# carstenschwemmer

Postdoctoral Researcher

<b>about</b> 22/02/1988	interests	nterests		
GESIS - Leibniz	computational social science, digital media, political sociology, ethnic & gender studies, sociotechnical systems, natural language processing, images as data			
Institute for the Social Sciences	experience			
Department for Computational Social	since 2020	Postdoctoral Researcher GESIS, Department for Computational Social Science, Colog	Postdoc	
Science Unter Sachsenhausen	since 2020	<b>Visiting Postdoctoral Fellow</b> University of Bamberg, BAGSS	Visiting Scholar	
50667 Köln	2019 - 2020	Senior Research Associate Center for Information Technology Policy, Princeton Universit	Postdoc	
⊠c.schwem2er [at]gmail.com	2019 - 2020	<b>Lecturer for Computational Social Science</b> Institute for Social Sciences, Stuttgart University	Postdoc	
carstenschwemmer.com	2019	Research Fellow at Weizenbaum Internet Institute Weizenbaum Institute, Berlin	Junior Fellow	
languages first language: german fluent: english basics: french	2018 - 2019	Assistant Professor for Social Science Data Collection and Analysis (fixed term) Center for Data and Methods, University of Konstanz	Assistant Professor	
	2015 - 2019	Lecturer for Methods of Political Sociology and Quantitative Text Analysis Chair of Political Sociology, Bamberg	Research Associate	
software LimeSurvey Latex Microsoft Office SPSS Stata	June 2018	<b>Academic Visitor at Nuffield College</b> University of Oxford	Visiting Scholar	
	2017-2018	<b>Teaching Assignment for Data Scraping</b> Humboldt University of Berlin	Associate Lecturer	
	2015-2018	<b>Teaching Assistant for Programming in the Social Sciences</b> ECPR Winter School, Bamberg	Teaching Assistant	
<b>programming</b> Python	2015-2017	Project Pathways to Power: The Political Representation of Citizens of Immigrant Origin Chair of Comparative Politics, Bamberg	Research Associate	
R	2015	<b>Network Analysis, Programming</b> Chair of Business Informatics (Social Networks), Bamberg	Research Assistant	
coding projects github://cschwem2er	2015	<b>Tutor for Programming and Natural Language Processing</b> Chair of Sociology, Bamberg	Research Assistant	
g.a.iab.,,, 00011W011I201	2015	<b>Tutor for Online Research Methods</b> Chair of Internet Sociology, Bamberg	Research Assistant	

2014-2015	<b>Data Generation</b> DIW - German Institute for Economic Research, Berlin	Research Assistant
2011-2015	<b>Tutor for Data Analysis, Survey Administration</b> Chair of Empirical Social Research, Bamberg	Research Assistant
2011-2015	<b>Empirical Research, Questionnaire Design, Scientific Metho</b> Chair of Business Administration (HRM), Bamberg	ods Research Assistant
2010-2013	<b>Data Analysis, Cognitive Interviewing</b> Leibniz Institute for Educational Trajectories, Bamberg	esearch Assistant & Internship

### education

2016-2019	PhD (summa cum laude - with highest distinction) Thesis: Computational Methods for the Social Sciences Applications to the Study of Ethnic Minorities	University of Bamberg
2013-2015	Master of Arts (grade: 1.2 - with honors) Majoring in Sociology Specialization in Empirical & Computational Methods	University of Bamberg
2009–2013	Bachelor of Arts (grade: 1.8) Majoring in Sociology	University of Bamberg
2003-2009	German A-Levels	Schiller Gymnasium Hof

# **publications**

# articles in peer-reviewed journals

Diagnosing Gender Bias in Image Recognition Systems

Carsten Schwemmer, Carly Knight, Emily Bello-Pardo, Stan Oklobdzija, Martijn Schoonvelde, and Jeffrey Lockhart Socius (Nov. 2020)

DOI: 10.1177/2378023120967171

The Methodological Divide of Sociology - Evidence From Two Decades of Journal Publications

