

# Joseph L. Sutherland

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## Academic Experience

- 2015–2017      Teaching Fellow  
Columbia University, Department of Political Science
- 2016–2017      Text Research Analyst  
Princeton University, Center for the Study of Democratic Politics

## Educational Background

- Ph.D.            Political Science, Columbia University, 2019 (exp.)  
                    Majors: *American Politics, Political Methodology (distinction)*  
                    Dissertation: *On the Comparison of Political Texts*  
                    Advisor: Robert Y. Shapiro
- M.Phil.         Political Science, Columbia University, 2018
- M.A.            Political Science, Columbia University, 2016
- A.B.            Political Science, Washington University in St. Louis, 2014

## Publications

1. “How Ideology Fuels Affective Polarization,” with Jon Rogowski. *Political Behavior*, 2016, 1-24.

## Presentations

1. “On the Comparison of Political Texts,” Department of Political Science, Penn State, 2018 (Scheduled).

2. "Mansplaining the Law: The Effect of Gender on Interruptions in Congressional Testimony," Text-as-Data Conference, University of Washington, 2018 (Scheduled).
3. "Introduction to Text-as-Data (Two-Day Workshop)," Data Science Connection, Atlanta, Georgia, 2018 (Scheduled).
4. "Are Governors More Likely to Keep Their Promises Under Unified Government? Agenda Speech and Legislative Outcomes," APSA State Politics and Policy, Penn State, 2018.
5. "Applying Artificial Intelligence and Machine Learning to Quantify Central Bank Sentiment," National Association of Business Economists, Seattle, Washington, 2017.
6. "Political Surrogates, Minimal Effects, and Campaign Dynamics in the 2012 Presidential Election," Department of Political Science, Columbia University, New York City, New York, 2017.
7. "Are Governors More Likely to Keep Their Promises Under Unified Government? Agenda Speech and Legislative Outcomes," Northeast Political Science Association, Philadelphia, Pennsylvania, 2017.
8. "Are Governors More Likely to Keep Their Promises Under Unified Government? Agenda Speech and Legislative Outcomes," APSA State Politics and Policy, St. Louis University, Missouri, 2017.
9. "Are Governors More Likely to Keep Their Promises Under Unified Government? Agenda Speech and Legislative Outcomes," Midwest Political Science Association, Chicago, Illinois, 2017.
10. "Introduction to R: How to Transition from STATA," Applied Statistics for Social Science, Columbia University, New York City, New York, 2017.
11. "Introduction to Text-as-Data," Graduate Student Methods Workshop, Columbia University, New York City, New York, 2017.
12. "Introduction to R and LaTeX," Graduate Student Orientation, Columbia University, New York City, New York, 2017.
13. "Introduction to Text-as-Data," Institute for Data Science, Columbia University, New York City, New York, 2016.
14. "Scaling the Tower of Babel: Divergent Policy Implications Among Translated and Native-Language Central Bank Communications," Computational Approaches to Social Modeling, Seattle, Washington, 2016.
15. "Microservice Architectures for Scalable Text Processing," Open Data Science, Boston, Massachusetts, 2016.
16. "Introduction to Text-as-Data," Graduate Student Methods Workshop, Columbia University, New York City, New York, 2016.
17. "Introduction to R and LaTeX," Graduate Student Orientation, Columbia University, New York City, New York, 2016.

18. “How I Learned to Let Go and Love Python,” Graduate Student Methods Workshop, Columbia University, New York City, New York, 2016.
19. “Send in the Clones? The Effect of Surrogates on Candidate Support,” Midwest Political Science Association, Chicago, Illinois, 2014. Recipient of the Antoinette Dames Prize for Outstanding Honors Thesis in Political Science.
20. “Send in the Clones? The Effect of Surrogates on Candidate Support,” National Council, Washington University in St. Louis, 2014.

### Working Papers

- “On the Comparison of Political Texts.” 2018.
- “Communication at Scale in Elections, and the Importance of Costly Signaling to Voter Mobilization” with Donald P. Green. 2018.
- “Have State Policy Agendas Become More Nationalized?” with Daniel M. Butler. 2018.
- “Mansplaining the Law: The Effect of Gender on Interruptions in Congressional Testimony,” with Michael Miller. 2018.
- “Are Governors More Likely to Keep Their Promises Under Unified Government? Agenda Speech and Legislative Outcomes.” 2017.

