

Law Building, Museum Avenue  
Cardiff CF10 3AX  
United Kingdom

+44 7908 490980  
[WarnerZ@cardiff.ac.uk](mailto:WarnerZ@cardiff.ac.uk)  
[zachwarner.net](http://zachwarner.net)





## Academic Appointments

Purdue University, Assistant Professor of Political Science and Data Science, 2021-  
Cardiff University, Postdoctoral Research Fellow in the Centre for Political and Legal Analytics, 2018-2021




## Education

Ph.D. Political Science, University of Wisconsin–Madison, 2018  
Junior Visiting Scholar (predoctoral), Nuffield College, University of Oxford, 2015-2016  
M.A. Political Science, University of Wisconsin–Madison, 2013  
M.Phil. Development Studies, University of Cambridge, 2011  
B.A. International Studies, Johns Hopkins University, 2010

## Publications

4. “Affluence and Congruence: Unequal Representation Around the World” (with Noam Lupu). Forthcoming at the *Journal of Politics*. 
3. “How to Get Better Survey Data More Efficiently” (with Mollie J. Cohen). Forthcoming at *Political Analysis*. 
2. “A New Measure of Congruence: The Earth Mover’s Distance” (with Noam Lupu and Lucía Selios). 2017. *Political Analysis* 25 (1): 95-113. 
1. “Mass-Elite Congruence and Representation in Argentina” (with Noam Lupu). 2017. In *Malaise in Representation in Latin American Countries: Chile, Argentina, Uruguay*, eds. Alfredo Joignant, Mauricio Morales, and Claudio Fuentes. New York: Palgrave Macmillan, pp. 281-302. 

## Research in Progress

11. *Divide to Rule: Coalition Bargaining and the Architecture of Government* (book manuscript). In preparation.
10. “Conditional Relationships in Dynamic Models.” Under review. 
9. “Divide to Rule: Deconcentration and Coalition Bargaining.” Under review. 
8. “Presidents Reward Swing Counties by Protecting their Soldiers during War” (with Douglas B. Atkinson, Kevin Fahey, and René Lindstädt). Under review.
7. “Why Are the Affluent Better Represented Around the World?” (with Noam Lupu). Under review. 
6. “Perceptions of Uncertainty” (with Michael DeCrescenzo and Benjamin Toff). Two experiments fielded, another experiment in nationally-representative survey to be fielded in late 2019.
5. *simic*: Simulating and Measuring Ideological Congruence. R package in beta testing (with Kevin Fahey and René Lindstädt).
4. “Measuring Ideological Congruence” (with Kevin Fahey and René Lindstädt). In preparation.

3. “Detecting Election Irregularities with Machine Learning for Visual Data” (with Christian Arnold, J. Andrew Harris, and Michelle Brown of the National Democratic Institute). ESRC grant awarded (£17,400).
2. fastEMD: A fast computation of the Earth Mover’s Distance. R package under development (with Andy Eggers).
1. “Measuring Distributional Distance” (with Andy Eggers). In preparation.

## **Conference Activity**

10. Images as Data Workshop, Trinity College Dublin: 2020
9. Midwest Political Science Association annual meeting: 2020
8. AI UK, Turing Institute: 2020
7. Unequal Representation and Its Underlying Mechanisms Workshop, University of Amsterdam 2019
6. Society for Institutional and Organizational Economics, 2017
5. American Political Science Association annual meeting: 2016, 2017, 2018, 2019, 2020
4. European Political Science Association annual meeting: 2016, 2020
3. Nuffield College Graduate Student Conference: 2016
2. Political Studies Association Methods Conference: 2016, 2018
1. Society for Political Methodology annual meeting: 2015, 2016, 2017, 2020

## **Awards, Grants, & Fellowships**

10. Cardiff GCRF Impact Accelerator Award (£4,985), “Detecting Election Regularities with Machine Learning for Visual Data,” with Christian Arnold, J. Andrew Harris, and Michelle Brown, in partnership with the National Democratic Institute, 2020
9. ESRC grant (£17,400), “Detecting Election Regularities with Machine Learning for Visual Data,” with Christian Arnold, J. Andrew Harris, and Michelle Brown, in partnership with the National Democratic Institute, 2018–
8. University Fellowship, University of Wisconsin–Madison, 2012–2017
7. Summer Initiative Funding, University of Wisconsin–Madison Political Science, 2013, 2014, 2015, 2016, 2017
6. APSA Class & Inequality Section Graduate Travel Grant, 2016
5. Election Research Center Conference Funding, 2016
4. National Science Foundation graduate travel funding, 2015
3. Foreign Language and Area Studies (FLAS) Award, 2013–2014 (declined)
2. Foreign Language and Area Studies (FLAS) Summer Award, 2013
1. Distinction, M.Phil. dissertation, University of Cambridge, 2011

