

THERESE ANDERS

tanders.usc@gmail.com • therese.rbind.io • github.com/thereseanders

Updated February 2020

ACADEMIC APPOINTMENTS

Hertie School, Berlin

Oct 2019–

Postdoctoral research fellow · data scientist

Hertie School Data Science Lab & SCRIPTS Data and Methodology Center

EDUCATION

University of Southern California, Los Angeles

defended Sep 2019

Ph.D. in Political Science and International Relations

Dissertation *Perspectives on state capacity and the political geography of conflict* uses computational methods to understand spatial and temporal dynamics of actor behavior in conflict zones. Chair: P. James

Methodology certificate (2015): Completion of courses in advanced statistical analysis, research design, causal inference, data visualization, introductory and advanced machine learning, Python programming

University of Southern California, Los Angeles

2015

M.A. in Economics

Freie Universität Berlin, Germany

2013

Diplom Degree in Political Science (B.A. and M.A. equivalent)

Duke University, Durham

2010–2011

Non-degree exchange program

Universidad CEU Cardenal Herrera, Valencia, Spain

2010

Non-degree exchange program

PUBLICATIONS

Peer-reviewed articles

- [1] Bread before guns or butter. Introducing Surplus Domestic Product (with Christopher Fariss and Jonathan Markowitz). In *International Studies Quarterly*. Forthcoming.
- [2] Moral Hazard: German Public Opinion on the Greek Debt Crisis (with Brian Rathbun and Kathleen Powers). In *Political Psychology*. 2018.

Book chapters

- [3] "In Defeat, Defiance": Churchill in Words (1935–1939) and in Deeds (1940) (with Brian Rathbun). In *Reasoning of State: Realists, Romantics and Rationality in International Relations*. Cambridge and New York: Cambridge University Press. 2019.

Conference proceedings

- [4] Measuring territorial control in civil wars using Hidden Markov Models: A data informatics-based approach (with Hong Xu, Cheng Cheng, and T. K. Satish Kumar). In *Proceedings of the NIPS 2017 Workshop on Machine Learning for the Developing World*. 2017.

UNPUBLISHED MANUSCRIPTS

Under review

- [1] Territorial control in civil wars: Theory and measurement using machine learning. Revise & resubmit at *Journal of Peace Research*.
 - Winner of Kenneth E. Boulding Award of the International Studies Association Peace Studies Section 2018
- [2] Deportation, Crime, and Victimization (with Sandra Rozo and Steven Raphael). Revise & resubmit at *Journal of Population Economics*.
 - Nominated for Juan Luis Londoño Prize at the Latin American and Caribbean Economic Association meeting 2017
- [3] New Estimates of Over 500 Years of Historic GDP and Population Data (with Christopher Fariss and Jonathan Markowitz).

Working papers

- [4] How does Insecurity Affect Government Welfare Spending? Insights from Colombian Municipalities.
- [5] Estimating conflict exposure from event data.
- [6] Strategic compassion: The determinants of international emergency aid after natural disasters (with Thomas Jamieson).
- [7] Measuring Power Projection (with Jonathan Markowitz, Megan Becker, Jacob Tucker, and Lauren Cholakian).

AWARDS

2018 Kenneth E. Boulding Award for best student paper, ISA Peace Studies Section
2016 Best Graduate Student Paper Award, ISA West Conference
2015 Essay Competition Winner, USC Center for International Studies
2014 Best Graduate Student Paper Award, ISA West Conference

TEACHING

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|---|---|
| Director of Research and Training | USC Security and Political Economy (SPEC) Lab |
| <i>Developed curriculum for data science training of graduate & undergraduate RAs</i> | 2016–2017 |
| Participant in instructor training | RStudio |
| <i>Data science pedagogy for diverse student groups</i> | July 2019 |

As instructor

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| Data Science Workshop Series for faculty and postdoctoral fellows | Hertie School |
| <i>Co-organizer & instructor</i> | Jan–May 2020 |
| Advanced data visualization in R for Ph.D. students | Summer Methods School, Florida State University |
| <i>3 four-hour sessions</i> | May 2019 |
| Math and quantitative methods for social science Ph.D. students | USC |
| <i>Four-day course</i> | Aug 2019, 2018, 2017, 2016 |
| Introduction to \LaTeX for Ph.D. students | USC |
| <i>Two-hour workshop</i> | Feb 2018, Apr 2016 |
| Maps in R for Ph.D. students | USC |
| <i>Two-hour workshop</i> | Apr 2017 |

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| Data visualization in R <i>2 two-hour lecture & lab series</i> | USC Apr 2017 |
| Data management in R <i>6 two-hour lecture & lab series</i> | USC Fall 2016 |
| Introduction to R <i>2 two-hour sessions & lab series</i> | USC Mar 2016 |
| As teaching assistant | |
| Math and quantitative methods for social science Ph.D. students <i>Four-day course</i> | USC Aug 2015 |

