# Andreas Küpfer

### **Computational Social Scientist**

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**y** @ankuepfer

I analyze multimodal political communication, including social media, speeches, and press releases, using a combination of machine learning models and traditional methods to address substantial questions in Political Science and advance methodological research.

### **Current Position**

2022-present

Ph.D. Candidate and Research Associate

Technical University of Darmstadt

Supervisor: Prof. Christian Stecker (Technical University of Darmstadt)

Co-Supervisor: Dr. Christian Arnold (University Cardiff)

## **Education**

2019-2022

M.Sc. Data Science, University of Mannheim

Supervisor: Prof. Thomas Gschwend and Dr. Denis Cohen

Thesis: When local context trumps party unity: Using Twitter and NLP to explain

geographical heterogeneity in legislators' policy communication

2015-2019

B.Sc. Business Information Systems, University of Applied Science Karlsruhe

2017

ERASMUS Student, B.Sc. Informatics, Metropolia University of Applied Sciences

in Helsinki, Finland

# **Publications**

### **Under Review**

2022

The Role of Hyperparameters in Machine Learning Models and How to Tune

C. Arnold, L. Biedebach, A. Küpfer, M. Neunhoeffer

# **Working Papers**

2023

Non-random Tweet Mortality and Data Access Restrictions: Implications for the Study of Sensitive Topics on Twitter

A. Küpfer

2023

How Alignment Helps Make the Most of Multimodal Data

C. Arnold, A. Küpfer

2022	What we can and cannot learn from responses to legislative speeches. Evidence from the German Bundestag, 1949-2021  A. Küpfer, J. Müller, C. Stecker
2022	The housing crisis on social media: Housing markets and the subnational diversification of policy supply  D. Cohen, A. Küpfer, T. Allinger
2022	Estimating legislator-level issue salience and issue positions from political text A. Küpfer, D. Cohen
	Research dissemination
	Conferences
2022	<b>DVPW Group Comparative research on parliaments</b> , Bremen, Germany What we can and cannot learn from responses to legislative speeches. Evidence from the German Bundestag, 1949-2021
2022	<b>EPSA</b> , Prague, Czech Republic When local context trumps party unity: Using Twitter and NLP to explain geographical heterogeneity in legislators' policy communication
2022	<b>PolMeth Europe</b> , Hamburg, Germany When local context trumps party unity: Using Twitter and NLP to explain geographical heterogeneity in legislators' policy communication
2021	PolMeth Europe, Virtual
	Press
2023	<u>Der Frankfurter Wahlkompass VOTO zur OB-Wahl 2023</u> , <u>FAZ</u> (with Thilo Dieng and Christian Stecker)
2023	Wahlrecht ab 16, mehr autofreie Zonen und gebührenfreie Kinderbetreuung? <u>Die Positionen der Kandidierenden zur Oberbürgermeisterwahl in Darmstadt in der Online-Wahlhilfe VOTO</u> , <u>Darmstädter Echo</u> (with Christian Stecker)
2023	Wahlkompass bietet Orientierung im Kandidatendschungel (FAZ), (with Christian Stecker)
2023	<u>Viele Köpfe und ein breites Angebot. Die Positionen der Kandidierenden zur Frankfurter Oberbürgermeisterwahl</u> , <u>FAZ</u> (with Christian Stecker)
	Web Publications
2023	<b>BERT and Explainable AI</b> , Method Bites, Blog of the Mannheim Centre for European Research (MZES) Social Science Data Lab
2022	Collection, Management, and Analysis of Twitter Data, Method Bites, Blog of the Mannheim Centre for European Research (MZES) Social Science Data Lab

#### Software

2022 trivici, Triangular visualizations for the significance of pairwise differences from multigroup comparisons (Denis Cohen and Andreas Küpfer) **Teaching** 2023 Quantitative Text Analysis in R, Postgraduate seminar, Technical University of Darmstadt 2023 Data Analysis: From Data Crawling to Visualization, Guest Lecture (180 minutes), National University of Kyiv-Mohyla Academy 2023 Getting started with Python: A how-to guide for social scientists, Workshop with two sessions à 90 minutes, MZES Social Science Data Lab (with Ruben Bach) 2022 Introduction to Quantitative Methods in R, Postgraduate seminar, Technical University of Darmstadt 2022 Collection, Management, and Analysis of Twitter Data: Using the Twitter API for Academic Research and BERT, Workshop (90 minutes), MZES Social Science Data Lab 2017 IT Security and Operating Systems, Undergraduate tutorial, University of Applied Sciences Karlsruhe 2016 Programming II, Undergraduate tutorial, University of Applied Sciences Karlsruhe 2016 Introduction to Business Informatics, Undergraduate tutorial, University of Applied Sciences Karlsruhe Selected work experience (Academia) 03/2021-present Research Assistant at Social Science Data Lab, MZES (Dr. Denis Cohen) 10/2020-12/2021 Research Assistant at Chair of Political Science, Quantitative Methods in the Social Sciences, University of Mannheim (Prof. Thomas Gschwend) 09/2021-12/2021 Project Data Science and Big Data at Schools Prodabi, Paderborn University (Prof. Rolf Biehler) Selected work experience (Industry) 07/2018-02/2020 Working Student Data Science/Finance, SAP SE in Walldorf, Germany 02/2018-07/2018 Internship Custom Solution Development, Capgemini in Stuttgart, Germany