

# David A. Armstrong II

## Curriculum Vitae<sup>1</sup>

### Contact:

Department of Political Science  
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### Positions:

2017-Present Canada Research Chair in Political Methodology  
Associate Professor of Political Science  
Associate Professor of Statistics and Actuarial Sciences (by courtesy)  
University of Western Ontario

2014-2016 Associate Professor of Political Science  
University of Wisconsin - Milwaukee

2009-2014 Assistant Professor of Political Science  
University of Wisconsin - Milwaukee

2006-2009 Pre-doctoral Fellow in Quantitative Methods  
University of Oxford, Department of Politics and International Relations

### Other Appointments:

2006-Present Instructor: Inter-university Consortium for Political and Social Research  
Summer Program in Quantitative Methods  
Regression III (2007-)  
R: Learning by Example (2015-)  
Introduction to R (2006, 2009-2014)  
Scaling and Dimensional Analysis, with Bill Jacoby (2011, 2013)

### Education:

Ph.D. in Government and Politics, University of Maryland (2009)  
B.A. in Political Science. University of Maine at Presque Isle (1998)

### Research Interests:

Quantitative Political Methodology, Measurement Theory and Latent Dimension Estimation, Democracy, Human Rights, Contentious Politics

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<sup>1</sup>Last Updated November 2, 2017

## **Publications - Books:**

Armstrong, David A., II, Ryan Bakker, Royce Carroll, Christopher Hare, Keith Poole and Howard Rosenthal. 2014. *Analyzing Spatial Models of Choice and Judgement With R*. Boca Raton, FL: CRC Press.

## **Publications - Refereed Articles:**

Hare, Christopher, David A. Armstrong II., Ryan Bakker, Royce Carroll and Keith Poole. 2015. "Using Bayesian Aldrich-McKelvey Scaling to Study Citizens Ideological Preferences and Perceptions" *American Journal of Political Science* 59(3): 759-774.

Jacoby, William G. and David A. Armstrong II. 2014. "Bootstrap Confidence Regions for Multidimensional Scaling Solutions" *American Journal of Political Science* 58(1): 264-278

Armstrong, David A., II. 2013. "factorplot: Improving Presentation of Simple Contrasts in Generalized Linear Models" *The R Journal* 5(2): 4-15.

Armstrong, David A., II. 2011. "Stability and Change in Political Rights and Civil Liberties" *Journal of Peace Research* 48(5): 653-662.

Davenport, Christian, Sarah A. Soule and David A. Armstrong II. 2011 "Protesting While Black? The Differential Policing of American Activism, 1960 to 1990" *American Sociological Review* 76(1): 152-176.

Duch, Raymond M., Jeff B. May and David A. Armstrong II. 2010. "The Coalition-Directed Vote in Contexts with Multi-party Governments" *American Political Science Review* 104(4): 698-719.

Armstrong, David A., II and Raymond M. Duch. 2010. "Why Can Voters Anticipate Post-Election Coalition Formation Likelihoods" *Electoral Studies* 29(3):308-315.

Armstrong, David A., II. 2009. "Measuring the Democracy-Repression Nexus" *Electoral Studies* 28(3): 403-412.

Davenport, Christian and David A. Armstrong II. 2004. "Democracy and the Violation of Human Rights: A Statistical Analysis from 1976-1996" *American Journal of Political Science* 48(3): 538-554.

Gimpel, James G., Irwin L. Morris and David A. Armstrong II. 2004. "Turnout and the Local Age Distribution: Examining Political Participation across Space and Time" *Political Geography* 23: 71-95.

## **Publications - Other:**

Armstrong, David A. II and Christian Davenport. 2008. "Six Feet Over: Internal War, Battle Deaths and the Influence of the Living on the Dead." In Stephen M. Saideman and Marie-Joelle Zahar, eds. *Insecurity in Intra-State Conflicts: Governments, Rebels, and Outsiders*. London: Routledge

Understanding Untouchability: A Comprehensive Study of Practices and Conditions in 1589 Villages. (Multiple Authors)

Report published by the Robert F. Kennedy Center for Justice & Human Rights  
Available at <http://www.rfkcenter.org/untouchability>

## **Grants and Awards:**

Canada Research Chair in Political Methodology

Tier II, 5-years, \$500,000

Social Sciences and Humanities Research Council (Canada)

"Big Data, Hypothesis Testing and the Future of Quantitative Social Science"

Insight Development Grant, \$ 49,915 (2-year project)

Social Sciences and Humanities Research Council (Canada)

"The Cost of Contention: Comprehensively Understanding the Impact of State and/or Challenging Behavior" (PI-Christian Davenport)

Social Science Research Council of Norway (Total: \$2.2M, My portion: \$145,000)