Carsten Schwemmer and Oliver Wieczorek

Sociology (Feb. 2020)

DOI: 10.1177/0038038519853146, URL: https://doi.org/10.1177/0038038519853146

Die Vernetzung von Influencern – eine Analyse der deutschen YouTube-Szene [in German language]

Sandra Ziewiecki and Carsten Schwemmer

Merz Wissenschaft (Dec. 2019)

URL: https://osf.io/preprints/socarxiv/hj8d4/

Collective Sense-Making in Times of Crisis: Connecting Terror Management Theory with Twitter Reactions to the Berlin Terrorist Attack

Diana Fischer-Preßler, Carsten Schwemmer, and Kai Fischbach

Computers in Human Behavior (Nov. 2019)

DOI: 10.1016/j.chb.2019.05.012, URL: https://osf.io/preprints/socarxiv/p47b6/

Whose ideas are worth spreading? The representation of women and ethnic groups in TED talks

Carsten Schwemmer and Sebastian Jungkunz

Political Research Exchange (Sept. 2019)

DOI: 10.1080/2474736X.2019.1646102, URL: https://osf.io/preprints/socarxiv/d69vw/

Xenophobia before and after the Paris 2015 Attacks. Evidence from a Natural Experiment

Sebastian Jungkunz, Marc Helbling, and Carsten Schwemmer

Ethnicities (Apr. 2019)

DOI: 10.1177/1468796818757264, URL: https://osf.io/preprints/socarxiv/eykw2

#### The Impact of Candidate Selection Rules and Electoral Vulnerability on Legislative Behavior in Comparative Perspective

Jorge M. Fernandes, Lucas Geese, and Carsten Schwemmer

European Journal of Political Research (Feb. 2019)

DOI: 10.1111/1475-6765.12281, URL: https://osf.io/preprints/socarxiv/ujgt7

#### MPs' Principals and the Substantive Representation of Disadvantaged Immigrant Groups

Lucas Geese and Carsten Schwemmer West European Politics (Jan. 2019)

DOI: 10.1080/01402382.2018.1560196, URL:  $https://www.carstenschwemmer.com/files/geese\_schwemmer\_wep\_preprint.pdf$ 

#### Election proximity and representation focus in party-constrained environments

Jorge M. Fernandes, Cristina Leston-Bandeira, and Carsten Schwemmer

Party Politics (Nov. 2018)

DOI: 10.1177/1354068817689955, URL: https://osf.io/preprints/socarxiv/usfbd

#### Ride with Me - Ethnic Discrimination, Social Markets and the Sharing Economy

Jasper Dag Tjaden, Carsten Schwemmer, and Menusch Khadjavi

European Sociological Review (Aug. 2018)

DOI: 10.1093/esr/jcy024, URL: https://osf.io/preprints/socarxiv/gefsx

#### Social Media Sellout - The Increasing Role of Product Promotion on YouTube

Carsten Schwemmer and Sandra Ziewiecki Social Media and Society (Aug. 2018)

DOI: 10.1177/2056305118786720, URL: https://osf.io/preprints/socarxiv/tskjb

### articles in peer-reviewed conference proceedings

#### Media Bias Towards African-Americans Before and After the Charlottesville Rally

Julia Leschke and Carsten Schwemmer

The 2nd Weizenbaum Conference - Challenges of Digital Inequality - Digital Education, Digital Work, Digital Life, May 2019

DOI: 10.34669/wi.cp/2.25

#### Terror Management and Twitter: The Case of the 2016 Berlin Terrorist Attack

Diana Fischer, Carsten Schwemmer, and Kai Fischbach

15th International Conference on Information Systems for Crisis Response and Management, May 2018

URL: https://osf.io/preprints/socarxiv/964dc

#### Content Reconstruction of Parliamentary Questions. Combining Metadata with an OCR Process

Fotios Fitsilis, Thomas Saalfeld, and Carsten Schwemmer

The 5th International Virtual Conference on Advanced Scientific Results, June 2017

