

# Christopher Lucas

CGIS K320, Institute for Quantitative Social Science  
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## EDUCATION

Harvard University, *Department of Government* Cambridge, MA  
A.M., Ph.D., Political Science 2018 (expected)  
Dissertation: *Methods for the Analysis of Audio-Visual Data in the Social Sciences*  
Committee: Gary King (chair), Dustin Tingley, Xiang Zhou

Lipscomb University, *Department of History, Politics, & Philosophy* Nashville, TN  
B.A., Political Science 2009  
Valedictorian, *summa cum laude*

## PUBLICATIONS

- [5] White, Ariel, Anton Strezhnev, Christopher Lucas, Dominika Kruszewska, and Connor Huff. “Investigator Characteristics and Respondent Behavior in Online Surveys.” *Journal of Experimental Political Science* (conditional acceptance).
- [4] King, Gary, Christopher Lucas, and Richard Nielsen. “The Balance-Sample Size Frontier in Matching Methods for Causal Inference.” *American Journal of Political Science* 61, no. 2 (2017): 473-489.
- [3] Lucas, Christopher, Richard A. Nielsen, Margaret E. Roberts, Brandon M. Stewart, Alex Storer, and Dustin Tingley. “Computer-Assisted Text Analysis for Comparative Politics.” *Political Analysis* 23, no. 2 (2015): 254-277.
- [2] Charnysh, Volha, Christopher Lucas, and Prerna Singh. “The Ties that Bind: National Identity Salience and Pro-Social Behavior Toward the Ethnic Other.” *Comparative Political Studies* 48, no. 3 (2015): 267-300.
- [1] Roberts, Margaret E., Brandon M. Stewart, Dustin Tingley, Christopher Lucas, Jetson Leder-Luis, Shana Kushner Gadarian, Bethany Albertson, and David G. Rand. “Structural Topic Models for Open-Ended Survey Responses.” *American Journal of Political Science* 58, no. 4 (2014): 1064-1082.

## WORKING PAPERS

- Lucas, Christopher. “A Model for Automated Video Classification in the Social Sciences.”
- Knox, Dean and Christopher Lucas. “A General Approach to Classifying Mode of Speech: The Speaker-Affect Model for Audio Data.”
- Knox, Dean, Christopher Lucas, and Justin de Benedictis-Kessner. “Words Don’t Fit the Picture: Using Computer Vision to Measure Speaker Sentiment in Videos.”
- Goplerud, Max, Dean Knox, and Christopher Lucas. “The Rhetoric of Parliamentary Debate.”
- King, Gary, Christopher Lucas, and Richard Nielsen. “MatchingFrontier: R Package for Automated Matching for Causal Inference.”

## AWARDS

- 2014 The Gosnell Prize for Excellence in Political Methodology, with Margaret Roberts, Brandon Stewart, Dustin Tingley, Jetson Leder-Luis, Shana Gadarian, Bethany Albertson, and David Rand, for “Structural Topic Models for Open-Ended Survey Responses.”

## **GRANTS External**

- 2015 Weiss Family Program Fund for Research in Development Economics, with Horacio Larreguy and John Marshall (\$24,160)  
J-PAL Political Economy and Governance Program, with Horacio Larreguy and John Marshall (\$59,560)

### **Internal**

- 2017 The Institute for Quantitative Social Science (\$850)  
The Institute for Quantitative Social Science (\$800)
- 2016 The Institute for Quantitative Social Science, with Connor Huff, Mayya Komisarich, Gabriel Malina, Shom Mazumder, David Romney, and Dustin Tingley (\$1,800)  
The Institute for Quantitative Social Science, with Max Goplerud and Dean Knox (\$3,000)  
The Center for American Political Studies, with Connor Huff and Ariel White (\$1,000)  
The Center for American Political Studies, with Connor Huff, Dominika Kruszewska, Anton Strezhnev, and Ariel White (\$1,000)  
The Center for American Political Studies (\$1,000)
- 2015 The Weatherhead Center for International Affairs, with Connor Huff and Shiro Kuriwaki (\$1,500)  
The Institute for Quantitative Social Science, with Connor Huff and Shiro Kuriwaki (\$1,800)  
The Institute for Quantitative Social Science (\$1,000)
- 2014 The Institute for Quantitative Social Science, with Connor Huff (\$2,000)  
The Weatherhead Center for International Affairs, with Connor Huff (\$4,000)  
The Center for American Political Studies, with Daniel J. Moskowitz (\$1,000)