## **Teaching Experience:**

Western University

Introduction to Statistics (POLISCI 4419F/9715A UG/G)

Quantitative Methods in Political Science (POLISCI 9591B, G)

University of Wisconsin - Milwaukee

Introduction to Pol Sci Research (POL SCI 203, UG)

Comparative Political Systems (POL SCI 335, UG, online and Face-to-face)

Techniques of Political Science Research (POLSCI 701, G)

Adv. Techniques of Political Science Research (POLSCI 702, G)

Seminar in Advanced Political Science Methodology (POLSCI 935, G)

Applied Bayesian Modeling for the Social Sciences (POLSCI 936, G)

Inter-University Consortium for Political and Social Research (ICPSR) Summer Program

Measurement, Scaling and Dimensional Analysis [with Bill Jacoby] (2011, 2013)

Regression III: Advanced Methods (2007-present)

Introduction to R (2006 [with Ryan Bakker],2009-2014)

R: Learning by Example (2015-present)

## Teaching Experience, continued:

Essex Summer School in Social Science Data Analysis

Improving Regression Analysis (2008)

Dimension Reduction in R (2015)

University of Oxford:

Advanced Statistics with Ray Duch (Trinity Term 2009)

Measurement in the Social Sciences (Trinity Term 2007, 2008, 2009)

Quantitative and Formal Methods in IR (Hilary Term 2009)

Intermediate Social Statistics (Hilary Term 2007, 2008, 2009)

Applied Statistics for the Social Sciences (Michaelmas Term 2006, 2007)

## Invited Presentations and Workshops:

“Big Data and the Future of Quantitative Social Science”

Department of Statistics and Actuarial Sciences Colloquium

Western University, April 20, 2017.

“Data Visualization” Workshop

Florida State University, May 5-6, 2016

“Introduction to R: Basics, Visualization and Text Analysis” Workshop

University of Wisconsin-Milwaukee (Digital Humanities Lab), April 3, 10 and 24, 2015

“Bayesian Analysis and Data Visualization” Workshop

Florida State University, May 6-9, 2013 (with Ryan Bakker)

“Communicating Statistical Results: Effective Presentation of Relationships and Effects”

The Oxford Spring School, April 16-20, 2013 (with Bob Andersen)

“A Directional Model of Candidate Evaluation” with Bill Jacoby

Presented at the “Directions in Political Space” Conference

ICPSR, University of Michigan, October 26, 2012.

“Causal Mechanisms and the Democracy-Repression Nexus”

ETH-Zurich, CIS Colloquium, October 4, 2012.

“An Introduction to R” Center for Applied Behavioral Health Research,

University of Wisconsin-Milwaukee, June 5-6, 2012.

“Communicating Statistical Results: Effective Presentation of Relationships and Effects”

The Oxford Spring School, April 4-8, 2011 (with Bob Andersen)

“An Introduction to R” Center for Addiction and Behavioral Health Research,

University of Wisconsin-Milwaukee, June 15-16, 2010.

“An Introduction to R” University of Maryland - College Park, May 24-26, 2010.

“The Unexpected Effects of Elections on Repression” Innovations in the Study of Mass Violations of Human Rights, University of Notre Dame, April 12-13, 2010.

## Invited Presentations and Workshops, continued:

- “Modern Regression Analysis” The Oxford Spring School, March 15-19, 2010  
(with Bob Andersen)
- “Structural Equation Models for Panel Data” The Oxford Spring School, March 26, 2009
- “The Analysis of Large-N Comparative Data” Oxford Spring School Workshop  
(with Raymond Duch), September 30, 2008
- “An Introduction to  $\mathbf{R}$ ” Oxford Spring School Workshop September 29, 2008.
- “Reconsidering the Democracy-Repression Nexus” *Nuffield Political Science Seminar Series*. Nuffield College, University of Oxford, May 6, 2008.
- “A Strategic Ideological Vote” (with Ray Duch and Jeff May) at the *Theoretical and Empirical Contributions to Modeling Context in the Vote Decision Conference*. Nuffield College, University of Oxford, June 1-2, 2007.
- “Remeasuring Left-Right: Measurement and Manifesto-Based Party Placements”  
(with Ryan Bakker). Vrije Universiteit, Amsterdam. December 8, 2006.

## Professional Service:

Editorial Board Member: *American Journal of Political Science* (2014-)  
Advisory Board Member: ICPSR Summer Program in Quantitative Methods (2013, 2017)

Manuscript Reviewer: *American Journal of Political Science*, *American Political Science Review*, *British Journal of Political Science*, *International Studies Quarterly*, *Journal of Conflict Resolution*, *Journal of Peace Research*, *Journal of Politics*, *Political Analysis*, *Political Psychology*.

