# Bryce J. Dietrich

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## Education

Ph.D. Political Science, University of Illinois, Urbana-Champaign, 2014.

M.A. Political Science (with Honors), University of Kansas, 2008.

B.A. Political Science and Philosophy (with Honors), University of Missouri, Kansas City, 2005.

## Academic Appointments

Purdue University

> Associate Professor, Department of Political Science, 2022-

University of Iowa

> Assistant Professor, Department of Political Science, 2016-2022
> Assistant Professor, Iowa Informatics Initiative (UI3), 2016-2022

Harvard University

> Research Fellow, John F. Kennedy School of Government, 2018-2019

Northeastern University

> Research Fellow, Network Science Institute, 2018-2019

University of Missouri, Columbia

> Visiting Assistant Professor, Department of Political Science, 2014-2016

## Publications

*Journal Articles*

Stand Up and be Counted: Using Traffic Cameras to Assess Voting Behavior in Real Time (with Hyein Ko), Forthcoming, *Research & Politics*.

Symbols of the Struggle: Descriptive Representation and Issue-Based Symbolism in US House Speeches (with Matthew Hayes), 2023, *Journal of Politics*, 85(4): 1368-1384.

Seeing Racial Avoidance on New York City Streets (with Melissa Sands), 2023, *Nature: Human Behaviour*, 7: 1275–1281.

Natural Language Processing Meets Spatial Time Series Analysis and Geovisualization: Identifying and Visualizing Spatio-Topical Sentiment Trends on Twitter (with Hoeyun Kwon and Caglar Koylu), 2023, *Cartography and Geographic Information Science*, 50(6): 593-607.

Sensitive Questions, Spillover Effects, and Asking About Citizenship on the U.S. Census (with Matthew A. Baum, Rebecca Goldstein, and Maya Sen), 2022, *Journal of Politics*, 84(3): 1869-1873.
 -*Selected Media Coverage: NPR (National), Washington Post #1, Washington Post #2, FiveThirtyEight, Wall Street Journal, USA Today, Reuters, Slate, ABC News, CNN, NPR (Phoenix)*

Gender, Language, and Representation in the United States Senate (with Leah Windsor, Sara Mitchell, Tracy Osborn and Andrew Hampton), 2022, *Journal of Language and Politics*, 21(6): 919-943.

Finding Fauci: Visual and Textual Misinformation During the Covid-19 Pandemic (with Hyein Ko), 2022, *Computational Communication Research*, 4(1): 135-172.

Race and Symbolic Politics in the U.S. Congress (with Matthew Hayes), *PS: Political Science & Politics*, 55(2): 281-283.

Using Motion Detection to Measure Social Polarization in the U.S. House of Representatives, 2020, *Political Analysis*, 29(2):250-259.
 -*Selected Media Coverage: Washington Post , BBC Radio, Journalist Resources (Harvard Kennedy School)*

Pitch Perfect: Vocal Pitch and the Emotional Intensity of Congressional Speech on Women (with Matt Hayes and Diana O'Brien), 2019, *American Political Science Review* 113(4):941-962.
 -*Selected Media Coverage: Washington Post*

Emotional Arousal Predicts Votes on the Supreme Court (with Ryan D. Enos and Maya Sen), 2019, *Political Analysis* 27(2): 237-243.
 -*Selected Media Coverage: The Economist, FiveThirtyEight, American Bar Association Journal*

Geovisual Text Analytics for Exploring Public Discourse on Twitter (with Caglar Koylu and Ryan L. Larson), 2019, *Cartography and Geographic Information Science* 46(1): 57-71.
 -*Featured on the Cover*

Vocal Pattern Detection of Depression among Older Adults (with Marianne Smith, Er-wei Bai and H. Jeremy Bockholt), 2019, *International Journal of Mental Health Nursing* 29(3): 440-449.

Contextual Determinants of Observed Negative Emotional States in Police-Community Interactions (with David A. Makin, Dale W. Willits, Wendy Koslicki, Rachael Brooks, and Rachel L. Bailey), 2019, *Criminal Justice and Behavior* 46(2): 301-318.
 -*Selected Media Coverage: KOMO News Radio, PR Newswire*

When Candidates Debate, Does Social Media Listen? (with Courtney Juelich), 2018, *Journal of Elections, Public Opinion and Parties 28(2): 208-224.*

Personality and Legislative Politics: The Big Five Trait Dimensions among U.S. State Legislators (with Scott Lasley, Jeffery J. Mondak, Megan L. Remmel and Joel Turner), 2012, *Political Psychology 33(2): 179-306.*

*Book Chapters*

"Is There Anybody Out There? C-SPAN, Women, and the Distribution of Desirable Speech Time (with Jielu Yao)." In *The Evolution of Political Rhetoric*, Robert X. Browning, ed. Purdue University Press, 2020.

