economy, Yale IR Workshop, Cornell IR Workshop  
2011

Harvard Law School, Harvard JFK School, Vanderbilt, Princeton, Rutgers  
2010

University of Virginia, Washington University at St. Louis, Oxford, Princeton  
2009

Texas A&M, Harvard, William and Mary, University of Rochester  
2007-2008

NYU, CSDP (Princeton)

*Association Conferences (Panelist at all, C: chair, O: panel organizer, D: discussant)*

APSA, 2002, 2005 (O), 2006, 2007 (C,O), 2008 (O,D), 2009 (O), 2010, 2011 (C,O,D), 2012, 2013, 2014, 2015 (O), 2018, 2020

ISA, 2006 (O), 2007, 2008, 2009, 2010, 2012 (C,O,D)

MPSA, 2007, 2008 (C,O), 2009 (C), 2010 (O,D), 2013 (C,D)

Political Economy of International Organizations, 2015, 2021 (D)

International Political Economy Society (IPES), 2007, 2008, 2009, 2012

Political Methodology, 2009 (poster and paper), 2015 (paper), 2018 (paper)

Association of Politics and Life Sciences, 2004, 2005

Peter D. Watson Center, University of Rochester, 2002

## Conferences Organized

Teaching Data Science and Applied Statistics at Harvard, January 2019 (HILT Conference co-sponsored by Harvard Data Science Initiative and Institute for Quantitative Social Science)

RPharma (conference for R users in pharmaceutical industry), August 2018, with RStudio, Harvard Data Science Initiative and Institute for Quantitative Social Science

Emerging Challenges in Digital Higher Education, April 2017, with Daniel Seaton

What If? Machine Learning for Causal Inference, February 2016, with Cynthia Rudin, Sponsored by DARPA/ISAT

[Harvard Experimental Political Science Graduate Student Conference](#), 2016-2019 (student run)

Active Learning: From Evaluation to Practice, November 2014, with Robert Lue

[Negotiating Political Agreement](#), May 2013, with John Odell and Jane Mansbridge, Weatherhead Center and APSA funded Conference

[Frontiers in the Analysis of Causal Mechanisms](#), Spring 2012, with Teppei Yamamoto and Tyler VanderWeele, IQSS funded Mindich Conference  
[The Politics of Global Climate Change](#), February 2011, co-organizer, Princeton University's Niehaus Center for Globalization and Governance  
Graduate Student Conference on Experiments in Interactive Decision Making, November 2008, co-organizer

## Service

### Disciplinary

*Editorial Boards*: Journal of Politics (2014-), International Organization (2016-), Annual Review of Political Science (2018-), Journal of Experimental Political Science (2016-), Guest editor for Political Analysis (2016), Guest editor for Annual Review of Political Science (2017)

Executive Council, APSA Experimental Research Section

*Reviewing*: American Political Science Review, American Journal of Political Science, Amherst College Press, Annual Review of Political Science, British Journal of Political Science, Cambridge UP, China Quarterly, Climatic Change, Economics and Politics, Environmental Politics, European Journal of Political Economy, Global Environmental Change, Harvard Undergraduate Research Journal, International Interactions, International Organization, Journal of Experimental Political Science, Journal of Peace Research, Journal of Public Economics, Journal of Conflict Resolution, National Science Foundation, Journal of Research on Educational Effectiveness, Multivariate Behavioral Research, Nature Climate Change, One Earth, Oxford UP, Political Analysis, Political Research Quarterly, Political Psychology, Political Science Research Methods, Proceedings of the National Academy of Sciences, Quarterly Journal of Political Science, Research and Politics, Review of International Organizations, Review of International Political Economy, Science, Social Neuroscience, Sociological Methods and Research, Statistics, Politics, and Society, Technology Science, World Politics

*Award Committees* Political Methodology Statistical Software award (2019), International Organization Robert Keohane Award (2018/2019), Experimental Research Section best conference paper award (2018)

Editor (founding), [The Experimental Political Scientist](#), official newsletter APSA Experimental Section, Fall 2010-Spring 2013.

