

1. EDUCATION

University of Mannheim (Mannheim, Germany)	planned*06/2025
<i>Ph.D. in Natural Language Processing and Computational Political Science</i>	
<ul style="list-style-type: none">- Automatic populist rhetoric analysis- Frame mining and identification- Political Bias in LLMs	
Technical University of Darmstadt (Darmstadt, Germany)	
<i>M.Sc. Computer Science (minor Philosophy), Grade 1.3 with distinction^{1-5(1=very good)}</i>	06/2018
<ul style="list-style-type: none">- NLP and deep learning- Human computer interfaces- Technology assessment and responsibility	
<i>M.A. Political Science, Grade 1.63^{1-5(1=very good)}</i>	07/2019
<ul style="list-style-type: none">- Digital deliberation and participation- Text mining and text-as-data- Qualitative and quantitative analysis	
University of Zurich and ETH Zurich (Zurich, Switzerland)	08/2016 – 02/2017
<i>Exchange and special student</i>	
<ul style="list-style-type: none">- Human Computer Interfaces (ETH)^{very good}- Deep Learning (UZH)^{very good}	
Technical School Center Jena-Göschwitz (Jena, Germany)	07/2010
<i>Practical Qualification in Informatics</i>	

2. WORK EXPERIENCE

University of Mannheim (Mannheim, Germany)	12/2021 – Present
<i>PhD Researcher (Data and Web Science Group, NLP and Computational Political Science)</i>	
Main Project: fine-grained modeling of populist rhetoric, narratives and framing in text	
Research: utilizing NLP for rhetoric and framing analysis	
Teaching: advising thesis students	
<i>Research Associate</i>	
University of Cologne (Cologne, Germany)	08/2024 – Present
<i>Research Associate (Cologne Center of Comparative Politics, Computational Political Science)</i>	
Main Project: rhetoric and framing of groups in multilingual texts	
Research: utilizing NLP for group-based framing analysis	
Teaching: advising thesis students	
Technical University of Darmstadt (Darmstadt, Germany)	07/2018 – 08/2021
<i>Research Associate (UKP lab, Natural Language Processing)</i>	
Main Project: ArguAna, Argument analysis for arguments on the web	
Research: Argument mining, framing analysis and public reactions tracking in crisis times	
Teaching: taught and coordinated NLP fundamental tutorials, coached NLP student software projects, advised multiple thesis students and taught guest lectures/ workshops for NLP methods and writing	
<i>Research Guest</i>	
University of Zurich (Zurich, Switzerland)	10/2024
<i>Computational Social Science</i>	
The Alan Turing Institute (London, UK)	07/2024
<i>Computational Social Science</i>	
Leibniz Institute for the Social Science (Cologne, Germany)	04/2024 – 06/2024
<i>Computational Social Science</i>	
University of Cologne (Cologne, Germany)	05/2023 – 07/2023
<i>Cologne Center of Comparative Politics, Computational Political Science</i>	
<i>Research Assistant</i>	
ETH Zurich (Zurich, Switzerland)	08/2016 – 03/2017
<i>Research Assistant, Computational Social Science lab</i>	
Main Project: GrippeNet, Analyzing influenza symptoms for decision-making	
Research: analyzed and visualized statistical reports for GrippeNet web page	

