

CURRICULUM VITAE

Dr. Karsten Donnay

Assistant Professor of Computational Social Science

Center for Data and Methods

Department of Politics and Public Administration

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Employment

Assistant Professor of Computational Social Science, Department of Politics and Public Administration, University of Konstanz, since 2016

Postdoctoral Researcher, National Consortium for the Study of Terrorism and Responses to Terrorism (START), University of Maryland, 2015-2016

Visiting Lecturer, Department of International Relations & Political Science at the Graduate Institute Geneva, 2015-2016

Postdoctoral Researcher, Department of International Relations & Political Science at the Graduate Institute Geneva, 2014-2016

Postdoctoral Researcher, Department of Humanities, Social and Political Sciences at ETH Zürich, Professorship of Computational Social Science, 2014-2015

Education

ETH Zürich

Dr. sc., Department of Humanities, Social and Political Science, 2010-2014

Dissertation: "Disaggregating Civil Conflict"

Committee: Dirk Helbing, Ravi Bhavnani, Scott E. Page

TU München

Dipl. Phys., Department of Physics, 2008-2009

Major fields: Theoretical Physics, Complex Systems

McGill University

Graduate studies, Department of Physics, 2007-2008

Major fields: Theoretical Physics, Complex Systems

TU München

Undergraduate studies, Departments of Physics and Mathematics, 2004-2007

Major fields: Physics, Mathematics

Research Interests

Micro-foundations of social (interaction) dynamics:

social influence through traditional and online media

media bias and its influence on collective decision making

political instability and conflict

malnutrition prediction and early warning

Advanced quantitative methodology:

statistical analysis of micro-level data on social processes

large-scale data processing and big data analytics

causal inference in spatiotemporal data

geospatial analysis and geographic information systems (GIS)

Academic Honors and Fellowships

- 2019 Fellowship of the Academy of Sciences of Baden Württemberg for outstanding junior researchers (WIN-Kolleg)
- 2015 *American Journal of Political Science* Best Article Award for “Group Segregation and Urban Violence”
- 2015 Nominated for ETH Dissertation Award (ETH Medal)
- 2015 Nominated for Swiss Network for International Studies (SNIS) Award 2015
- 2015 Nominated for Swiss Institute of International Studies (SIAF) Award 2015

Grants

- 2019 – 2021 WIN Program: *Fake News and Collective Decision Making – Rapid Automated Assessment of Media Bias* (project lead, total grant volume: EUR 227,500)
- 2019 Politics of Inequality Excellence Cluster Seed Grant for *Determinants in Personal Information Environments that lead to Perceptions of Inequality* (project co-lead, total grant volume: EUR 57,980)
- 2019 Politics of Inequality Excellence Cluster Seed Grant for *Mobilising Inequalities: From Grievances to Conflict* (project co-lead, total grant volume: EUR 65,600)
- 2019 Uni Konstanz: Extension of the joined high-performance computing resources of the Center for Data and Methods and the Department of Politics and Public Administration (project lead, total grant volume: EUR 58,600)
- 2018 – 2021 DFID: *Modeling Early Risk Indicators to Anticipate Malnutrition*, MERIAM (project co-lead, total grant volume: GBP 2,750,000)
- 2014 – 2018 NSF INSPIRE: *Computational Modeling of Grievances and Political Instability through Global Media* (postdoctoral researcher, total grant volume: USD 2,594,533)
- 2017 – 2018 Zukunftskolleg University of Konstanz: Interdisciplinary Collaborative Research Project (project co-lead, total grant volume: EUR 9,842)
- 2014 – 2018 MINERVA: *Aiding Resilience? The Impact of Foreign Assistance on the Dynamics of Intrastate Armed Conflict* (postdoctoral researcher, total grant volume: USD 1,799,920).

