

Christine Hedde - von Westernhagen

Utrecht · Netherlands

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Research interests: Social network analysis, sustainability transitions, complex systems, causal inference.

Education

DEGREE PROGRAMS

Utrecht University, Methodology and Statistics for the Behavioural, Biomedical and Social Sciences, M.Sc. · GPA: 8.44/10 (Dutch grading system) 2021 - 2023

- Course work: Mathematical statistics, survey data analysis, Bayesian statistics, R programming, biomedical statistics, causal inference methods, structural equation modeling, multi-level modeling, psychometrics, supervised and unsupervised learning methods

- Thesis: “Predicting Covid-19 infections using multi-layer centrality measures”
Supervisors: Javier Garcia-Bernardo, Ayoub Bagheri · Grade: 8.5

University of Bremen, Political Science, B.A. · GPA: 1.44 (German grading system) 2017 - 2021

- Specializations: Political System of Germany, Comparative Politics and European Politics, Policy and Welfare State Research, Quantitative Research Methods

- Thesis: “Colonial-Era Missions and Long-Term Consequences for Education in Africa: A Replication Study”
Supervisors: Bastian Becker, Nate Breznau · Grade: 1.3

ADDITIONAL COURSES

Radboud University Nijmegen, Summer School on Social Research Methods, “Inferential Network Analysis” 07/2022

- One-week course on network inference methods, including Exponential Random Graph Models, Stochastic Actor Oriented Models, Latent Space Models, Relational Event Models

Employment

PhD Candidate, *Eindhoven University of Technology*, Department of Industrial Engineering and Innovation Sciences 09/2023 - present

- Research for the ERC project “FAST: Fostering social tipping dynamics to accelerate sustainability transitions”, Supervisors: Floor Alkemade, Karlijn van den Broek
- Teaching assistance for BSc course “Statistics for Sustainable Innovation”

Student Research Assistant, *Utrecht University*, Department of Methodology and Statistics 10/2022 - 08/2023

- Large scale data preparation for the *ODISSEI* summer school on Computational Social Science
- Data analysis and writing for a paper about COVID-19 transmission in the Dutch population
- Maintaining the website of the Natural Language Processing Group

Tutor for statistics, *University of Bremen*, Faculty of Social Sciences 10/2020 - 04/2021

Student Research Assistant, *University of Bremen*

01/2019 - 09/2020

ERC Project “The Legacy of Colonialism: Origins and Outcomes of Social Protection”

- Digitizing historical data sources, editing and visualization of geospatial data, writing for publication

Project “Moving for the Kids”

- Management of survey data, acquisition of administrative data, exploratory data analyses
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Volunteering

Data science volunteer, *CorrelAid*

09/2020 - 12/2021

- Project lead for automating R Markdown reports on diversity experiences in cooperation with *Citizens for Europe*
- Participation in internal workshops and organisational tasks

Student representative, *University of Bremen*

12/2019 - 10/2020

- Member of the appointments committee for the chair of *Sociology and Quantitative Research Methods for the Social Sciences*
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Skills

Languages

German (native)

English (fluent, Cambridge Certificate in Advanced English - 205pts./CEFR C2)

French (intermediate)

Dutch (intermediate)

Software and Programming

R (incl. R Markdown and Shiny), Python, STATA, Git, \LaTeX , QGIS

Projects and Publications

Data Analysis and Visualization

Co-authorship network of the *SOCIUM* research center

- Data collection on co-authorship relations and working paper on temporal network formation [Repository]
- Tutorial on network analysis in R and Python (given at a *CorrelAid Bremen* meet-up, [Repository])

Academic Writing

Hedde-von Westernhagen, C., Garcia-Bernardo, J., Bagheri, A. (*submitted*): Predicting COVID-19 Infections Using Multi-layer Centrality Measures in Population-scale Networks.

· *Preprint*: <https://arxiv.org/abs/2310.14767>

Hedde-von Westernhagen, C., Becker, B. (2022): Mapping Missions: New Data for the Study of African History, *Research Data Journal for the Humanities and Social Sciences*, 7(1), 1-33. <https://doi.org/10.1163/24523666-bja10027>

· *Dataset*: Hedde - von Westernhagen, C., Becker, B. (2022). "Mapping Missions: New Data for the Study of African History (Dataset)", <https://doi.org/10.7910/DVN/E9EEMQ>, Harvard Dataverse, V1

References

Floor Alkemade, PhD: Professor at the Department of Industrial Engineering & Innovation Sciences, Eindhoven University of Technology, Groene Loper, 5612 AE Eindhoven. f.alkemade@tue.nl ✉

Bastian Becker, PhD: Postdoc at the Department of Social Sciences, Humboldt University Berlin, Universitätsstrasse 3b, 10117 Berlin. bastian.becker@hu-berlin.de ✉

Javier Garcia-Bernardo, PhD: Assistant Professor at the Department of Methodology and Statistics, Utrecht University, Padualaan 14, 3584 CH Utrecht. j.garciabernardo@uu.nl ✉