

Alexander Herzog, Ph.D.

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EMPLOYMENT

Clemson University , Lecturer, School of Computing Research Scientist, Data Intensive Computing Ecosystems (DICE) Lab	2017–present
Clemson University , Postdoctoral Researcher and Professor of Practice School of Computing, Data Intensive Computing Ecosystems (DICE) Lab, Social Analytics Institute	2014–2017
London School of Economics , Postdoctoral Fellow Department of Government	2012–2014

EDUCATION

New York University , Ph.D. Political Science <i>Dissertation</i> : Public Policy in Cabinet Governments <i>Committee</i> : Michael Laver, Howard Rosenthal, Joshua Tucker	2006–2012
University of Mannheim , Germany, Diplom in Social Sciences	2002–2006
University of Konstanz , Germany, Vordiplom in Public Policy and Management	2000–2002

ADDITIONAL TRAINING & VISITING POSITIONS

Big Data Infrastructure and Industry Applications (lecture) School of Computing, Clemson University	Fall 2014
Empirical Implications of Theoretical Models (summer school), UC Berkeley	June/July 2010
Trinity College Dublin, Ireland, Visiting Researcher	2009–2010

PUBLICATIONS

Peer-Reviewed Articles

Brandon Posey, Christopher Gropp, Boyd Wilson, Boyd McGeachie, Sanjay Padhi, Alexander Herzog, and Amy Apon. Addressing the challenges of executing a massive computational cluster in the cloud. In *Proceedings of the 18th Annual IEEE/ACM International Symposium in Cluster, Cloud, and Grid Computing (CCGrid 2018)*, 2018.

Neela Avudaiappan, Alexander Herzog, Sneha Kadam, Yuheng Du, Jason Thatcher, and Ilya Safro. Detecting and summarizing emergent events in microblogs and social media streams by dynamic centralities. In *Proceedings of the 2017 IEEE International Conference on Big Data*, 2017.

Yuheng Du, Alexander Herzog, Andre Luckow, Ramu Nerella, Christopher Gropp, and Amy Apon. Representativeness of latent Dirichlet allocation topics estimated from data samples with application to Common Crawl. In *Proceedings of the 2017 IEEE International Conference on Big Data*, 2017.

Alexander Herzog and Slava Mikhaylov. Database of parliamentary speeches in Ireland, 1919-2013. In *Proceedings of the 1st IEEE International Conference on the Frontiers and Advances in Data Science*, 2017.

Brandon Posey, Christopher Gropp, Alexander Herzog, and Amy Apon. Automated cluster provisioning and workflow management for parallel scientific applications in the cloud. In *Proceedings of the 10th Workshop on Many-Task Computing on Clouds, Grids, and Supercomputers (MTAGS)*. Workshop held in conjunction with the 2017 International Conference for High Performance Computing, Networking, Storage and Analysis, 2017.

Benjamin E. Lauderdale and Alexander Herzog. Measuring political positions from legislative speech. *Political Analysis*, 24(3):374–394, 2016.

Alexander Herzog and Kenneth Benoit. The most unkindest cuts: speaker selection and expressed government dissent during economic crisis. *Journal of Politics*, 77(4):1157–1175, 2015.

Alexander Herzog and Joshua A. Tucker. The dynamics of support: the winners-losers gap in attitudes towards EU membership in post-communist countries. *European Political Science Review*, 2(2):235–267, 2010.

Franz Urban Pappi, Alexander Herzog, and Ralf Schmitt. Koalitionssignale und die Kombination von Erst- und Zweitstimme bei den Bundestagswahlen 1953 bis 2005 [Coalition signals and the combination of first and second vote in Bundestag elections 1953 to 2005]. *Zeitschrift für Parlamentsfragen*, 37(3):493–513, 2006.

Franz Urban Pappi, Axel Becker, and Alexander Herzog. Regierungsbildung in Mehrebenensystemen: zur Erklärung der Koalitionsbildung in den deutschen Bundesländern [Government formation in multilevel systems: explaining coalition building in the German Länder]. *Politische Vierteljahresschrift*, 46(3):432–458, 2005.

Book Chapters

Kenneth Benoit and Alexander Herzog. Text analysis: estimating policy preferences from written and spoken words. In Jennifer Bachner, Kathryn Wagner Hill, and Benjamin Ginsberg, editors, *Analytics, Policy and Governance*, pages 137–159. Yale University Press, 2017.