Fraunhofer-Institute for Computer Graphics Research (<i>Darmstadt, Germany</i>)	10/2013 – 02/2015
<i>Research Assistant, Visual Analytics</i>	
Main Project: integrating visual analytics in policy decision-making	
Research: reviewed work for automatic policy making and motivated the research gap as well as the chances and pitfalls for combining visual analytics and policy making	
Technical University of Darmstadt (<i>Darmstadt, Germany</i>)	08/2012 – 06/2017
<i>Research Assistant and Academic Coach</i>	
Teaching: taught seminars, such as “Engineers in the Society”, and computer science fundamentals	
Research: extended the serious argumentation learning game <i>Argotario</i>	
Coaching: designed workshops on writing skills, such as software project documentation and academic writing and, coached team and presentation training workshops (>15)	
<i>Academic Writing Coach</i>	
University of Hagen (<i>Hagen, Germany</i>)	2021 – 2023
<i>Writing Coach at the Computer Science department</i>	
Technical University of Darmstadt (<i>Darmstadt, Germany</i>)	2014 – 2017
<i>Writing Coach at the Writing Center (SchreibCenter)</i>	
<i>Further academic training</i>	
Oxford Spring School on Casual Inferences: Design Based Approaches (<i>by DPIR/ University of Oxford</i>)	2024
Advanced Language Processing Winter School (<i>by Naver Labs Europe, Cohere & University of Grenoble</i>)	2024
Oxford Summer School on Representation and Generative AI (<i>OxML</i>)	2024
Oxford Summer School on Machine Learning Fundamentals (<i>OxML</i>)	2024
Oxford Berlin Autumn School on Responsible and Open Research (<i>OxBER at University of Oxford</i>)	2023
Advanced Language Processing Winter School (<i>by Naver Labs Europe & University of Grenoble</i>)	2021
Mediterranean Machine Learning Summer School (<i>by Google DeepMind</i>)	2020

3. AWARDS/ SCHOLARSHIPS

Most Innovative Project Award (<i>Cohere in Expedition Aya, ~2000€</i>)	2024
KONVENS Workshop Support (<i>GSCL, 1500€</i>)	2024
API Research Grant (<i>Cohere in Expedition Aya, ~1000€</i>)	2024
Open Science Grant (<i>University of Mannheim, ~6000€</i>)	2024
PhD Thesis scholarship (<i>University of Mannheim, ~8000€</i>)	2024
Junior Researcher Program (<i>GESIS, Leibniz Institute for the Social Science, ~2000€</i>)	2023
Graduated with Distinction (<i>Technical University of Darmstadt</i>)	2018
Best Student in “Social Learning and Knowledge Sharing Technologies” (<i>Technical University of Darmstadt</i>)	2016
Swiss-European Mobility Scholarship (<i>University of Zurich, ~2000 CHF</i>)	2016
Event Scholarship (<i>Boston Consulting Group, ~100€</i>)	2015
Master Online Scholarship (<i>e-fellows.net</i>)	2015

4. TECHNICAL SKILLS

- **Annotation projects with crowdsourcing & expert studies** on data from multiple domains (with crawled data from Twitter/X, Reddit, parliamentary debates, comments, press releases, etc.)
- **Machine learning experience** with domain-adapted (Large) Language Models and experience with PyTorch, HuggingFace, LangChain, SpaCy, etc.
- **Prototyping of NLP applications** experience with Streamlit, Gradio and Flask for front-end development
- **Software engineering with Python (> 6 years), R, C/C++ & Java**
- Designed images and **tutorials** (e.g., *Argotario*) with Midjourney, Adobe Photoshop, Premiere, etc.

5. PUBLICATIONS

Articles

- **Consent in Crisis: The Rapid Decline of the AI Data Commons.** In: NeurIPS 2024 with Data Provenance Initiative
- **Our kind of people? Detecting populist references in political debates.** In: The 17th Conference of the European Chapter of the Association of Computational Linguistics (EACL 2023) with *Ines Rehbein and Simone Ponzetto*
- **Multilabel Legal Element Classification on German Parliamentary Debates in a Low-Resource Setting** (KONVENS-CPSS 2023) with *Martin Hock*
- **FrameAST: Second-Level Agenda Setting in Parliamentary Debates.** In: ParlaCLARIN III: Workshop on creating, enriching and using parliamentary corpora (LREC-ParlaCLARIN 2022) with *Ines Rehbein and Simone Ponzetto*
- **BLOOM: Open-Access Multilingual Language Model.** In: BigScience Project (HuggingFace 2022) with *many others*

- **Von der (Nicht-) Intelligenz der Algorithmen“** (SKILL 2018) Gesellschaft für Informatik (Berlin).
- **Argotario: Computational argumentation meets serious games.** In: Empirical Methods in Natural Language Processing: System Demonstrations (EMNLP 2017) with *Ivan Habernal, Raffael Hannemann, Christian Pollak, Patrick Pauli & Iryna Gurevych*
- **Comparison of e-Participation Roadmap in Industrial and Developing Countries based on Germany and Kenya** (ICEGOV 2014) with *Dirk Burkhardt, Kawa Nazemi, Jörn Kohlhammer and Arjan Kuijper*

