Andreas Küpfer

Computational Social Scientist

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I analyze multimodal political communication, including social media, speeches, and advertisements, 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

2024	**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)
Cond. Accept	**Non-random Tweet Mortality and Data Access Restrictions: Compromising the Replication of Sensitive Twitter Studies** *A. Küpfer* Political Analysis (PA)

Working Papers

2023	**How Alignment Helps Make the Most of Multimodal Data** C. Arnold, *A. Küpfer*

2024	**Structuring Quantitative Image Analysis with Metric Depth** C. Arnold, *A. Küpfer*
2023	**The Temporal Dimension of Parliamentary Dialogue: When are MPs Seeking and Avoiding Discourse Strategically?** E. Koch, *A. Küpfer*
2024	**Gendered patterns of parliamentary behavior: Do men and women differ when asking questions during debates?** C. Juen, E. Koch, *A. Küpfer*, C. Stecker
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

Research Dissemination

Conferences

2023	**IASGP Annual Conference 2023**[p], Mannheim, Germany
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 Dieing 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	**triviz**, Triangular visualizations for the significance of pairwise differences from multigroup comparisons (Denis Cohen and *Andreas Küpfer*)

Teaching

2024	**Introduction to Analyis and Comparison of Political Systems**, Undergradute proseminar, Technical University of Darmstadt
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, 2023	**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

Awards

Athene Award for excellent teaching (TU Darmstadt) (11/2023)

Referee

Political Analysis

Community Service

Co-Organizer of the 2024 ECPR Summer School on Parliaments (08/2024) • Member of the decision committee for the German public-private scholarship (Deutschlandstipendium) (since 11/2023) • Data infrastructure representative (since 11/2023)

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