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## Jeffrey B. Arnold

### Employment

#### University of Washington

- Core Faculty Member, Center for Statistics and the Social Sciences, September 2014–*present*
- Assistant Professor, Political Science, January 2015–*present*
- Acting Assistant Professor of Political Science, September 2014–December 2015

#### Emory University

- Instructor, Political Science, September 2013–August 2014
- QuanTM Pre-doctoral Fellow, Institute for Quantitative Theory and Methods (QuanTM), January–May 2013

#### Federal Reserve Bank of New York

- Economist, Money and Payments Studies Function, 2007
- Assistant Economist, Money and Payments Studies Function, 2005–2006
- Research Associate, Payments Studies Function, 2004–2005

### Education

#### University of Rochester

- Ph.D. in Political Science, December 2015
- M.A. in Political Science, March 2012
- Dissertation: *Three Essays on Conflict and Financial Markets, and Political Methodology*
- Fields: Methodology, Game Theory, International Relations

#### Dartmouth College

- B.A. in Economics, and Government; *cum laude*; High Honors in Economics, June 2004

### Works

#### Published

- Lincoln A. Mullen, Kenneth Benoit, Os Keyes, Dmitry Selivanov, and Jeffrey Arnold “Fast, Consistent Tokenization of Natural Language Text,” *Journal of Open Source Software* 3, no. 23 (2018), doi:10.21105/joss.00655.
- Olivier Armandier, Jeffrey B. Arnold, and James J. McAndrews “Changes in the Timing Distribution of Fedwire Funds Transfers,” *Federal Reserve Bank of New York Economic Policy Review*, 2008, <http://www.newyorkfed.org/research/epr/o8v14n2/o8o9arma.html>.
- Kimmo Soramäki, Morten L. Bech, Jeffrey Arnold, Robert J. Glass, and Walter E. Beyeler “The Topology of Interbank Payment Flows,” *Physica A* forthcoming (2007).

Kimmo Soramäki, Morten L. Bech, Jeffrey Arnold, Robert J. Glass, and Walter E. Beyeler  
 “The Topology of Interbank Payment Flows,” *Federal Reserve Bank of New York Staff Reports*, no. 243 (March 2006), [http://www.newyorkfed.org/research/staff\\_reports/sr243.html](http://www.newyorkfed.org/research/staff_reports/sr243.html).