Working paper

- **Bridging the Data Provenance Gap Across Text, Speech, and Video** with *Data Provenance Initiative 2024*
- **Evaluating Multilingual Language Understanding with Regional Knowledge** with *Romanou et al. 2024*
- **AI in-depth Interviewing** with *Alexander Wuttke, Quirin Würschinger, Frauke Kreuter, Matthias Aßenmacher and Max Melchior Lang (2024, <https://osf.io/c8ymh>)*
- **Resource-Efficient Text Classification Using Pre-Trained Language Models and Parameter-Efficient Fine-Tuning for Topic Modelling** with *Moritz Osnabrügge, Sascha Mayer, and Simone Ponzetto accepted for EPSA 2024 and COMPTXT 2024*
- **Should we stop fine-tuning BERT? The benefits and limitations of in-context learning on analyzing group mentions and appeals in German parliamentary debates** with *Simone Ponzetto and Ines Rehbein accepted for EPSA 2024 and COMPTXT 2024*
- **Towards an account of dynamics of framing** with *Zlata Kiteva, Annette Hautli-Janisz, Steve Oswald, Henning Wachsmuth, Wassilik Siskou, Manfred Stede and Chris Reed (accepted for Framing in Communication, Dagstuhl (2022) and DGfS2024-Framing).*
- **How parties frame the Covid-19 pandemic: an analysis of parties' press releases** with *Sarah Wagner, Ines Rehbein, Simone Ponzetto and Marc Debus (accepted for MPSA 2023)*

Non-Archival/ Conferences or Workshop Presentations

- **Utilizing a domain-enriched opinion role labeling framework to investigate populist rhetoric in political debates.** In: *6th Monash-Warwick-Zurich Text-As-Data Workshop (2023) with Ines Rehbein, Ines Reinig and Simone Ponzetto*
- **How German political parties frame the COVID-19 pandemic: an analysis of press releases.** In: *Midwest Political Science Association Conference (MPSA 2023) with Sarah Wagner, Marc Debus, Ines Rehbein and Simone Ponzetto*
- **Towards measuring populism from text.** In: *The 12th Annual Conference on New Directions in Analyzing Text as Data (TADA 2022) with Ines Rehbein und Simone Ponzetto*
- **Towards an account of dynamics of framing. In: Framing in Communication,** Dagstuhl (2022) & *DGfS2024-Framing “Towards Linguistically Motivated Computational Models of Framing” (2024) with Zlata Kiteva, Annette Hautli-Janisz, Steve Oswald, Henning Wachsmuth, Wassilik Siskou, Manfred Stede and Chris Reed*
- **Rhetorical Patterns of Political Justification:** In: *Digital Democracy Workshop Zurich (2021) and The 11th Annual Conference on New Directions in Analyzing Text as Data (TADA 2021) with Hauke Licht*
- **Public Reactions Tracking Framework** (2020). In: *Norms of Public Argument: Concepts and Methods (Workshop)*

Academic Writing

- **Responsibility for Scientific Writing in the Age of AI.** In: *Hochschulforum Digitalisierung with Sarah Brommer Jochen Berendes Dr. Isabella Buck Ella Grieshammer Christina Hollosi-Boiger Dagmar Knorr Anika Limburg Margret Mundorf Erika Unterpertinger (2023, German)*
- **Standards and Open-Source Large Language Models for Academic Writing.** In: *LearningAID (2023, German)*
- **Writing Support for the Bachelor's thesis.** In: *Darmstädter Vielfalt in der Linguistik with Sandra Drumm, Lisa Hertweck, Verena Hunsrucker (2018, German)*
- **Anticipation of Consulting Situations in the Writing Center.** In: *Journal for Schreibwissenschaft (2016, German)*