DOI: 10.18638/scieconf.2017.5.1.448, URL: http://scieconf.com/archive/?vid=1&aid=2&kid=90501-448

## open source software

#### pathways: A Package for Exploring the Pathways Corpus

Carsten Schwemmer, 2019

URL: https://cschwem2er.github.io/pathways

imgrec: Image Recognition with R

Carsten Schwemmer, 2019

 $\label{eq:convenience} \mbox{URL: https://cschwem2er.github.io/imgrec}$ 

#### stminsights: A Shiny Application for Inspecting Structural Topic Models

Carsten Schwemmer, 2019

#### siPlot: Data Visualization for Statistics in Social Science

Daniel Lüdecke (Creator / Maintainer) and Carsten Schwemmer (Contributor), 2017

URL: https://strengejacke.github.io/sjPlot/

#### articles under review

Social Media Strategies of Right-Wing Movements [Revise & Resubmit]

Carsten Schwemmer

Self-Selection, Duty or Reward for Loyalty? The Politics of Select Committee Assignments in the British House of Commons

Jorge Fernandes, Thomas Saalfeld, and Carsten Schwemmer

### current working papers

Manipulative practices are the norm in political emails: evidence from 100K emails from the 2020 U.S. election cycle

Arunesh Mathur, Angelina Wang, Carsten Schwemmer, Maya Hamin, Brandon Stewart, and Arvind Narayanan

URL: https://electionemails2020.org/

Computational Social Science and Image Analysis for Studying Online Behavior (book chapter)

Carsten Schwemmer

Contesting the Mainstream: Understanding Alternative News Media

Carsten Schwemmer, Annett Heft, and Curd Knüpfer

Immigrants, Immigration and Integration as Topics in Parliamentary Questions – Similarities and Differences in the Discursive Environment of Representation (book chapter)

Lucas Geese, Thomas Saalfeld, Carsten Schwemmer, and Daphne Van der Pas

Immigrant Integration Policies and Descriptive Political Representation (book chapter)

Daniela Vintila, Simona Guerra, Angeliki Konstantinidou, and Carsten Schwemmer

# conferences, talks & workshops

#### Image Recognition for Social Science Research

Sektion: aktuelle Themen der empirischen Sozialforschung, Sept. 2020, Kongress der Deutschen Gesellschaft für Soziologie

Whose ideas are worth spreading? The representation of women and ethnic groups in TED talks

Obserseminar Digital Humanities, June 2020, University of Passau

Creating open source software as part of an academic career

Panel Speaker, June 2020, SICSS Festival. https://www.youtube.com/watch?v=FpNEBQua0FA

Big Data und die Rolle der Sozialwissenschaften

Chair for Political Sociology - Guest Lecture, May 2020, University of Bamberg

Diagnosing Gender Stereotypes and Other Cultural Biases in Image Recognition

Center for Information Technology Policy - Lunch Seminar, Feb. 2020, Princeton University

Mapping and Accounting for Gender Stereotypes in Commercial Image Recognition Systems

Computer Science Group for Biases in Artificial Intelligence, Nov. 2019, Princeton University

Social Media Strategies of Right-Wing Movements - The Radicalization of Pegida

European Symposium on Societal Challenges in Computational Social Science - Polarization and Radicalization, Sept. 2019, Zurich

Whose Ideas are Worth Spreading? The Representation of Women and Ethnic Groups in TED Talks

Digital Societies - Academy of Sociology 2nd Conference, Sept. 2019, Constance

Organizer of SICSS 2019 Bamberg Partner Institute

Summer Institute in Computational Social Science, Aug. 2019, Bamberg

Potentials and Biases of Image Recognition Algorithms

IC2S2 - 5th International Conference on Computational Social Science, July 2019, Amsterdam

Tutorial - Structural topic models for enriching quantitative text analysis

IC2S2 - 5th International Conference on Computational Social Science, July 2019, Amsterdam

