

Andreas Küpfer

Computational Social Scientist

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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 Them

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

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

- 2023 **EPSA^{p,d}**, Glasgow, Scotland
- 2023 **COMPTExT^{p,c}**, Glasgow, Scotland
- 2022 **DVPW Group Comparative research on parliaments^p**, Bremen, Germany
- 2022 **EPSA^p**, Prague, Czech Republic
- 2022 **PolMeth Europe^p**, Hamburg, Germany
- 2021 **PolMeth Europe**, Virtual

p = Presenter, d = Discussant, c = Panel Chair

Press

- 2023 [Der Frankfurter Wahlkompass VOTO zur OB-Wahl 2023](#), [FAZ](#) (with Thilo Dieng and Christian Stecker)
- 2023 [Wahlrecht ab 16, mehr autofreie Zonen und gebührenfreie Kinderbetreuung? Die Positionen der Kandidierenden zur Oberbürgermeisterwahl in Darmstadt in der Online-Wahlhilfe VOTO](#), [Darmstädter Echo](#) (with Christian Stecker)
- 2023 [Wahlkompass bietet Orientierung im Kandidatenschungel \(FAZ\)](#), (with Christian Stecker)
- 2023 [Viele Köpfe und ein breites Angebot. Die Positionen der Kandidierenden zur Frankfurter Oberbürgermeisterwahl](#), [FAZ](#) (with Christian Stecker)

Web Publications

- 2023 [BERT and Explainable AI](#), 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