6. ADDITIONAL ACADEMIC TRAINING

Laboratory for Higher Education (TU Darmstadt, >670h)

Presentation and Team Coach, <i>University Certificate (> 270h)</i>	2017
Higher Academic Teaching, <i>University Certificate (> 500h)</i>	2021

Stress Management (TU Darmstadt, >74h)

Relaxing Coach, <i>University Certificate (18h)</i>	2017
Autogenous Training Coach, <i>University Certificate (32h)</i>	2018
Stress Management Coach, <i>University Certificate (24h)</i>	2020

Academic Writing Center (TU Darmstadt, > 380h)

Academic Writing Coach, <i>University Certificate (> 300h)</i>	2014
Writing Center Management, <i>University Certificate (20h)</i>	2016
Creative and Journalistic Writing, <i>University Certificate (20h)</i>	2018
Academic Writing, <i>University Certificate (20h)</i>	2019
Writing in School, <i>University Certificate (20h)</i>	2021

<i>Further higher education training for teaching</i>	
Diversity-sensitive Teaching, Workshop, University of Cologne	2024
Professional Leadership, University of Cologne	2024
International Classroom, Workshop, University of Mannheim	2024
Inclusive Digital Teaching and Learning, Workshop, University of Hohenheim	2024
Healthy and Motivational Teaching, Workshop, Karlsruher Institute for Technology	2024
Hybrid Teaching, Workshop, University of Mannheim	2023
Supporting Students in Mindful Learning, University of Heidelberg	2023
Gender Equality and Diversity in Teaching, University of Mannheim	2021
Teaching Materials, Workshop, Technical University of Darmstadt	2021
Individual Teaching Styles, Workshop, Technical University of Darmstadt	2021
Teaching Portfolios, Workshop, Technical University of Darmstadt	2021
Design Thinking in Teaching, Workshop, Technical University of Darmstadt	2021
Vocal Training, Workshop, Technical University of Darmstadt	2020
Rhetoric Training, Workshop, Technical University of Darmstadt & University of Zurich	2016, 2020
Assessment/ Grading in University, Workshop, Technical University of Darmstadt	2020
Oral Exams, Workshop, Technical University of Darmstadt	2020
Science Communication, Workshop, Technical University of Darmstadt	2019
Leadership Skills, Workshop, Technical University of Darmstadt	2018
Systematic Coaching, Workshop, Technical University of Darmstadt	2018
Awareness in Communication, Workshop, Technical University of Darmstadt	2018
Design Thinking, Workshop, Technical University of Darmstadt	2017

7. ACADEMIC SERVICE/ ENGAGEMENTS/ OPEN SOURCE CONTRIBUTIONS

Group Captain in the Expedition Aya leading a group of 8 researchers (Cohere4AI)	2024
Member of the Data Provenance Initiative for data quality	2023 – Present
Co-organizing “Computer Linguistics for the Social and Political Sciences” (Workshop)	2022, 2023, 2024
Co-organizing an online speaker series on text-as-data (tada.cool, Slack with >700 members)	2022 – Present
Mentor for First-Gen students, ArbeiterKind (Germany)	2016 – Present
Academic writing coach (TU Darmstadt, UHagen, and UManheim)	2014 – Present
Member of the metadata working group in the BigScience (HuggingFace, BLOOM) project	2021 – 2022
Member of the teaching committee, Technical University Darmstadt (Darmstadt, Germany)	2021
Member of the task force for a new master’s degree program in AI (Darmstadt, Germany)	2020
German Informatics Society, University Group (Darmstadt, Germany)	2014 – Present
Teaching assistant for informatics for kids, Elementary School (Jena, Germany)	2009 – 2010

Program Committee Member (Reviewer):