Media Bias Towards African-Americans Before and After the Charlottesville Rally

The 2nd Weizenbaum Conference - Challenges of Digital Inequality, May 2019, Berlin

# The Politics of Social Media Images: Potentials and Biases of Image Recognition Algorithms for Studying Congressional Behavior

European Symposium Series on Societal Challenges in Computational Social Science, Dec. 2018, GESIS, Cologne

#### Ride with Me - Ethnic Discrimination, Social Markets and the Sharing Economy

ECSR Conference on Causes and Consequences of Inequalities in Europe, Oct. 2018, Sciences Po, Paris

Parliamentary Careers, Electoral Vulnerability and Constituency Focus in the British House of Commons, 2001-2015 ECPR General Conference in Panel "Non-Legislative Activity in Legislatures", Aug. 2018, University of Hamburg

#### Participant of workshop for Text as Data in the Social Sciences

Bamberg Graduate School of Social Sciences, Brandon Stewart, July 2018

#### Participant of CSS 2018

GESIS Summer School Series on Methods for Computational Social Science, July 2018, University of Southern California

#### Participant of SICSS 2018

Summer Institute in Computational Social Science, June 2018, Duke University

#### Social Media Sellout - The Increasing Role of Product Promotion on YouTube

Weizenbaum Symposium 2018 - The Future of Work and Innovation in a Networked Society, May 2018, Technische Universität, Rerlin

# The Representation of Disadvantaged Groups in the Digital Sphere - TED Talks and their Public Perception on YouTube European Symposium Series on Societal Challenges in Computational Social Science, Nov. 2017, Alan Turing Institute, London

#### Communication Dynamics of Populist Movements: An Analysis of the German Protest Group Pegida

Annual BAGSS Conference in Panel "Xenophobia", Sept. 2017, University of Bamberg

#### Ride with me. Ethnic Discrimination in Online Car-Pooling Markets

International Conference on Computational Social Science, July 2017, Cologne

#### Participant of workshop for Structure Equation Modeling

Leibniz-Institut für Bildungsverläufe, Ulrich Schroeders, Feb. 2017

#### We are the people. Communication dynamics of the right-wing movement PEGIDA

GESIS Computational Social Science Wintersymposium, Dec. 2016, Cologne

#### Substantive Representation and CIO MPs: Topic Models and Sentiment Analysis of Legislative Speech

ECPR General Conference in Panel "Assessing the Inclusion of Citizens of Immigrant Origin in National Parliaments in Europe", Sept. 2016, University of Prague

# Institutions and Legislative Speech: When Do MPs of Immigrant Origin Get To Speak on the Floor of the Chamber - and What Do They Get to Speak About?

ECPR General Conference in Panel "Parliamentary Rules and the Representation of Minority Preferences", Sept. 2016, University of Prague

#### We are the people. Dynamics of the right-wing movement PEGIDA

KOSMOS Workshop "Migrants, Refugees and Global Justice: Comparative Perspectives in Societies of Migration" in Plenary Session "Immigration and Racism", Sept. 2016, Humboldt University of Berlin

#### Xenophobia before and after the Paris 2015 Attacks. Evidence from a Natural Experiment

KOSMOS Workshop "Migrants, Refugees and Global Justice: Comparative Perspectives in Societies of Migration" in Plenary Session "Immigration and Racism", Sept. 2016, Humboldt University of Berlin

#### The Substantive Representation of Immigrant-Origin Citizens in Germany's Mixed-Member System

Annual BAGSS Conference in Panel "Migration", July 2016, University of Bamberg

#### Participant of workshop for Bayesian Statistics

Bamberg Graduate School of Social Science, David Kaplan, May 2016

#### Substantive Representation and CIO MPs: A First Approach in Four European Democracies

ECPR Joint Session Workshop "The Representation of Citizens of Immigrant Origin in Established Democracies", Apr. 2016, University of Pisa