## Departmental Service:

Dissertation Committee Chair:

- 2016: Michael Hansen
- 2017: Kelly Gleason
- In Progress: Nick Davis

Dissertation Committee Member:

- 2010: Craig Frizzell
- 2012: David Helpap
- 2013: Joe Cera, Youngmi Choi, Clayton Clouse, Aaron Weinschenk
- 2014: Sky Amman, Hayam Kim, Tim Lynch, Michael Tyburski, Zach Wallander
- 2015: Cassio Muniz, Shawn Fettig
- 2016: Wondeuk Cho, Leanne Freeman (Ed Psych)
- 2017: Jennifer Clemens
- In Progress: Jeremy Roberts

## Departmental Service, continued:

### Dissertation External Examiner:

- 2012: Florian Weiler (ETH-Zurich)
- 2016: Michael Dickerson (Brown University)
- 2017: Anthony Sealey (University of Toronto)

### Master's Committee Chair

- 2010: Paul Lasswell
- 2012: Nick Davis, Dale Pinzino
- 2013: Scott Dettman, Rebekah Wilberg
- 2014: Ryan Lynch
- 2015: Paul Larson
- 2016: Chris Schwarz
- 2018: Berent Batur (American Studies)

### Master's Committee Member

- 2010: Sky Amman, Margaret DeVito, BethAnn Hoover, Matt Luttig, Andrew Schmidt, Zach Wallander, Stefan Wojcik
- 2011: Benjaman Schmidt, Steven Thunander
- 2012: Stephen Baird, Michael Hansen, Seng Vang
- 2013: James Gorman
- 2014: Carisa Bergner, Justin Panawash-Bielinski
- 2015: Gayeon Ryu, Anthony Sudarmawan
- 2016: Kali Marcino
- 2017: Elisha Corbett (MA Thesis Internal Examiner)

### Departmental Committees (Western University):

- Graduate Committee: 2017-
- Appointments Committee: 2017-
- Departmental Promotion & Tenure Committee: 2017-
- Departmental Speaker Series Committee: 2017-

### University Committees (Western University):

- Non-medical Research Ethics Board: 2017-

### Departmental Committees (UW-Milwaukee):

- Director of Undergraduate Studies: 2015-2016
- Graduate Studies Committee: 2010-2016
- Comparative Politics Prelim Exam Committee: 2010-2016
- Search Committees: Comparative (2012), American (2013)

## Recent Conference Activity:

Chair of panel on Domestic Politics at the conference - “South Korea’s Rise: Politics, Economics and Humanities”, May 1, 2013, University of Wisconsin - Milwaukee.

“(Un)Just Repression and mass (Resistance/)Acquiescence: 911, Countering Threats and the Anti-US Patriot Act Movement” Presented at the annual meeting of the Midwest Political Science Association, April 2013.

“Causal Mechanisms and the Democracy-Repression Nexus” Presented at the annual meeting of the Midwest Political Science Association, April 2012.

“The Unexpected Effect of Elections on Repression.” Presented at the Annual Meeting of the Midwest Political Science Association, April 2011.

“Bootstrap Confidence Regions for Multidimensional Scaling Solutions” with Bill Jacoby. Accepted for presentation at the Annual Meeting of the Midwest Political Science Association, April 2011.

“Missing Data and the Gibbs Sampler: A Simple Approach to Estimating Models With Missing Data.” with Ryan Bakker. Presented at the Annual Meeting of the Midwest Political Science Association, April 2010.

“Kramer Revisited: Comparing the Effect of Economic Attitudes and the Real Economy on Vote Choice” with Raymond M. Duch. Presented at the Annual Meeting of the Midwest Political Science Association, April 2010.

## Software:

- `bsmds` - R package to perform, summarize and present bootstrapped multidimensional scaling solutions (written with Bill Jacoby). We implement a non-parametric bootstrapping algorithm for multidimensional scaling solutions and permit the user to plot two-dimensional configurations with either normal-theory confidence ellipses or convex hulls. (source code available now upon request.)
- `DAMisc` - R package of miscellaneous functions to support my teaching. This package includes functions to aid in the presentation and interpretation of generalized linear and related models. Version 1.2 of the package is available on the Comprehensive R Archive Network
- `factorplot` - R package to help visualize pairwise comparisons from a multiple testing procedure (e.g., polytomous factors used in GLMs). This is another solution to the reference category problem (other solutions to the same problem are quasi/floating variances and compact letter displays). Version 1.1-1 is available on CRAN.

- hot.deck - R package to perform multiple hot-deck imputation as discussed by Cranmer and Gill (2013). Written with Skyler Cranmer, Jeff Gill, Natalie Jackson and Andreas Murr. Version 1.0 available on CRAN.