

THERESE ANDERS

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PROFESSIONAL EXPERIENCE

Apple Inc. 2020–
Data scientist

Service Analytics, Forecasting, and Efficiency team; forecasting global network and infrastructure demand; front- and backend development of Shiny dashboards; automation of ETL pipelines.

Hertie School, Berlin 2019–2020
Postdoctoral research fellow | data scientist

Hertie School Data Science Lab research fellow; Academic coordinator SCRIPTS Data & Methodology Center.

RStudio May–Aug 2019
Software engineering intern Remote

Developed open source software solutions for peer review in data science classes via the `ghclass` R package.

University of Southern California 2014–2019
Research assistant Los Angeles, CA

Implemented research design, data management, Bayesian modeling, visualization, and text analytics for collaborative projects; co-authored 5 article-length publications & presented findings at leading conferences.

EDUCATION

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

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] New Estimates of Over 500 Years of Historic GDP and Population Data (with Christopher Fariss and Jonathan Markowitz). In *Journal of Conflict Resolution*. Accepted.
- [2] Deportation, Crime, and Victimization (with Sandra Rozo and Steven Raphael). In *Journal of Population Economics* 34. 2021.
 - Nominated for Juan Luis Londoño Prize (Latin American and Caribbean Economic Association meeting 2017)
- [3] Territorial control in civil wars: Theory and measurement using machine learning. In *Journal of Peace Research* 57(6). 2020.
 - Best Visualization Award (Journal of Peace Research, 2020)
 - Winner of Kenneth Boulding Award (International Studies Association Peace Studies Section 2019)
- [4] Bread before guns or butter. Introducing Surplus Domestic Product (with Christopher Fariss and Jonathan Markowitz). In *International Studies Quarterly*. 2020.
- [5] Moral Hazard: German Public Opinion on the Greek Debt Crisis (with Brian Rathbun and Kathleen Powers). In *Political Psychology* 40(3). 2019.

Book chapters

- [6] "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

- [7] 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

Working papers

- [1] How does Insecurity Affect Government Welfare Spending? Insights from Colombian Municipalities.
- [2] Strategic compassion: The determinants of international emergency aid after natural disasters (with Thomas Jamieson).

AWARDS

2020 Best Visualization Award, Journal of Peace Research

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

Instructor

Data Science Workshop Series for faculty and postdoctoral fellows

Hertie School

Co-organizer & instructor; 3 half-day workshops: *Intro to R, data management, visualization* Jan–May 2020

Advanced data visualization in R for Ph.D. students <i>3 four-hour sessions</i>	Summer Methods School, Florida State University May 2019
Math and quantitative methods for social science Ph.D. students <i>Four-day course</i>	USC Aug 2019, 2018, 2017, 2016
Introduction to \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 & 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
Teaching assistant	
Math and quantitative methods for social science Ph.D. students <i>Four-day course</i>	USC Aug 2015
Other	
Director of Research and Training <i>Developed curriculum for data science training of graduate & undergraduate RAs</i>	USC Security and Political Economy (SPEC) Lab 2016–2017
Participant in instructor training <i>Data science pedagogy for diverse student groups</i>	RStudio July 2019

SOFTWARE

R	Statistical modeling Time series forecasting Machine learning Data management Advanced data visualization (static & interactive) Package development & functional programming Geospatial analysis & visualization Bayesian modeling Natural language processing Web scraping
Shiny	Front- and backend development of interactive dashboards
DevOps	git, Jenkins, PostgreSQL, Docker
Python	Text analytics, data management (pandas), SQLite
Large scale computing	High-Performance Computing RStudio Cloud
Stata	Data management, analysis, and visualization
Other	\LaTeX Adobe Illustrator Tableau

GRANTS AND FELLOWSHIPS

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

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

rstudio::conf	2020
International Studies Association (ISA) Annual Convention	2015, 2016, 2017, 2018, 2019
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

OTHER PROFESSIONAL EXPERIENCE

Research Center SFB 700 “Governance in Areas of Limited Statehood”	2011–2013
<i>Student Assistant to the Management</i>	<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.	

German Embassy*Intern, Political Department*Summer 2012
Washington D.C., USA

Development of policy briefs for embassy staff.

German Council on Foreign Relations*Intern, Transatlantic Relations Program*Spring 2012
Berlin, Germany

Authored policy reports and press analyses. Conducted data base management.

Deutscher Bundestag (German Parliament)*Student Assistant to Member of Parliament*2008–2009
Berlin, Germany

Authored policy dossiers and press reviews.

PROFESSIONAL ACTIVITIES

PSS Workshop “Measuring and Conceptualizing Rebel Governance”

Kansas State University

Invited participant

Nov 2019

Visions in Methodology (VIM) conference

Ohio State University

Invited participant

May 2018

Dornsife Ph.D. Academy

USC

Invited panelist

Nov 2018, Sep 2018

SERVICE

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***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

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Professional Educator and Data Scientist, RStudio

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