### Substantive Representation and immigrant-origin MPs: First content analysis of legislative floor activities

PATHWAYS workshop "Presentation of preliminary findings event", Feb. 2016, London Institute for Government

#### Anwendungen von Topic Models auf einen Text-Corpus mit parlamentarischen Fragen in Großbritannien

# peer reviews

I reviewed manuscripts for journals such as European Sociological Review, Journal of Ethnic and Migration Studies and Information, Communication & Society. A complete list of reviews is available at my Publons profile:

https://publons.com/researcher/1727119/carsten-schwemmer/peer-review/

# media mentions

2020	Article about my research on gender bias in image recognition. Wired https://www.wired.com/story/ai-sees-man-thinks-official-woman-smile/
2020	Article about my research on gender bias in image recognition [in German] Golem https://www.golem.de/news/machine-learning-ki-bewertet-frauen-haeufiger-nach-aussehen-2011-152322.html
2020	Article about my research on gender bias in image recognition. Biometric Update https://www.biometricupdate.com/202011/for-image-recognition-systems-the-world-still-looks-like-daddy-knows-best-research
2020	Article about my research on manipulative practices in political emails. Washington Post  https://www.washingtonpost.com/outlook/trumps-campaign-lures-donors-with-absurd-financial-promisesand-insults/2020/10/09/ff3ea62c-08ef-11eb-9be6-cf25fb429f1a_story.html
2020	Article about my research on manipulative practices in political emails.  https://www.vice.com/en/article/k7qm9y/campaign-political-emails-study-princeton-university
2019	Article about my research on the representation of women and ethnic groups in TED talks.  Economic Times  https://economictimes.indiatimes.com/magazines/panache/ted- talks-get-a-spike-in-10-years-influential-speeches-become-new- career-option-for-women/articleshow/71007077.cms
2019	Radio interview about the use of algorithms for social science research. [in German]  NDR  https://www.ndr.de/info/Algorithmen-decken-Diskriminierung- auf,audio555760.html
2019	Press release about my research related to studying inequalities with computational methods and digital trace data. [in German]  University of Bamberg https://www.uni-bamberg.de/presse/pm/artikel/soziale-ungleichheiten-internet/
2018	Radio interview about the Facebook data affair and potential consequences for Social Science Research. [in German] detektor.fm https://detektor.fm/digital/datenskandal-und-wissenschaft

Focus Online article about my paper "Ride with Me - Ethnic Discrimination, Social Markets and the Sharing Economy". [in German]

https://www.focus.de/auto/ratgeber/unterwegs/araber-und-tuerken-im-nachteil-studie-behauptet-mitfahr-dienste-in-deutschland-haben-rassismus-problem\_id\_9580399.html

Article in the Bild newspaper about my paper "Ride with Me - Ethnic Discrimination, Social Markets and the Sharing Economy". [in German, paywalled]

https://www.bild.de/bild-plus/geld/wirtschaft/wirtschaft/mitfahrgelegenheiten-deutsche-wollen-nicht-mit-auslaendern-fahren-57034484

# research grants and & external funding

Funding for SICSS Partner Institute by Russel Sage Foundation, Sloan Foundation, Academy of Sociology, University of Konstanz and Center for Data and Methods

in collaboration with Prof. Karsten Donnay, Prof. Peter Selb and Prof. Susumu Shikano

https://compsocialscience.github.io/summer-institute/2020/

konstanz/

2019 Funding for SICSS Partner Institute by Russel Sage Foundation, Sloan Foundation and Bamberg Graduate School of Social Science 30,000 Euro

in collaboration with Prof. Thomas Saalfeld and Julian Hohner

https://compsocialscience.github.io/summer-institute/2019/

bamberg/

in preparation KID - Künstliche Intelligenz im Diskurs

research proposal in preparation for submission to Federal Ministry of Education & Research (BMBF) in collaboration with Prof. Raphael Heiko Heiberger

in preparation Political Influencers in Germany - An Evaluation of Mobilization Strategies and Digital Media Policies for Political Advertisement

research proposal in preparation for submission to the Deutsche Forschungsgemeinschaft (DFG)

