stefanwojcik

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programming languages

♥ R,
♥ Python,
♥ Julia,
Django
& PostgreSQL

natural languages

english mother tongue
spanish - fluent
portuguese - fluent

education

2010–2014	**PhD** of Political Science	The University of Colorado, Boulder

Comparative Politics, Statistical Methods
My thesis used computational methods to understand the causes and consequences of interpersonal networks in the Brazilian legislature.

2008–2010	**Master** of Political Science	The University of Wisconsin, Milwaukee

Specialized in Comparative Politics

2003–2007	**Bachelor** of Political Science, Spanish	The University of Minnesota, Duluth

Specialized in Political Theory

experience

2021–2022	**TWITTER**	Remote

Staff Data Scientist
In collaboration with a small team, I build and productionize models of customer revenue to optimize an array of company financial decisions. We generated an approach to 1) estimate long-term net present customer value, and 2) utilize net present value estimates to optimize customer acquisition strategies. In this role, I also worked on projects to audit ML algorithms for customer demographic representativeness and products to optimize community-driven moderation efforts (e.g. Birdwatch).

2019–2021	**TWITTER**	Washington, DC

Staff Quant User Researcher
My team conceives and executes analyses of survey and digital trace data to understand people's perceptions, needs, and experiences. We build tools to generate representative samples of people on Twitter, and when appropriate combine survey responses with behavioral data to get a more complete view of attitudes and behaviors.

2017–2019	**THE PEW RESEARCH CENTER**	Washington, DC

Computational Social Scientist
Applied a variety of modern machine learning and statistical tools to digital trace data, including text, images, and survey data. Utilized deep learning models, support vector machines, hierarchical models, and tree-based models.
-Media trained

2014–2016	**THE LAZER LAB**	Harvard University/ Northeastern University

Postdoctoral Fellow of Computational Social Science
Forecasted global elections, tracked flu rates in collaboration with Microsoft Research, developed methods to extract representative data from Twitter to predict public opinion, flu, movie revenues.

selected presentations

2020	**Conference Presentation**	International Conference on Computational Social Science

Mind Map: A Bootstrapping Approach to Topic Extraction

2019	**Methods Presentation**	The World Bank

Co-presented research conducted about gender representation in online news.

2018	**Conference Presentation**	American Political Science Association

Presented research conducted about gender representation in online news.

2018	**Conference Presentation**	International Conference on Computational Social Science

Presented research conducted about bots on Twitter.

selected publications

- 2021 "Survey data and human computation for improved flu tracking". Nature Communications. (with Avleen Bijral, et al.). LINK.

- 2019 "The challenges of using machine learning to identify gender in images". Pew Research Center. (with Emma Remy). LINK.

- 2019 "Sizing Up Twitter Users". Pew Research Center. (with Adam Hughes). LINK.

- 2019 "Gender and Jobs in Online Image Searches". Pew Research Center. (with Onyi Lam, Adam Hughes, and Brian Broderick). LINK.

- 2018 "Bots in the Twittersphere". Pew Research Center. (with Solomon Messing, Aaron Smith, Lee Rainie and Paul Hitlin). LINK.

- 2017 "Do Birds of a Feather Vote Together, or Is It Peer Influence?". Political Research Quarterly.

- 2017 "Are Democracies Cheaper? Regime Type, Electoral System, and Consumer Price Levels" (with Andy Baker). International Political Science Review.

- 2017 "Voters of the Year: 19 Voters Who Were Unintentional Election Poll Sensors on Twitter" (with Will Hobbes, Lisa Friedland, Kenneth Joseph, Oren Tsur, and David Lazer). ICWSM 2017.

- 2017 "Improving Election Prediction Internationally". (with Ryan Kennedy and David Lazer). Science Vol. 355 Issue 6324: 515-520.

- 2017 "Men Idle, Women Network: How Networks Help Female Legislators Succeed". (with Shawnna Mullenax). Winner of Best Graduate Student Paper, Department of Political Science, CU-Boulder. Legislative Studies Quarterly.

- 2016 "Political Networks and Computational Social Science". (with David Lazer). Oxford Handbook of Political Networks.

- 2016 "Why Legislative Networks? Analyzing Legislative Network Formation". Political Science Research and Methods.

selected awards

- National Science Foundation Political Networks Conference Fellowship, Portland, Oregon, June 2015, total $700

- Graduate School Summer Fellowship, University of Colorado, 2014, total $6000

- Beverly Sears Research Award, University of Colorado, 2014, total $1000

- Latin American Research Cluster Grant, University of Colorado 2013, 2014, total $250

- Political Science Summer Research Grant, University of Colorado 2012, 2013, 2014, total $1800, $2500, $2250