## Unpublished and Other

- Arnold, Jeffrey B. (2018) Quantitative Social Science: The R Tidyverse Code [Link from QSS site]
- Arnold, Jeffrey B. (2018) Exercise Solutions to R for Data Science
- Jeffrey B. Arnold, Aaron Erlich, Danielle F. Jung, and James D. Long “Covering the Campaign: Election Events in Emerging Democracies,” August 25, 2017.
- Jeffrey B. Arnold, Connor Gilroy, Daiki Hiramori, and Stephen Winkler “The Long-Term Effects of Gendered Language on Attitudes Toward Homosexuality,” 2018.
- Jeffrey B. Arnold, J. Tyson Chatagnier, and Gary Hollibaugh “Allegiance, Ability, and Achievement in the American Civil War: Commander Traits and Battlefield Military Effectiveness,” January 28, 2018, <https://s3.amazonaws.com/docs.jrnold.me/commander-traits-and-battlefields-military-effectiveness-20180128.pdf>.
- Jeffrey B. Arnold “Did Financial Markets Anticipate the Onset of the American Civil War?” November 4, 2015, [https://s3.amazonaws.com/docs.jrnold.me/Financial\\_Markets\\_and\\_Onset\\_of\\_the\\_American\\_Civil\\_War\\_2015-10-04.pdf](https://s3.amazonaws.com/docs.jrnold.me/Financial_Markets_and_Onset_of_the_American_Civil_War_2015-10-04.pdf).
- Jeffrey B. Arnold “Bayesian Change Points and Linear Filtering in Dynamic Linear Models Using Shrinkage Priors,” October 14, 2015, <https://s3.amazonaws.com/docs.jrnold.me/dlm-shrinkage-2015-10-14.pdf>.
- Jeffrey B. Arnold “Pricing the Costly Lottery: Financial Market Reactions to Battlefield Events in the American Civil War,” September 29, 2013, [https://s3.amazonaws.com/docs.jrnold.me/Pricing\\_the\\_Costly\\_Lottery\\_v\\_1\\_4.pdf](https://s3.amazonaws.com/docs.jrnold.me/Pricing_the_Costly_Lottery_v_1_4.pdf).
- “Leaders’ Prominence and Cultural Perspectives,” April 11, 2012, [https://s3.amazonaws.com/docs.jrnold.me/Arnold\\_Goemans\\_Leaders\\_Fame.pdf](https://s3.amazonaws.com/docs.jrnold.me/Arnold_Goemans_Leaders_Fame.pdf).
- Jeffrey B. Arnold “Producing Death: Modeling and Estimating the Technology of Combat,” April 9, 2012, [https://s3.amazonaws.com/docs.jrnold.me/Jrnold\\_Producing\\_Death\\_20130412.pdf](https://s3.amazonaws.com/docs.jrnold.me/Jrnold_Producing_Death_20130412.pdf).
- Jeffrey B. Arnold “In-N-Out of Civil War: A Hidden Markov Model of Civil War,” June 2, 2011, [https://s3.amazonaws.com/docs.jrnold.me/cwhmm\\_2011-06-02.pdf](https://s3.amazonaws.com/docs.jrnold.me/cwhmm_2011-06-02.pdf).

## Software

See <https://github.com/jrnold> for open-source software and ongoing projects.

## R packages on CRAN

ggthemes. Author, maintainer.  
 pollstR. Author, maintainer.  
 smss. Author, maintainer.  
 margins. Author.  
 tokenizer. Author.

## Other

qss-package, R package. Author.  
 lstbayes, LaTeX package. Author, maintainer.  
 stan-mode, Emacs package. Author.  
 stan-snippets, Emacs package. Author.  
 language-stan, Atom package. Author, maintainer.

## Conference Presentations

- Annual Meeting of the American Political Science Association, San Francisco, CA, August 31–September 1, 2017: “Covering the Campaign: The 2014 South African Presidential Election”.
- Annual Meeting of the Midwest Political Science Association, Chicago, IL, April 7–12, 2016: “Ideology, Appointments, and Battlefield Outcomes”, “Bayesian Change Points and Linear Filtering with Shrinkage Priors”.
- 2015 Meeting of the Peace Science Society, Oxford, MS, November 12, 2015. The American Civil War and International Relations workshop.
- 2014 Meeting of the Peace Science Society, Philadelphia, PA, October 9, 2014. Empirical Implications of the Bargaining Model workshop.
- Annual Meeting of the American Political Science Association, Chicago, IL, August 30, 2013.
- PolMeth XXX, Charlottesville, VA, July 18, 2013. “Modeling Changepoints by Time-Varying Parameters and Sparse Priors” (poster)
- Annual Meeting of the Midwest Political Science Association, Chicago, IL, April 12, 2013: “Pricing the Costly Lottery: Financial Market Reactions to Battlefield Events in the American Civil War”, “Producing Death: Estimating the Offense-Defense Balance from the Production Function of Battle Casualties”.
- 2011 Meeting of the Peace Science Society, Savannah, GA, October 26, 2012: “Pricing the Costly Lottery: Financial Market Reactions to Battlefield Events in the American Civil War”
- PolMeth XXIX, Raleigh, NC, 2012, July 19: “Pricing the Costly Lottery: Financial Market Reactions to Battlefield Events in the American Civil War” (poster)
- Annual Meeting of the Midwest Political Science Association, Chicago, IL, April 12–13, 2012: “Who Does History Remember? Using Wikipedia to Measure the Historical Reputation of Leaders”, “Producing Death: Modeling and Estimating the Technology of Conflict”.
- 2011 Meeting of the Peace Science Society, Los Angeles, CA, October 15, 2011: “Pricing the Costly Lottery: Financial Market Reactions to Battlefield Events in the American Civil War”
- 2011 Meeting of the American Political Science Association, Seattle, WA, September 2, 2011: “Destruction or Revelation? Estimating the Influence of Battles on Financial Market Expectations during the the American Civil War” (poster).