# awards, scholarships & list positions

2020	<b>Number 2 on list for Junior Professorship "Computational Social Science"</b> University of Konstanz	
2018	<b>Best Poster Award</b> European Symposium Series on Societal Challenges in Computation Science, Cologne	250 Euro nal Social
2018	<b>Best Project Award (Runner Up)</b> GESIS Summer School Series on Methods for Computational Social Los Angeles	Science,
2018	Support Scholarship for GESIS Summer School  Bamberg Graduate School of Social Science	3,000 Euro

2018	Russell Sage Foundation: Support Scholarship for Summer Institute in Computationa Social Science  Duke University	al
2016	Bamberg Graduate School of Social Science: One Year PhD Starter Scholarship (de clined)  15,000 Eur	

# teaching

SS 2020	Hands-On Introduction to Data Scraping University of Stuttgart. Online seminar with YouTu https://github.com/cschwem2er/python_data		
SS 2019	Summer Institute: Automated Text Analysis SICSS 2019 Bamberg. https://github.com/compsocialscience/summer-institute/tree/master/2019/bamberg/materials/day4-text-analysis		
SS 2019	Summer Institute: Collecting Digital Trace Data SICSS 2019 Bamberg. https://github.com/compsocialscience/summer- institute/tree/master/2019/bamberg/materials/day2-digital- trace-data		
SS 2019	Summer Institute: Research Ethics SICSS 2019 Bamberg. https://github.com/coinstitute/raw/master/2019/bamberg/materia		
SS 2019	Tutorial: Structural topic models for enriching quantit IC2S2 Conference. https://github.com/cschw		
SS 2019	<b>Workshop: Introduction to Structural Topic Modeling</b> Weizenbaum Institute for the Networked Society	-	
SS 2019	<b>Hands-On Introduction to Data Scraping</b> University of Bamberg	avg. evaluation: 6.17 / 7 (7 = best)	
WS 2018/19	<b>Introduction to Quantitative Text Analysis</b> University of Konstanz	avg. evaluation: 1.33 / 5 (1 = best)	
WS 2018/19	<b>Hands-On Introduction to Data Scraping</b> University of Konstanz	avg. evaluation: 1.86 / 5 (1 = best)	
SS 2018	<b>Hands-On Introduction to Data Scraping</b> Skills Camp for Berlin Network of Labor Market R	avg. evaluation: 6.35 / 7 (7 = best) esearch	
SS 2018	<b>Hands-On Introduction to Data Scraping</b> Skills Camp for Berlin Network of Labor Market R	avg. evaluation: 6.35 / 7 (7 = best) esearch	
SS 2018	<b>Methods of Political Sociology</b> University of Bamberg	avg. evaluation: 5.83 / 7 (7 = best)	
WS 2017/18	<b>Collecting Digital Trace Data</b> Humboldt University Berlin	avg. evaluation: 6.06 / 7 (7 = best)	
WS 2017/18	<b>Introduction to Quantitative Text Analysis</b> University of Bamberg	avg. evaluation: 5.91 / 7 (7 = best)	
SS 2017	Introduction to Data Scraping Humboldt University Berlin	avg. evaluation: 6.33 / 7 (7 = best)	
SS 2017	<b>Methods of Political Sociology</b> University of Bamberg	avg. evaluation: 6.28 / 7 (7 = best)	

WS 2016/17 Methods of Political Sociology
University of Bamberg

SS 2016 Methods of Political Sociology
University of Bamberg

WS 2015/16 Methods of Political Sociology
University of Bamberg

WS 2015/16 Introduction to Quantitative Text Analysis
University of Bamberg

avg. evaluation: 6.75 / 7 (7 = best)

avg. evaluation: 6.50 / 7 (7 = best)

avg. evaluation: 5.27 / 7 (7 = best)