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

Forthcoming   **The Role of Hyperparameters in Machine Learning Models and How to Tune Them**
C. Arnold, L. Biedebach, *A. Küpfer*, M. Neunhoeffer
Political Science Research and Methods (PSRM)

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	**ECPR Standing Group on Parliaments**[p,d,c], Vienna, Austria
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 Kandidatendschungel (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