"If a Picture is Worth a Thousand Words, What is a Video Worth?." In *Exploring the C-SPAN Archives: Advancing the Research Agenda*, Robert X. Browning, ed. Purdue University Press, 2015.

*Newsletters*

Civil Rights and Symbolism in the U.S. House of Representatives (with Matthew Hayes), 2020, *The Legislative Scholar* 4(2): 10-11.

How Audio, Image and Video Data is Being Used to Study Legislative Behavior, 2020 (with Jielu Yao), *The Legislative Scholar* 4(1): 10-12.

## Awards and Grants

Understanding the Evolution of Political Campaign Advertisements over the Last Century (co-PI with Michael Crespin and Kosuke Imai). National Science Foundation. $432,000. 2022.

Using Traffic Camera Feeds to Assess Social Distancing Behavior During the Covid-19 Pandemic (co-PI with Ryan Enos and Melissa Sands). Cisco Research. $50,000. 2020.

Developing a Machine Learning Algorithm to Detect Changes in Depression During In-Person Interviews (co-PI with Marianne Smith and Erwei Bai). National Institute of Health. $463,500. 2019.

Classifying Elderly Depression Using Audio and Machine Learning (with Marianne Smith, Erwei Bai, and Gary Christensen). Office of Vice President for Research. $40,000. 2017.

Campus-Based Mobilization: Measuring Characteristics, Processes, and Outcomes (with Cassie Barnhardt). Iowa Measurement Research Foundation. $23,231. 2017.

The Development of an Early Warning System for Public Safety using Software Analytics. Phase I Subcontract with the Department of Homeland Security and Applied Physics Lab (with David Makin, Rachel Bailey, and Dale Willits). $30,000. 2017.

Washington State University, University of Iowa, and Axon Technology Partnership. Equipment Transfer of 60 Body-Worn Cameras, Accessories, and Storage. Equipment equivalency of $100,000. 2017.

Kinder Institute on Constitutional Democracy. $3,500 research award. 2015.

C-SPAN Education Grant, Purdue University. $2,500 research award. 2014.

## Invited Talks and Conferences

Rutgers University, June 2024

University of Iowa, April 2024

London School of Economics, March 2023

Rochester University, May 2022

Florida State University, May 2022

Instituto Tecnológico Autónomo de México (ITAM), November 2020

University of Pennsylvania, October 2020

University of Washington, May 2020

Michigan State University, May 2020 (Cancelled due to Covid-19)

Stony Brook University, February 2020

University of Memphis, October 2019

Center for Research Libraries, May 2019

MIT Elections Workshop, March 2019

Ash Center for Democracy Panel, February 2019

Harvard Political Behavior Workshop, February 2019

University of Pittsburgh, November 2018

New York University, Text-as-Data Series, October 2018

University of California-Riverside, June 2018.

Instituto Tecnológico Autónomo de México (ITAM), Method Speaker Series, April 2018.

Text Analysis Software Developers' Workshop, New York University, April 2018.

Social Science Foo Camp, Facebook, February 2018.

Rice University, Method Speaker Series, November 2017.

PoliInformatics Workshop, University of Washington, August 2017

University of California-San Diego, Method Speaker Series, June 2017.

Wesleyan University, Digital and Computational Knowledge Initiative (DaCKI) Speaker Series, November 2016.

Conference on Political Data Science, Washington University, May 2016.

## Patents

Program for Automating the Detection of Anomalous Interactions from Video Data (co-inventor). Provisional Patent (#1742). 2017-2018.

## Teaching

*Undergraduate Courses*

Data and Public Policy. Spring 2023, Spring 2024

American Government. Fall 2014, Spring 2015, Spring 2016, Spring 2022.

State Government. Fall 2014.

Research Methods. Fall 2015, Spring 2016, Spring 2018.

Environmental Politics. Spring 2015, Spring 2016, Fall 2017, Spring 2021.

Political Behavior. Spring 2015, Fall 2015.

Congress and Legislative Policy. Fall 2015, Spring 2017, Fall 2020, Spring 2022.

Legislative Policy Research. Fall 2017, Fall 2019, Fall 2020, Fall 2021.

Honors Research Practicum. Spring 2018, Spring 2020, Spring 2021, Spring 2022.

*Graduate Courses*

Introduction to Statistics. Fall 2016.

Text-as-Data. Fall 2016, Fall 2019, Fall 2021, Fall 2023.

Ordinary Least Squares (OLS). Spring 2018.

*Workshops*

Audio/Image/Video Analysis. Purdue University. June 2024.