## Teaching

Cardiff University:

6. The Power and Politics of Research Methods (undergraduate), *Co-instructor*, 2020
5. Research Methods (graduate), *Invited Lecturer* on causal inference, 2020
4. Research Methods Symposium (graduate), *Invited Lecturer* on causal inference, 2020
3. Data Science (undergraduate), *Chair of the Programme Development Team* and *Co-Developer* of six data science modules/courses, 2018-2020
2. Research Methods Symposium (graduate), *Invited Lecturer* on quantitative methods, 2018
1. Research Methods Symposium (graduate), *Invited Lecturer* on qualitative and digital methods, 2018

University of Wisconsin–Madison:

3. Introduction to American Politics (undergraduate), *Teaching Assistant*, 2013
2. The Politics of Sport (undergraduate), *Grader*, 2013
1. African International Relations (undergraduate), *Teaching Assistant*, 2012

Additional Teaching:

2. Bowdoin College, Africa Since 1880 (undergraduate), *Invited Lecturer* on Nigeria's Mid-West Movement, 2017
1. Vanderbilt University,  $\LaTeX$  Workshop (graduate), *Invited Lecturer* on beginning  $\LaTeX$ , 2017

## Professional Service

Cardiff University:

4. *Chair*, Data Science Programme Development Team, Cardiff University, 2018–
3. Equality, Diversity, and Inclusion (EDI) committee, 2018–
2. Athena Swan application subcommittee of the EDI, 2018–
1. National Student Survey strategy team, 2018–

University of Wisconsin–Madison:

3. *Coordinator*, Political Economy Colloquium, 2014-2015
2. *Co-Coordinator*, Political Behavior Research Group, 2014-2015
1. *Student Representative*, Computer Services Committee, 2014-2015

Additional Service:

5. Referee for the *British Journal of Political Science*, *Comparative Political Studies*, the *European Journal of Political Research*, the *Hague Journal of Diplomacy*, the *Journal of Politics*, *Political Analysis*, *Political Research Quarterly*, and *International Studies Quarterly*
4. Member/affiliate of APSA, EPSA, PSA, and the Elections Research Center at the University of Wisconsin–Madison

3. *Member*, Leadership Transition Committee of the APSA Class and Inequality Section, 2020
2. *Chair*, Conference Committee of the APSA Class and Inequality Section, 2017-2018
1. *Web Admin*, African Politics Conference Group, 2013-2014

## Consulting

Latin American Public Opinion Project at Vanderbilt University, 2016-  
 HM Prison and Probation Service Wales, 2018  
 HM Department for International Development (Policy Division, Politics and the State Team), 2009

## Other Research Experience

6. University of Wisconsin–Madison, *Project Assistant* to Nils Ringe (European Union, linguistic preferences), 2016
5. University of Wisconsin–Madison, *Project Assistant* to Rikhil Bhavnani (India, mobilization, development), 2013-2016
4. University of Wisconsin–Madison, *Project Assistant* to John Ahlquist (methodology, maximum likelihood), 2014-2015
3. University of Wisconsin–Madison, *Project Assistant* to Noam Lupu (voting behavior, electoral institutions), 2013-2014
2. University of Wisconsin–Madison, *Project Assistant* to Mark Copelovitch (financial crises), 2013-2014
1. Bowdoin College, *Research Assistant* to Olufemi Vaughan (Nigeria, state formation, religious and legal institutions), 2011-2013

## Skills

Software: L<sup>A</sup>T<sub>E</sub>X, R, Stata, Python, Stan, JAGS, SurveyToGo, QGIS, Bash, Linux, Git, Slurm  
 Languages: English (native), Spanish (Intermediate), Japanese (beginner), Yorùbá (beginner)

## References

John Ahlquist  
 Associate Professor  
 School of Global Policy and Strategy  
 University of California, San Diego  
[jahlquist@ucsd.edu](mailto:jahlquist@ucsd.edu)

René Lindstädt  
 Professor and Head of School  
 Department of Political Science  
 University of Birmingham  
[rene.lindstaedt@gmail.com](mailto:rene.lindstaedt@gmail.com)

Scott Gehlbach  
 Professor  
 Department of Political Science  
 University of Chicago  
[gehlbach@uchicago.edu](mailto:gehlbach@uchicago.edu)

Noam Lupu  
 Associate Professor  
 Department of Political Science  
 Vanderbilt University  
[noam.lupu@vanderbilt.edu](mailto:noam.lupu@vanderbilt.edu)