## **CONFERENCES ORGANIZED**

- 2017 Harvard Experimental Political Science Graduate Student Conference II, with Connor Huff, Mayya Komisarich, Gabriel Malina, Shom Mazumder, David Romney, and Dustin Tingley
- 2016 Harvard Experimental Political Science Graduate Student Conference I, with Connor Huff, Shiro Kuriwaki, Dominika Kruszewska, and Dustin Tingley

## **PRESENTATIONS Invited Talks**

- 2017 Translational Data Science Workshop, University of Chicago  
International Methods Colloquium
- 2015 Department of Biostatistics, Harvard University  
Hewlett-Packard Big Data Conference  
New Faces in Political Methodology, Pennsylvania State University

### **Conference Presentations**

- 2017 APSA Annual Meeting  
PolMeth XXXIV  
MPSA Annual Conference  
University of Pennsylvania Political Science Graduate Student Conference
- 2016 APSA Annual Meeting  
PolMeth XXXIII  
MPSA Annual Conference  
Harvard Experimental Political Science Graduate Student Conference  
NYU-CESS Experimental Political Science Conference Poster Session
- 2014 APSA Annual Meeting
- 2013 APSA Annual Meeting  
PolMeth XXX  
MPSA Annual Conference  
NYU-CESS Experimental Political Science Conference
- 2012 PolMeth XXIX Poster Session

**SOFTWARE** AVNN: R Package for Video Classification with the AVNN. [under development]  
Lucas, Christopher

SAM: Feature Extraction and Analysis for Emotion Detection in Audio-Visual Data. [under development]  
Knox, Dean and Christopher Lucas

transcribeR: Automated Transcription of Audio Files Through the HP IDOL API.  
Lucas, Christopher, Dean Knox, Dustin Tingley, Thomas Scanlan, Shiv Sunil, Michael May, and Angela Su

MatchingFrontier: R Package for Calculating the Balance-Sample Size Frontier.  
King, Gary, Christopher Lucas, and Richard Nielsen

translateR: R bindings to the Google and Microsoft Translation APIs.  
Lucas, Christopher and Dustin Tingley

txtorg: Python-based program (GUI included) for processing large amounts of text data.  
Lucas, Christopher, Alex Storer, and Dustin Tingley

**TEACHING Course Instructor**

*Johns Hopkins University*

Text as Data

Topics: Topic Models, Naive Bayes, SVM, Word Embeddings, Neural Networks, Web Scraping, R, Python  
Summer 2017, *Adjunct Professor*

**Short Courses**

Advanced Quantitative Methodology (with Gary King)

Topics: OLS, GLMs, Matching, Text as Data

Summer 2017 (Peking University), *Co-Instructor*

Computational Modeling of Text for the Social Sciences

Topics: Text as Data, Topic Models, R

Spring 2017 (University of Milan), *Instructor*

**Teaching Assistant**

Statistics 107: Introduction to Business and Financial Statistics (Michael Parzen)

Topics: Bootstrap, Monte Carlo, OLS, Time Series, Neural Networks, R

Fall 2016, *Head Teaching Fellow*

Empirical & Mathematical Reasoning 13: Analyzing Politics (Kenneth Shepsle)

Topics: Social Choice Theory, Spatial Models, Collective Action, Legislative Models

Spring 2017, *Teaching Fellow*

Spring 2016, *Teaching Fellow*

Government 40: International Conflict and Cooperation (Amy Catalinac and Michael Hiscox)

Topics: Bargaining Model of War, Conflict, IOs, IPE

Spring 2015, *Head Teaching Fellow*

Government 1780: International Political Economy (Jeffrey Frieden)

Topics: Trade, Finance, Development, Immigration, Interest Groups

Fall 2014, *Head Teaching Fellow*

Government 1793: Media, Public Opinion and Foreign Policy (Matthew Baum)  
Topics: Opinion Formation, Institutions and the Media, News and War  
Spring 2014, *Teaching Fellow*

Government 20: Foundations of Comparative Politics (Stephen Levitsky)  
Topics: Democratization, Development, Conflict, Revolutions, Institutions, Civil Society  
Fall 2013, *Teaching Fellow*

**SERVICE Discipline**

Reviewer for:

*American Journal of Political Science, American Political Science Review, Conflict Management and Peace Science, Computational Statistics and Data Analysis, Journal of Peace Research, Political Analysis, Political Research Quarterly*

**University**

Government Department Representative, Graduate Student Council, 2014 - 2015

**Departmental**

Co-Coordinator, Harvard Experiments Working Group, 2014 - 2016

Co-Founder, Harvard Experiments Working Group, 2014

Senior Thesis Adviser, 2014 - 2015

Graduate Student Coordinator, Research Workshop in Comparative Politics, 2014 - 2015

Research Mentor, Center for American Political Studies, 2013 - 2014

Student Representative, Graduate Program Committee, 2012 - 2015