# 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

Supervisors: Christian Stecker (Technical University of Darmstadt) and Christian Arnold

(Cardiff University)

### **Education**

2019-2022 M.Sc. Data Science, University of Mannheim

Supervisors: Thomas Gschwend and 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 Sciences Karlsruhe

2017 ERASMUS Student, B.Sc. Informatics, Metropolia University of Applied Sciences in

Helsinki, Finland

# **Research Visits and Summer Schools**

06/2024 Video Research Institute, Center for C-SPAN Scholarship & Engagement (CCSE) (Bryce

Dietrich), Purdue University, US

Centre for Artificial Intelligence in Government (CAIG) (Slava Jankin), University of 02/2024-03/2024

Birmingham, UK

## **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)

Nonrandom Tweet Mortality and Data Access Restrictions: Compromising the

**Replication of Sensitive Twitter Studies** 

A. Küpfer

Political Analysis (PA)

#### **Working Papers**

How Alignment Helps Make the Most of Multimodal Data 2023 C. Arnold, A. Küpfer Structuring Quantitative Image Analysis 2024 C. Arnold, A. Küpfer 2023 The Temporal Dimension of Parliamentary Dialogue: When are MPs Seeking and **Avoiding Discourse Strategically?** E. Koch, A. Küpfer Applause and interjections as tools of party competition: Evidence from 70 years of 2022 debates in the German Bundestag 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

COMPTEXTP, Amsterdam, Netherlands

#### Conferences

2024

2023	IASGP Annual Conference 2023P, Mannheim, Germany
2023	ECPR Standing Group on Parliaments <sup>p,d,c</sup> , Vienna, Austria
2023	EPSA <sup>p,d</sup> , Glasgow, Scotland
2023	COMPTEXT <sup>p,c</sup> , Glasgow, Scotland
2022	DVPW Group Comparative Research on Parliaments <sup>p</sup> , Bremen, Germany
2022	<b>EPSA<sup>p</sup></b> , Prague, Czech Republic
2022	PolMeth Europe <sup>p</sup> , Hamburg, Germany
2021	PolMeth Europe, Virtual
	p = Presenter, d = Discussant, c = Panel Chair
	Press
2023	<u>Der Frankfurter Wahlkompass VOTO zur OB-Wahl 2023</u> , <u>FAZ</u> (with Thilo Dieing 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	<u>Wahlkompass bietet Orientierung im Kandidatendschungel (FAZ)</u> , (with Christian Stecker)
2023	<u>Viele Köpfe und ein breites Angebot. Die Positionen der Kandidierenden zur</u> <u>Frankfurter Oberbürgermeisterwahl</u> , <u>FAZ</u> (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** Introduction to Analyis and Comparison of Political Systems, Undergradute proseminar, 2024 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 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

# **Awards**

2016

2016

Sciences Karlsruhe

Sciences Karlsruhe

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

**Programming II**, Undergraduate tutorial, University of Applied Sciences Karlsruhe **Introduction to Business Informatics**, Undergraduate tutorial, University of Applied

# Referee

Political Analysis • ZPol

# **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)

Student Research Assistant at Social Science Data Lab, Mannheim Centre for European 03/2021-present Research (MZES) (Denis Cohen)

10/2020-12/2021 Student Research Assistant at Chair of Political Science, Quantitative Methods in the

Social Sciences, University of Mannheim (Thomas Gschwend)

09/2021-12/2021 Project Data Science and Big Data at Schools Prodabi, Paderborn University (Rolf

Biehler)

# Selected Work Experience (Industry)

Working Student Data Science/Finance, SAP SE in Walldorf, Germany 07/2018-02/2020

02/2018-07/2018 Internship Custom Solution Development, Capgemini in Stuttgart, Germany