Co-chair (with John Odell), International Relations Working Group of the American Political Science Association 2013 Task force on Negotiating Agreements in Politics

[International Methods Colloquium](#), advisory board member

[Teaching, Research, and International Policy \(TRIP\) Project](#) survey advisory board member

Organized APSA panel on improving journal reviews by advanced graduate students and new Ph.D's, 2011, panel included leading journal editors and article for *PS: Political Science and Politics*

### University

Deputy Vice Provost for Advances in Learning, Harvard, September 2018-present

Faculty Director, [Harvard Initiative for Learning and Teaching](#), Harvard, August 2018-present

Faculty Director, [Vice Provost for Advances in Learning Research Group](#), September 2015-present

FAS Standing Committee on Public Service (fall 2014-current, co-chair 2018-current)

co-founder [ABLConnect](#)

Director, [Undergraduate Research Scholars Program](#), IQSS, November 2011-June 2018

Accessibility Steering Committee, August 2019-

Applied Mathematics concentration coordinator for Department of Government, August 2017 -2020

GSAS Business Intelligence Steering Committee, 2016-2107

Faculty Affiliate, Education Policy and Program Evaluation (EPPE), Harvard Ph.D. program in Education

Harvard Standing Committee on Higher Degrees in Political Economy and Government, 2012-current

Harvard Academic Technology Advisory Board, 2017-current

Digital Assets for Reuse in Teaching Advisory Board, 2017-2019  
Member, Standing Committee on Higher Degrees in Education, Harvard University, 2014-2016  
Member, FAS General education requirement review for quantitative reasoning, 2016-2017  
Truman Fellowship interview committee, Harvard University, 2012, 2013, 2014, 2015  
Harvard Division of Continuing Education Standing Committee (fall 2016-)  
Harvard University Center for the Environment Fellows selection committee, 2014, 2015, 2016, 2017, 2018, 2019, 2020  
Faculty chair, Harvard Experiments Working Group (graduate students) (fall 2014-)  
Mentor, Harvard Initiative on Learning and Teaching fellow, 2014  
Mentor, Harvard BLISS (Behavioral Laboratory in the Social Sciences), summer 2012, 2013, 2014, 2017  
Guest lecturer, FAS Research Administration Services, Data management and security, 2013, 2014  
Guest lecturer, Center for American Political Studies (CAPS), Undergraduate Thesis Workshop, 2014, 2015, 2016, 2017, 2018, 2019  
Orientation Speaker, Weatherhead Center, 2011, 2012, 2013, 2014  
HILT Conference speaker, Collaborative Learning, 2014  
Mentor and Judge, Harvard College Undergraduate Research Association, National Collegiate Research Conference, 2015  
Founded the [Research Reservoir](#), central location for data, coding, and each part of the research process  
Manager, Princeton Laboratory for Experimental Social Science, 2008-2009

### **Departmental**

Director of Graduate Studies, Harvard Government Department, July 2015-July 2018  
Co-director, Government Department Curriculum Committee, 2017-July 2018  
Government Department Strategic Planning Committee, 2016-July 2018  
Co-director, Government Department PhD Placement, July 2018-present  
Chair, Government Department Strategic Plan Implementation Committee, December 2017-present  
Harvard [Government Department Graduate Student Poster Session](#), fall 2011 (Inaugural organizer), 2012, 2014  
Harvard Government Department Search Committee, 2011-2012, 2012-2013, 2016-2017, 2017-2018, 2019-2020 (chair)  
Graduate Review Committee, Government Department, 2012-2103, 2013-2014, 2014-2015, 2016-2017  
Organized APSA @ Harvard, in lieu of 2012 APSA cancelation  
Coordinator, Princeton Political Methodology weekly speaker series, 2008-2009  
Coordinator, Cooperative Congressional Election Study (Princeton team), 2008, 2009  
Co-Captain, Leviathan, Politics Department summer softball team, 2007/2008, A-League Champions 2008  
Politics Department Graduate Council (2005, 2006)

### **Additional past affiliations**

Science and Technology Policy Research Unit, University of Sussex, Brighton, England,  
Training and Guided Study (TAGS) program, January-May 2002  
Peter D. Watson Center for Conflict and Cooperation, University of Rochester, Fellow, fall 2001

## **Dissertation Committees, graduated students**

Andrew Coe, 2012 Ph.D., University of Southern California  
Iain Osgood, 2013 Ph.D., University of Michigan  
Adam Chilton, 2013 Ph.D., University of Chicago Law School  
Margaret Roberts, 2014 Ph.D., University of California at San Diego

Yuri Zhukov, 2014 Ph.D., University of Michigan  
Shahrazad Sabet, 2014 Ph.D., University of Maryland  
Brandon Stewart, 2015 Ph.D., Princeton  
Cosette Creamer, 2016 Ph.D., University of Minnesota  
Robert Schub, 2016 Ph.D., University of Nebraska  
Christopher Lucas, 2018 Ph.D., Washington University at St. Louis  
Anton Strezhnev, 2018 Ph.D., University of Chicago  
Connor Huff, 2019 Ph.D., Rice University  
Max Goplerud, 2020 Ph.D., University of Pittsburgh  
David Romney, 2020 Ph.D., Brigham Young University