GRANTS AND FELLOWSHIPS

2019 USC Graduate School Summer Research and Writing Grant
 2018 USC Center for International Studies Graduate Student Research Grant (with Thomas Jamieson)
 2018 PolMeth XXXV National Science Foundation (NSF) travel grant
 2018 Visions in Methodology (VIM) NSF conference participation travel grant
 2017 Peace Science Society travel grant
 2017 APSA travel grant
 2017 ISA travel grant
 2013–2018 USC Winifred Greenleaf Allen Fellowship (tuition and stipend)
 2013–2018 USC Dornsife Doctoral Fellow stipend
 2013 McGill Graduate Excellence Fellowship (declined).
 2012 Internship grant by the German Academic Exchange Service (DAAD)
 2010–2011 Fellowship by Freie Universität Berlin and Duke University (tuition and stipend)
 2010–2011 Scholarship by the DAAD (stipend)
 2010–2011 Ernst-Reuter Fellowship of the Ernst-Reuter Society of the FU Berlin (stipend)
 2010 Fulbright Travel Grant (declined)

INVITED PRESENTATIONS

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| New Faces in Political Methodology XI Conference (Penn State University) | 2019 |
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CONFERENCE PRESENTATIONS

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| rstudio::conf | 2020 |
| Society for Political Methodology Europe | 2020 |
| International Studies Association (ISA) Annual Convention | 2015, 2016, 2017, 2018, 2019, 2020 |
| Society for Political Methodology (PolMeth) Annual Meeting | 2018 |
| Peace Science Society International North American Meeting | 2017, 2018 |
| American Political Science Association (APSA) Annual Meeting | 2017, 2018, 2019 |
| USC Center for International Studies Working Paper Series | 2018 |

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| Neural Information Processing Systems Workshop <i>Machine Learning for the Developing World</i> | 2017 |
| ISA West Annual Meeting | 2014, 2015, 2016, 2017 |
| USC Conference <i>Political Economy and Power Projection</i> | 2016 |

PROFESSIONAL ACTIVITIES

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| PSS Workshop “Measuring and Conceptualizing Rebel Governance” <i>Invited participant</i> | Kansas State University Nov 2019 |
| Visions in Methodology (VIM) conference <i>Invited participant</i> | Ohio State University May 2018 |
| Dornsife Ph.D. Academy <i>Invited panelist</i> | USC Nov 2018, Sep 2018 |

PROFESSIONAL EXPERIENCE

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| RStudio <i>Software engineering intern</i> | May–Aug 2019 Boston, MA |
| Developed open source software solutions for peer review in data science classes via the ghclass R package | |
| Research Center SFB 700 “Governance in Areas of Limited Statehood” <i>Student Assistant to the Management</i> | 2011–2013 Berlin, Germany |
| German Embassy <i>Intern, Political Department</i> | Summer 2012 Washington D.C., USA |
| German Council on Foreign Relations <i>Intern, Transatlantic Relations Program</i> | Spring 2012 Berlin, Germany |
| Deutscher Bundestag (German Parliament) <i>Student Assistant to Member of Parliament</i> | 2008–2009 Berlin, Germany |

RESEARCH EXPERIENCE

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|---|-----------|
| Research Assistant to Jonathan Markowitz (USC Center for International Studies) | 2016–2019 |
| Research Assistant to Brian Rathbun (USC Center for International Studies) | 2014–2015 |
| Research Assistant to Stacy Smith (USC Annenberg Inclusion Initiative) | 2014 |

SERVICE

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| Executive Board Student Representative for ISA West (2015–2017) | |
| Discussant, APSA panel “Territorial Control and Conflict Dynamics in Civil Wars” (August 2018) | |
| Discussant, USC conference “The Political Economy of Security” (January 2018) | |
| Discussant, USC CIS Working Paper Series (October 2018, November 2017, February 2016, September 2015, April 2015) | |
| Ad hoc reviewer for <i>Foreign Policy Analysis</i> | |

SOFTWARE

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| R | Functional programming & package development Statistical analysis Machine learning Data management (tidyverse) Advanced data visualization (ggplot2) Spatial analysis (sf) Bayesian modeling (rstan) Natural language processing Text analysis |
| Large scale computing | High-Performance Computing (USC) Amazon Web Services Elastic Compute Cloud RStudio Cloud |
| Stata | Data management, analysis, and visualization |
| Python | Natural language processing, data management (pandas), SQLite |
| Other | L ^A T _E X Adobe Illustrator |

LANGUAGES

German (native), English (excellent), Spanish (intermediate), French (basic)

REFERENCES

Pablo Barberá

Research Scientist, Facebook Core Data Science

Assistant Professor, School of International Relations, University of Southern California

pbarbera@usc.edu

Christopher Fariss

Assistant Professor, Department of Political Science, University of Michigan

cjfariss@umich.edu

Benjamin Graham

Associate Professor of International Relations, University of Southern California

benjamag@usc.edu

Patrick James

Dean's Professor of International Relations, University of Southern California

patrickj@usc.edu

Jonathan Markowitz

Assistant Professor of International Relations, University of Southern California

jonathnm@usc.edu