

# THERESE ANDERS

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## ACADEMIC APPOINTMENTS

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**Hertie School, Berlin** 2019–2020  
*Postdoctoral research fellow | data scientist*  
Academic coordinator of the SCRIPTS Data and Methodology Center  
Research fellow at the Hertie School Data Science Lab

## EDUCATION

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**University of Southern California, Los Angeles** 2020  
*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: Patrick 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

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### Peer-reviewed articles

- [1] Territorial control in civil wars: Theory and measurement using machine learning. In *Journal of Peace Research*. Forthcoming.
  - Winner of Kenneth Boulding Award (International Studies Association Peace Studies Section 2019)
- [2] Bread before guns or butter. Introducing Surplus Domestic Product (with Christopher Fariss and Jonathan Markowitz). In *International Studies Quarterly*. 2020.
- [3] *Moral Hazard: German Public Opinion on the Greek Debt Crisis* (with Brian Rathbun and Kathleen Powers). In *Political Psychology* 40(3). 2019.

### Book chapters

- [4] "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

- [5] 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

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### Under review

- [1] Deportation, Crime, and Victimization (with Sandra Rozo and Steven Raphael). Revise & resubmit at *Journal of Population Economics*.
- Nominated for Juan Luis Londoño Prize (Latin American and Caribbean Economic Association meeting 2017)
- [2] New Estimates of Over 500 Years of Historic GDP and Population Data (with Christopher Fariss and Jonathan Markowitz). Revise & resubmit at *Journal of Conflict Resolution*.

### Working papers

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

## AWARDS

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2020 Nominated for Ph.D. Achievement Award, USC

2019 Kenneth E. Boulding Award for best student paper, ISA Peace Studies Section

2017 Best Graduate Student Paper Award, ISA West Conference

2015 Essay Competition Winner, USC Center for International Studies

2015 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 &amp; undergraduate RAs</i>	2016–2017
Participant in instructor training	RStudio
<i>Data science pedagogy for diverse student groups</i>	July 2019

### As instructor

Data Science Workshop Series for faculty and postdoctoral fellows	Hertie School
<i>Co-organizer &amp; 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 $\text{\LaTeX}$ for Ph.D. students <i>Two-hour workshop</i>	USC Feb 2018, Apr 2016
Maps in R for Ph.D. students <i>Two-hour workshop</i>	USC Apr 2017
Data visualization in R <i>2 two-hour lecture &amp; lab series</i>	USC Apr 2017
Data management in R <i>6 two-hour lecture &amp; lab series</i>	USC Fall 2016
Introduction to R <i>2 two-hour sessions &amp; 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
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## **GRANTS AND FELLOWSHIPS**

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2020 AWS Cloud Credits for Research (\$10,000)  
 2020 Hertie School Faculty Activity Fund (~\$4,000, with Julian Wucherpfennig)  
 2019 USC Graduate School Summer Research and Writing Grant (\$5,000)  
 2018 USC CIS Graduate Student Research Grant (\$1,000, 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 (PolMeth) Europe meeting	2020 <sup>1</sup>
International Studies Association (ISA) Annual Convention	2015, 2016, 2017, 2018, 2019, 2020 <sup>1</sup>
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
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 EXPERIENCE

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<b>RStudio</b> <i>Software engineering intern</i>	May–Aug 2019 <i>Remote</i>
Developed open source software solutions for peer review in data science classes via the <code>ghclass</code> R package.	
<b>Research Center SFB 700 “Governance in Areas of Limited Statehood”</b> <i>Student Assistant to the Management</i>	2011–2013 <i>Berlin, Germany</i>
Managed the center’s professional and academic development program for doctoral students. Organized presentations, receptions, and workshops in the U.S. and Germany.	
<b>German Embassy</b> <i>Intern, Political Department</i>	Summer 2012 <i>Washington D.C., USA</i>
Wrote policy briefs for embassy staff.	
<b>German Council on Foreign Relations</b> <i>Intern, Transatlantic Relations Program</i>	Spring 2012 <i>Berlin, Germany</i>
Authored policy reports and press analyses. Conducted data base management.	
<b>Deutscher Bundestag (German Parliament)</b> <i>Student Assistant to Member of Parliament</i>	2008–2009 <i>Berlin, Germany</i>
Authored policy dossiers and press reviews.	

## 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

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<sup>1</sup>Conference canceled due to Covid-19.

## 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

## 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 *Foreign Policy Analysis*

## SOFTWARE

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<b>R</b>	Statistical modeling Machine learning Data wrangling (tidyverse) Advanced data visualization (ggplot2) Spatial analysis (sf) Bayesian modeling (rstan) Natural language processing Web scraping Package development & functional programming Panel data analysis Forecasting
<b>Large scale computing</b>	High-Performance Computing (USC) Amazon Web Services Elastic Compute Cloud RStudio Cloud
<b>Stata</b>	Data management, analysis, and visualization
<b>Python</b>	Text analytics, data management (pandas), SQLite
<b>Other</b>	L <sup>A</sup> T <sub>E</sub> X Adobe Illustrator Tableau

## LANGUAGES

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

## REFERENCES

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**Pablo Barberá**

*Research Scientist, Facebook Core Data Science*

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

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**Mine Çetinkaya-Rundel**

*Professional Educator and Data Scientist, RStudio*

*Senior Lecturer in Mathematical Sciences, University of Edinburgh*

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**Christopher Fariss**

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