Audio/Image/Video Analysis. Florida State University. Spring 2022.

Audio-as-Data. Instituto Tecnológico Autónomo de México (ITAM). Spring 2018.

Audio-as-Data. Iowa Informatics Initiative. Spring 2018.

Text-as-Data. Iowa Informatics Initiative. Spring 2017.

Text Analysis. University of Missouri. Fall 2015.

Programming in R. University of Missouri. Spring 2015.

Multilevel Modeling. University of Missouri. Fall 2014.

# Advising

*Undergraduate Students (with Initial Placements)*

Sabeeha Main (current student, Purdue University)

Amy Johnson (former student, University of Iowa)

Grace Kiple (former student, University of Iowa)

Jack Kamp (former student, University of Iowa)

Nicholas Pryor (former student, University of Iowa)

Anna Sullivan (former student, University of Iowa)

Ella Daniels (former student, University of Iowa)

Oskar Kaut (former student, University of Iowa)

Ganon Evans (former student, University of Iowa) → Kansas Policy Institute.

Kyle Apple (former student, University of Iowa) → University of Iowa Law School.

Logan Drake (former student, University of Iowa) → PhD Student (Sociology), University of Iowa.

Matthew Wallack (former student, University of Iowa) → PhD Student (Political Science), University of Georgia.

Jennifer Eggerling (former student, University of Iowa) → Florida State University Law School.

Lauren Ellbogen (former student, University of Iowa) → Northeastern University Law School.

Marcus Miller (former student, University of Iowa) → Harvard University Law School.

Jacob Otto (former student) → PhD Student (Political Science), University of Pittsburgh.

Anne Russell (former student) → PhD Student (Economics), West Virginia University.

Zach Weigel (former student) → MA Student (Education), University of Iowa.

*Graduate Students (with Initial Placements)*

Jianjun Yu (current student, University of Iowa)

Jeongho Choi (current student, University of Iowa)

Simal Binici (current student, University of Iowa)

Tracee Saunders (current student, University of Iowa) → Pre-Doctoral Research Fellow (Political Science), Georgetown University

Hyein Ko (current student, University of Iowa) → Post-Doctoral Research Fellow (Political Science), University of Illinois, Urbana Champaign

Daria Kuznetsova (current student, University of Iowa) → Tenure-Track (Political Science), University of Canterbury

Cassandra Tai (current student, University of Iowa) → Post-Doctoral Research Fellow (Political Science), Pennsylvania State University

Jielu Yao (former student, University of Iowa) → Post-Doctoral Research Fellow (Data Science), Wesleyan University

Ryan Young (former student, University of Iowa) → Private Sector (Research Analyst), University of Illinois, Urbana Champaign

Christopher Junk (former student, University of Iowa) → Private Sector (Data Scientist), Athena and CVS – Research Division

Payel Sen (former student, University of Missouri) → PhD Student (Political Science), Stony Brook University

Stella Wancke (former student, University of Missouri) → PhD Student (Political Science), University of Texas

JoyAnna Hopper (former student, University of Missouri) → Tenure-Track (Political Science), Sewanee University

Volha Kananovich (former student, University of Iowa) → Tenure-Track (Journalism), Appalachian State University

Yafei Zhang (former student, University of Iowa) → Tenure-Track (Business), West Texas A&M

Ruoxi Du (former student, University of Iowa) → Private Sector (Data Science), Netflix

# Professional Service

*Reviewer*

**Journals**

*American Journal of Political Science*

*American Politics Research*

*American Political Science Review*

*Communication Monographs*

*Journal of Politics*

*Legislative Studies Quarterly*

*Political Analysis*

*Political Behavior*

*Political Psychology*

*Political Science Research and Methods*

**Publishers**

*Oxford University Press*

*Sage*

# College and Departmental Service

*Purdue University*

Director, Computational Social Science Lab (2022-)

Member, JMK Lab Steering Committee, (Political Science, 2022-)

Member, C-SPAN Steering Committee, (Purdue University, 2022-)

Member, C-SPAN Editorial Board, (Purdue University, 2022-)

*University of Iowa*

Representative, Faculty Assembly (2020-2022)

Director, Computational Social Science Lab (2020-2022)

Director, Iowa Policy Research Organization (2017-2022)

Chair, Computer and Technology Committee (2019-2022)

Member, Executive Committee. (Informatics, 2017-2018)

Member, Executive Committee. (Political Science, 2017-2018, 2020)

Member, Scholarship Selection Committee. (Honors Program, 2017-2018)

## Service to the Discipline

Member, Gosnell Prize Selection Committee. (Society for Political Methodology, 2022-2023)

## References

*Available Upon Request*

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`http://www.brycejdietrich.com/dietrich_cv.pdf`