## Honors & Awards

- Star Lab Poster Award, The Star Lab, University of Rochester
- Star Lab Best Conference Presentation, The Star Lab, University of Rochester, 2011–2012
- APSA Annual Meeting Graduate Student Travel Grant, 2011
- Graduate Student Teaching Award, Department of Political Science, University of Rochester, 2011
- Sproull Fellowship, University of Rochester, 2007–2009
- John Carroll International Economics Scholar Prize for Outstanding Contribution, 2004
- James O. Freedman Presidential Scholar, Dartmouth College, 2004
- War and Peace Studies Fellow, John Sloan Dickey Center, Dartmouth College, 2003–2004
- James O. Freedman Presidential Scholar Research Assistant, Dartmouth College, 2002–2003

## Teaching

### Instructor

#### Graduate

- CS&SS/STAT 564: Bayesian Statistics University of Washington, Spring 2018. <https://uw-csss-564.github.io/2018/>
- POLS/CS&SS 503: Advanced Quantitative Political Methodology, University of Washington, Spring 2018. <https://uw-pols503.github.io/2018/>
- POLS/CS&SS 501: Advanced Political Research Design and Analysis, University of Washington, Winter 2017. <https://uw-pols501.github.io/2018/>
- CS&SS/STAT 564: Bayesian Statistics University of Washington, Spring 2017. <https://uw-csss-564.github.io/2017/>
- POLS/CS&SS 503: Advanced Quantitative Political Methodology, University of Washington, Spring 2017. <https://uw-pols503.github.io/2017/>
- POLS/CS&SS 501: Advanced Political Research Design and Analysis, University of Washington, Winter 2017. <https://uw-pols501.github.io/2017/>
- POLS/CS&SS 503: Advanced Quantitative Political Methodology, University of Washington, Spring 2016. <https://uw-pols503.github.io/2016/>
- POLS/CS&SS 501: Advanced Political Research Design and Analysis, University of Washington, Winter 2016. <https://uw-pols501.github.io/2015/>
- POLS/CS&SS 503: Advanced Quantitative Political Methodology, University of Washington, Spring 2015. <https://uw-pols503.github.io/2015/>

#### Undergraduate

- CS&SS/SOC/STAT 203: Statistical Concepts and Methods for the Social Sciences, University of Washington, Winter 2015.
- POLS 208: Political Science Methods. Emory University. Spring 2015.
- POLS 208: Political Science Methods. Emory University. Fall 2014.

### Short Courses

- Political Science Graduate Student Math Camp, Emory University. January 2015.

### Professional & Departmental Service

- Selection Committee, The Society of Political Methodology Statistical Software Award. Certified Instructor, Software Carpentry, 2016.
- Organizer, Center for Statistics and the Social Sciences (CSSS) Seminar, Fall 2014–Spring 2018.
- Organizer, International Studies Association (ISA) 2014 Working Group, “Forecasting International Events”, sponsored by The Scientific Study of International Processes Section (SSIP). With Curtis Signorino.
- Summer Workshop on Analysis of Military Operations and Strategy (SWAMOS). Saltzman Institute for War and Peace Studies, Columbia University, 2012.
- Reviewer: *Political Analysis*, *Conflict Management and Peace Science*, *International Interactions*, *International Studies Quarterly*
- Member: American Political Science Society, Midwest Political Science Society, Peace Science Society, Society for Political Methodology