### Current Projects and Datasets

*State of the State Addresses, 1880–Present (SOTS)*, with Daniel M. Butler. In development, 2015–Present. Gubernatorial State of the State addresses, like small State of the Union addresses for each U.S. state, are demonstrative of the policy goals of the Governor and her party.

### Open Source Software

**doc2text:** Extract messy text blocks from images with computer vision.

- Open source software package that applies machine learning and computer vision to isolate, enhance, and extract text from hard-to-read documents. *doc2text* is different from other packages because it corrects for document layout problems with a novel statistical approach before running OCR, which results in significantly higher levels of accuracy. It gained notoriety as a top article on *Hacker News* and has been used for instructive purposes at Pennsylvania State University. This package is in the top 0.1% of projects on

GitHub, with more than 1,000 stars (akin to Facebook “likes”) and 50 forks.  
Link: <http://github.com/jlsutherland/doc2text>

**grunt-express-server:** Grunt task runs an Express server.

- Used widely by the MEAN-stack community to run Yeoman-generated applications. Manager since 2015. Link: <https://github.com/ericclemmons/grunt-express-server>

## Teaching Experience

Introduction to Text-as-Data (Graduate; Instructor), 2018

- Descriptive and causal inference using text, classical and statistical approaches to content analysis, stylometry, the vector space model, feature extraction, dimension reduction, classifiers, topic models, and selected newer topics.

Introduction to American Politics (Undergraduate; Justin Phillips), 2017

- Collective action problems, principal-agent problems, federalism, institutional history, public opinion, political behavior, elections.

Applied Statistics for Social Science (Undergraduate; Robert Shapiro), 2017

- Basic probability, sampling theory, causal modeling, survey research, ordinary least squares, data visualization, STATA, R.

The American Congress (Undergraduate; Gregory Wawro), 2016

- History, procedure, bicameralism, supermajoritarianism, committees, ideal point estimation, game theory (piv. pol.), parties, polarization, gridlock.

Topics in Politics: Politics and Artificial Intelligence (Undergraduate; Instructor)

- *Course in development.* At the intersection of politics and artificial intelligence is a fundamental transformation of our political processes. New technology has precipitously reduced the costs of voter engagement, district interaction, and labor, thereby upsetting the participatory, representative, and pluralistic equilibria which have to this day evolved at a leisurely rate. In this course, we will study how a reduction in the costs of collective action by way of artificial intelligence has changed the ways citizens interact with their political institutions, and consider what these trends imply for the future of our society.

## **Professional Affiliations & Activities**

American Political Science Association  
Midwest Political Science Association  
Northeast Political Science Association  
American Academy of Political Science  
American Finance Association  
American Association of Computing Machinery

## **Conference Attendance**

Workshop on the Computational Study of Law, *Discussant* (University of Virginia)  
Text as Data (Princeton, University of Washington)  
APSA State Politics and Policy (St. Louis University, Penn State)  
Conference on Real-World Impacts of Legal Text, *Discussant* (Princeton)  
Political Analytics (Harvard)  
American Political Science Association  
Midwest Political Science Association  
Northeast Political Science Association  
National Association of Business Economists (Seattle)

## **Referee Service**

*American Journal of Political Science*  
*Political Behavior*  
*Political Research Quarterly*

## **Administrative and Volunteer Service**

Organizer, Columbia University Graduate Methods Workshop, 2017–2018  
Ex-Officio Member, UEC, Washington University Board of Trustees, 2010–2011  
Data Science Advisor, Engineering Test Kitchen, Washington University, 2017  
Interim Planning Chair, Neuro Challenge Foundation Fashion Gala, 2012

### **Honors & Awards**

Honorable Mention, National Science Foundation GRFP, 2017  
Graduate Student Meeting Grant (\$2,000), Columbia University, 2017–2018  
Dissertation Development Grant (\$3,000 per year), Columbia University, 2016–2018  
Dean’s Fellow (highest honor conferred, \$76,513 per year), Columbia U., 2014–2018  
Antoinette Dames Prize for Outstanding Thesis in Political Science, 2014  
Experimental Research Grant (\$500), Washington University in St. Louis, 2013  
Washington University Undergraduate Research Grant, 2014  
Mortar Board National College Senior Honors Society, 2014  
Richard A. Gephardt Civic Scholarship (honors program, \$5,000 per year), 2011  
Friends of Washington University Scholarship (\$24,000 per year), 2010–2011  
Eliot Scholarship (\$24,000 per year), 2009  
Elizabeth Herman Scholarship (\$3,000), 2009  
Sarasota County, Florida, Volunteer of the Year, 2008