GRANTS AND AWARDS

2018:

- Clemson’s “National Scholars Program Award of Distinction” (awarded by graduating National Scholars to faculty and staff who have served as significant mentors)

2017:

- BMW, Research grant, Analyzing Heterogeneous Sources of Textual Data for Understanding Customer Sentiment (PI), \$50,000
- BMW, Research grant, Natural Language Understanding for Customer Feedback Analysis (PI), \$60,000
- NVIDIA, 2 Tesla P100 GPU for building a deep-learning infrastructure (\$15,000 in-kind)

2016:

- Amazon Web Services (AWS), \$29,300 in-kind grant for cloud computing
- Winner of the Irish Political Studies Best Paper Prize for the 2016 Annual Conference of the Political Studies Association of Ireland (with Liam Weeks, Mícheál O Fathartaigh, and Slava Mikhaylov)
- Irish Research Council New Foundations Scheme (Co-PI; with Liam Weeks and Slava Mikhaylov), *"A quantitative text analysis of the 1921 Anglo-Irish Treaty debates"*, €10,000

2015: Clemson CBBS One Year Accelerate grant (Co-PI; with Jason Thatcher, Ilya Safro, and Linh Ngo), *"Constructing concise and accurate knowledge bases for data-driven social inquiry"*, \$15,921

2013: LSE Seed Fund (PI), £6,085

2012: American Political Science Association Travel Grant

2008: Conference Travel Award, Graduate School of Arts and Science, NYU

2007–2011: Summer Fellowship, Department of Politics, NYU

2006–2011: MacCracken Fellowship, Graduate School of Arts and Science, NYU

INVITED TALKS

2017:

- Department of Political Science, University of South Carolina
- Rhetorics, Communication, and Information Design (RCID) Research Forum, Clemson University

2015:

- Department of Political Science, Rice University

2014:

- Roundtable participant, "Coordinating electoral and institutional data assets for data-intensive research," Midwest Political Science Association, Chicago, IL
- BMW IT Manager Workshop, BMW IT Research Center, Greenville, SC
- Data Intensive Computing Seminar, Clemson University

2013

- Economics & Politics Seminar, University of Heidelberg
- Mannheim Centre for European Social Research (MZES), University of Mannheim

SERVICE TO THE PROFESSION

Conferences

2017:

- Member of the program committee for the 2nd Southern Data Science Conference (SDSC) in Atlanta
- Member of the program committee for the 2017 Open Science in Big Data (OSBD) workshop, held in conjunction with the the 2017 IEEE International Conference on Big Data

2015: Discussant for panel "Legislative activity and oversight," Midwest Political Science Association, Chicago, IL

2011: Panel organizer “New approaches in coalition research,” American Political Science Association, Seattle, WA

Reviewer

Journals: American Journal of Political Science, American Political Science Review, British Journal of Political Science, Comparative Political Studies, European Journal of Political Research, European Political Science Review, International Journal of Social Research Methodology, Journal of Politics, Journal of Systems and Software, Legislative Studies Quarterly, Management Information Systems Quarterly, Political Science Research and Methods, Politische Vierteljahresschrift, Research and Politics, World Politics

Books: Routledge, Wiley

Grants: US National Science Foundation, Swiss National Science Foundation

TEACHING EXPERIENCE

Clemson University – School of Computing

CPSC 4300/6300 Applied Data Science, BSc/MSc, Spring 2016, 2016/17, 2017/18

CPSC 4910 Senior Design/Capstone Course, BSc, 2016/17, 2017/18

CPSC 4910 Seminar in Professional Issues II, BS/BA, Spring 2017, 2017/18

London School of Economics

Legislative Politics: European Parliament, MSc, 2013, 2014

European Politics: Comparative Analysis, MSc 2012, 2013

Government, Politics and Public Policy in the EU, BSc, 2012/13, 2013/14

Politics and Institutions in Europe, BSc, 2012/13, 2013/14

New York University

Comparative Politics, BA, Teaching Assistant, 2010, 2011

Quantitative Methods I-III, PhD level, Teaching Assistant, 2007–09

STUDENT SUPERVISION

Research adviser:

- Three graduate students in the School of Computing at Clemson University on projects related to data visualization and data-intensive computing, 2015–present.
- Two honors students’ research projects in Computer Science, 2017/18
- Two research interns in the Social Analytics Institute at Clemson University, 2014/15 & 2015/16.
- Three graduate research assistants at LSE for a six-month funded project on legislative behavior in the European Parliament, 2013/14.

Thesis adviser: Sixteen master theses in the “Politics and Government in the European Union” program at LSE, 2012–14.

Academic adviser: Provided academic guidance and feedback on progress and performance to ten undergraduate students in the “Government and Economics” program at LSE, 2012–14.

COLLABORATIONS WITH INDUSTRY

LexisNexis Risk Solutions, Atlanta, GA

2015–present

BMW Information Technology Research Center (ITRC), Greenville, SC

2015–present

LANGUAGES

German (native), English (fluent), French (beginner)

COMPUTING SKILLS

Statistical programming languages: R (+10 years), JAGS (2 years), Stan (1 year)

Statistical software packages: Stata (+15 years)

Programming languages: Python (+5 years)

Databases: MySQL (+5 years)

Cluster computing and cloud computing: Clemson University's Palmetto cluster (3 years), Amazon Web Services (AWS) (2 years)