

Andreas Küpfer

Computational Social Scientist

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My research focuses on (multimodal) political communication, combining computational with traditional methods to address substantial questions on party competition and political behaviour.

Current Position

2022-present

Research Associate

Technical University of Darmstadt

Institute for Political Science (Christian Stecker)

Ph.D. Candidate in Political Science (Expected Defence in January 2026)

University of Mannheim

Supervisors: Thomas Gschwend (University of Mannheim), Christian Stecker (Technical University of Darmstadt), and Christian Arnold (University of Birmingham)

Thesis: *Multimodal Data and Open Science: Innovations in the Study of Political Communication and Behaviour*

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 (Studies Abroad), B.Sc. Informatics, Metropolia University of Applied Sciences in Helsinki, Finland

Publications

2025

[The sound of party competition: how applause reflects unity, disagreement, and the electoral cycle in parliaments](#)

A. Küpfer, J. Müller, C. Stecker

West European Politics

2025

[The Politics of Seeking and Avoiding Discourse in Parliament](#)

E. Koch, A. Küpfer

European Journal of Political Research

2024

[Nonrandom Tweet Mortality and Data Access Restrictions: Compromising the Replication of Sensitive Twitter Studies](#)

A. Küpfer

Political Analysis

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

Working Papers

Look Who's Confronting: Opposition Status, Gender, and the Far Right

A. Küpfer

Structuring Quantitative Image Analysis with Object Prominence

with C. Arnold

Alignment Helps Make the Most of Multimodal Data

with C. Arnold

Measuring Media Slant through Image Analysis

with C. Arnold, O. Rittmann, M. Torres

A Pipeline for Extracting Data from Videos of Complex Political Events

with M. Holman, T. Simko

When Words Divide: MPs as Polarisation Entrepreneurs on the Digital Civic Platform

abgeordnetenwatch.de

with C. Sheldon, C. Arnold

Research Visits and Summer Schools

10/2024-10/2025

Data and Methods Unit, Mannheim Centre for European Research (MZES), University of Mannheim, Germany

06/2024

Video Research Institute, Center for C-SPAN Scholarship & Engagement (CCSE) (Bryce Dietrich), Purdue University, US

02/2024-03/2024

Centre for Artificial Intelligence in Government (CAIG) (Slava Jankin), University of Birmingham, UK

Grants, Certificates, and Awards

2025

Grant: APSA Political Communication Travel Award, 600\$

2025

Certificate: TU Darmstadt Higher Education Teaching Certificates: Professional Competence Level (200 work units)

2024

Grant: German Research Foundation (DFG) Grant “Analysing Legislative Politics with Aligned Text, Audio, and Image Data” with Christian Arnold and Christian Stecker, 285'000€

2024

Grant: APSA Political Communication SPARK Travel Award, 750\$

2023

Award: Athene Award for Excellent Teaching “Promoting data literacy, strengthening critical thinking, taking individual needs into account, integrating modern tools” (TU Darmstadt), 2'000€

Teaching and Supervision

Master Thesis Supervisions: 1

Student Assistant Supervisions: 5

2024

Machine Learning for Social Scientists, PhD graduate school course, MZES (with Ruben Bach)

2024

Introduction to Analysis and Comparison of Political Systems, Undergraduate 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

Research Dissemination

Invited Talks

2025	Data Science Brown Bag Series , Hertie School, Berlin, Germany
2025	Social Data Science Seminar , University of Mannheim, Germany
2024	Mittelbau Colloquium , MZES, University of Mannheim, Germany
2024	Text-as-Data (TADA) Speaker Series , Virtual

Conferences

2025	APSA (Main Conference and Political Communication Pre-Conference)^P , Vancouver, Canada
2025	COMPTEXT^{p,c,d} , Vienna, Austria
2025	PSA , Birmingham, UK
2024	APSAP^P , Philadelphia, US
2024	EPSAP^P , Cologne, Germany
2024	COMPTEXT^P , Amsterdam, Netherlands
2024	IASGP Annual Conference^c , Darmstadt, Germany
2023	IASGP Annual Conference^P , Mannheim, Germany
2023	ECPR Standing Group on Parliaments^{p,d,c} , Vienna, Austria
2023	EPSAP^{p,d} , Glasgow, UK
2023	COMPTEXT^{p,c} , Glasgow, UK
2022	DVPW Group Comparative Research on Parliaments^P , Bremen, Germany
2022	EPSAP^P , Prague, Czech Republic
2022	PolMeth Europe^P , Hamburg, Germany
2021	PolMeth Europe , Virtual

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

Press

- 2025 [Applaus-O-Meter: Zwei Fraktionen applaudieren vor allem sich selbst](#), Frankfurter Allgemeine Sonntagszeitung (FAS) (with Jochen Müller and Christian Stecker)
- 2025 [When do politicians engage in discourse – and when do they avoid it?](#), LSE EUROPP – European Politics and Policy Blog (with Elias Koch)
- 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 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](#), Methods Bites, Blog of the Mannheim Centre for European Research (MZES) Social Science Data Lab
- 2022 [Collection, Management, and Analysis of Twitter Data](#), Methods 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*)

Referee

Computational Communication Research • Computational Linguistics for the Political and Social Sciences at KONVENTS (Workshop), 2024 & 2025 • Nature Scientific Data • Political Analysis • ZPol

Service

Co-Organizer/Contributor of the [Social Science Data Lab \(SSDL\)](#) at MZES (since 03/2021) • 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)

- 03/2021-09/2024 **Student Research Assistant at Social Science Data Lab**, Mannheim Centre for European 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 **Student Research Assistant at Project Data Science and Big Data at Schools Prodabi**, Paderborn University (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

09/2012-07/2015

Traineeship Software Developer, KUMAVISION AG in Tiengen, Germany