Professional Service

Manuscripts:

Political Science: American Political Science Review; American Journal of Political Science; British Journal of Political Science; Journal of Conflict Resolution; Journal of Peace Research; Research & Politics; Political Science Research and Methods; Political Geography; European Political Science Review; Terrorism and Political Violence; Peace Economics, Peace Science and Public Policy

General Interest and Methodology: Nature; Physical Review Letters; Physical Review E; Palgrave Communications; Journal of the Royal Society Interface; Scientific Reports; Annals of Applied Statistics; Advances in Complex Systems; PLoS ONE; Journal of Artificial Societies and Social Simulation

Editorial Board: Palgrave Communications

Grant Proposals: German Research Foundation (DFG); Minerva Research Initiative

LIST OF PUBLICATIONS

Peer-reviewed Articles

- Karsten Donnay, Eric T. Dunford, Erin C. McGrath, David Backer and David C. Cunningham. (2019). "Integrating Conflict Event Data." *Journal of Conflict Resolution* 63(5): 1337-1364.
- Seth Frey, Karsten Donnay, Dirk Helbing, Robert W. Sumner and Maarten W. Bos. (2018). "The Rippling Dynamics of Valenced Messages in Naturalistic Youth Chat." *Behavior Research Methods* doi: 10.3758/s13428-018-1140-6.
- Felix Hamborg, Karsten Donnay and Bela Gipp. (2018). "Automated Identification of Media Bias in News Articles: An Interdisciplinary Literature Review." *International Journal on Digital Libraries* doi: 10.1007/s00799-018-0261-y
- Karsten Donnay. (2017). "Big Data for Monitoring Political Instability." *International Development Policy* 8.1 (Online).
- Viktoria Spaiser, Thomas Chadeaux, Karsten Donnay, Fabian Russmann and Dirk Helbing. (2017). "Communication Power Struggles on Social Media: A Case Study of the 2011-12 Russian Protests." *Journal of Information Technology & Politics* 14(2): 132-153.
- Dirk Helbing, Dirk Brockmann, Thomas Chadeaux, Karsten Donnay, Ulf Blanke, Olivia Woolley-Meza, Mehdi Moussaid, Anders Johansson, Jens Krause, Sebastian Schutte and Matjaz Perc. (2015). "Saving Human Lives: What Complexity Science and Information Systems can Contribute." *Journal of Statistical Physics* 158(3): 735-781.
- Ravi Bhavnani, Karsten Donnay, Dan Miodownik, Maayan Mor and Dirk Helbing. (2014). "Group Segregation and Urban Violence." *American Journal of Political Science* 58(1): 226-245 [Recipient of the *AJPS Best Article Award 2015*]
- Sebastian Schutte and Karsten Donnay. (2014). "Matched Wake Analysis: Finding Causal Relationships in Spatiotemporal Event Data." *Political Geography* 41: 1-10.
- Karsten Donnay and Vladimir Filimonov. (2014). "Views to a War: Systematic Differences in Media and Military Reporting of the War in Iraq." *EPJ Data Science* 3:25.
- Matjaz Perc, Karsten Donnay and Dirk Helbing. (2013). "Understanding Recurrent Crime as System-Immanent Collective Behavior." *PLoS ONE* 8(10): e76063.
- Ravi Bhavnani and Karsten Donnay. (2012). "Here's Looking at You: The Arab Spring and Violence in Gaza, Israel and the West Bank." *Swiss Political Science Review*, 18(1): 124-131.

Contributions to Books

- Karsten Donnay, Andrew M. Linke and Ravi Bhavnani. (2017). "Generalizing Findings from Micro-Level Research on Peace and Conflict: Challenges and Solutions." In David Backer, Ravi Bhavnani, and Paul Huth (eds.) *Peace and Conflict 2017*. New York, NY: Routledge, 4-15.
- Karsten Donnay and Ravi Bhavnani. (2016). "The Cutting Edge of Research on Peace and Conflict." In David A. Backer, Ravi Bhavnani, and Paul K. Huth (eds.) *Peace and Conflict 2016*. New York, NY: Routledge, 4-18.
- Karsten Donnay, Elena Gadjanova and Ravi Bhavnani. (2014). "Disaggregating Conflict by Actors, Time, and Location." In David A. Backer, Paul K. Huth, and Jonathan Wilkenfeld (eds.) *Peace and Conflict 2014*. New York, NY: Routledge, 44-56.