















# Jan Lorenz

Assistant Professor of Social Data Science at Constructor University

## Contact

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-  GitHub: janlorenz
-  Bluesky: janlo.de
-  Mastodon: datasci.social/janlo
-  LinkedIn

## Programming

- R** 10+ yrs.
- NetLogo** 10+ yrs.
- Python** 2 yrs.
- Quarto** 3 yrs.

## Summary

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## Academic Positions

Besides my first two and a half year postdoc at ETH Zurich, I have been working mostly in the larger Bremen Research Area with a focus on Jacobs/Constructor University. This is the full list.

### Assistant Professor of Social Data Science

2022-04 - 2028-03

School of Business, Social and Decision Sciences  
Constructor University Bremen gGmbH (former Jacobs University)

Study Program Co-Coordinator for *MSc. in Data Science for Society and Business*

### Postdoctoral Fellow

2019-04 - 2021-12

Department of Psychology and Methods  
Jacobs University Bremen gGmbH

Position in the DFG funded research project ToRealSim (PI: Klaus Boehnke, mainly authored by Jan Lorenz)

### Research Associate

2019-01 - 2019-09

Complex Systems Lab, Institute for Theoretical Physics  
Universität Bremen

Supervisor: Stefan Bornholdt

### Postdoctoral Researcher (80%)

2018-03 - 2018-09

Department of Computational Social Science  
GESIS Leibniz-Institut für Sozialwissenschaften, Köln

Supervisor: Claudia Wagner

### Postdoctoral Fellow

2014-10 - 2017-09

Department of Psychology and Methods  
Jacobs University Bremen gGmbH

PI (eigene Stelle) in the DFG funded research project Opinion Dynamics and Collective Decisions: Procedures, Behavior, and Systems Dynamics

### Lecturer (50%)

2014-04 - 2014-09

Institut für Sozialwissenschaften  
Carl von Ossietzky Universität Oldenburg

Political Science Seminars, Supervisor: Markus Tepe

### Postdoctoral Fellow

2012-10 - 2014-03

School of Humanities and Social Sciences

Working on the project *Social Cohesion Radar* funded by the Bertelsmann Stiftung (PI: Klaus Boehnke)

## Skills

**Data Analysis** 10+ yrs.



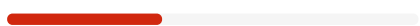
**Agent-based Modeling** 10+ yrs.



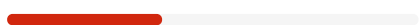
**Applied Mathematics** 15+ yrs.



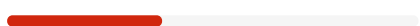
**Network Analysis** 10+ yrs.



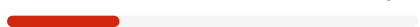
**Text Analysis** 5 yrs.



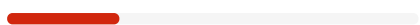
**Political Science** 10+ yrs.



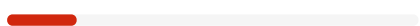
**Economics** 10+ yrs.



**Psychology** 10+ yrs.



**Sociology** 10+ yrs.



## Tools

- Positron/RStudio
- Git
- Terminal
- Ubuntu Linux

## Education

09/2012 - 11/2015

**Ph.D. Computer Science**

University of Konstanz

Thesis: Positional Approach for Network Centrality

10/2006 - 07/2012

**Businessmathematics (Dipl.)**

Karlsruhe Institute of Technology

Thesis: Modularity Maximization

**Research Associate (50-75%)**

Institut für Sozialwissenschaften  
Carl von Ossietzky Universität Oldenburg

Research and Manager of Experimental Lab, Supervisor: Bernhard Kittel

2010-01 - 2012-09

**Postdoc (50-75%)**

Chair of Systems Design  
ETH Zurich

Supervisor: Frank Schweitzer

2007-04 - 2009-10

## Education

**Habilitation**

Computational Social Science  
Jacobs University Bremen

Finalized 2017-10

**Dr. rer. nat. Mathematics**

Universität Bremen  
Supervisor: Ulrich Krause, Rainer Hegselmann

2004-01 - 2007-03

**Diplom Mathematiker**

Universität Bremen

Finalized 2003-03

## Grants

**R packages**

Creator and Maintainer

edgebundle, graphlayouts, levelnet, netrankr, netUtils, networkdata, PSAWR, roughnet, roughsf, rtoot, Rtumblr, signnet, snahelper, webbotparseR, webtrackR

**R packages**

Contributor

backbone, ggraph, multigraphr, netropy, rang, rgraph6

**Quarto extensions**

Creator and Maintainer

Academicons (shortcodes), Blackboard (revealjs theme), sketchy (html theme), share buttons (filter), nutshell (filter), quartocities (website template), quartocv (cv templates)

**soccerverse.com (football analytics website)**

Creator and Maintainer

Manual and automated gathering of football results around the world, Harmonizing data (e.g. club names and managers), Implementation of ranking algorithms, Predicting of league tables and matchforecasting, Uses R, JavaScript, HTML, and CSS, around 1000 visitors/month

## Memberships

## Awards

## Teaching

## Scientific Services

## Publications

📌 *Google Scholar* profile by recent years ↓

📌 *Google Scholar* profile by citation impact ★

1. Gestefeld, M., Lorenz, J., Henschel, N. T., & Boehnke, K. (2022). Decomposing attitude distributions to characterize attitude polarization in Europe. *SN Social Sciences*, 2(7), 110. <https://doi.org/10.1007/s43545-022-00342-7>