NeurIPs (Ethical Reviewer)	2024
The 3 rd Workshop in Positive Impact (PC, EMNLP)	2024
COLING (Demo Session Reviewer)	2024
Political Analysis	2024
ACL Rolling Review (Computational Social Science, January, February, June, and October)	2024
LREC-COLING (PC, Digital Humanities and Argument Mining)	2023, 2024
EMNLP (PC, Computational Social Science)	2019, 2021, 2022, 2023
ACL (PC, Computational Social Science)	2020, 2023
Workshop on Argument Mining (PC, EMNLP)	2021, 2023, 2024
The 2 nd Workshop on Multilingual Representation Learning (PC, EMNLP)	2021
The 1 st Workshop on Insights from Negative Results in NLP (PC, EMNLP)	2021
Journal of Writing Studies	2016, 2022, 2023

8. TEACHING EXPERIENCES

*Teaching (*class taught for a whole semester)*

Open-Source Models, Teaching Module, AI Campus, Stifterverband für die Deutsche Wissenschaft	2023
Foundations of Language Technology, Practical Class, Technical University of Darmstadt	2020*, 2021*
Engineers in the Society, Seminar, SchreibCenter, Technical University of Darmstadt	2016*
Presentation Training for Computer Science Students, Practical Class (>40h), Higher Education Lab, Technical University of Darmstadt	2016*, 2018
Foundations of Computer Science 3, Practical Class (Semester), Technical University of Darmstadt	2012*, 2013*, 2015*

Conference Tutorials

Leveraging Parameter-Efficient, Small-Scale Models with Adapters for Social Science Research using Python with Moritz Osnabrügge. In: <i>COMPTEXT, Vrije Universiteit Amsterdam</i>	2024
From NLP to CSS: A Practical Tutorial on using Transformers in your Research with Moritz Laurer and Elliott Ash. In: <i>IC2S2, ETH Zurich</i>	2021
<i>Invited Talks/ Workshops/ Guest Lectures</i>	
Populism Analysis through the Lens of Group-Based Aspects with (Large) Language Models , Talk <i>CIVICA Data Science Seminar Series, EUI, Bocconi, LSE, SciencesPo and HUBelin</i>	2024
Transformer-based Language Models , Talk, <i>Methods Bites, MZES, University of Mannheim</i>	2023
Machine Learning Lifecycle and the Democratization of Machine Learning , Guest Lecture, <i>Technical University of Munich</i>	2022
Populism Detection and other ways of working at the intersection of NLP and Political Science , Talk, <i>University of Zurich</i>	2022
Natural Language Processing Methods and Political Science Applications , <i>University of Tübingen</i>	2022
Challenges in Automatic Populism Detection , <i>Bocconi University</i>	2022
Machine Learning Lifecycle and Standards for Transparency and Accountability , Talk, <i>Technical University of Munich</i> .	2022
Word and Sentence Embeddings , Guest Lecture, <i>Philipps University of Marburg</i>	2021
Sesame Street, NLP and Political Science , Guest Lecture. <i>Technical University of Darmstadt</i>	2021
<i>Others</i>	
KI, Academic Writing and Responsibility , Workshop, <i>TH Cologne & RWTHAachen</i>	SS 2024 & WS 2024
KI, Academic Writing and Responsibility , with Angela Schröder, Workshop, <i>FernUni-Hagen</i>	2023
AI-Assisted Programming (for Researchers) , Workshop, <i>Cologne Center of Comparative Politics</i>	2023
Stress Management for Students , Workshop, <i>Writing Night. FernUniversität Hagen.</i>	2022
Scientific Writing for PhD students , Workshop, <i>University of Mannheim</i>	2022
Stress Awareness for Students , Guest Workshop, <i>ArbeiterKind Hessen, Ehrenamt</i>	2021, 2022, 2023
Stressless Academic Writing , Guest Lecture, <i>SchreibCenter Technical University of Darmstadt</i>	2021, 2022
Stress management , Guest Lecture, <i>SchreibCenter Technical University Darmstadt</i>	2020
Academic Writing , Guest Lecture, <i>Bachelorpraktikum. Technical University of Darmstadt</i>	2019, 2020
Presentation Training for Computer Science Students <i>Higher Education Laboratory</i> <i>Technical University of Darmstadt</i>	2018
Scientific Writing for Computer Science Students , Workshop, <i>SchreibCenter,</i> <i>Technical University of Darmstadt</i>	2016

Supervised Students

- 5 tutors and 6 student helpers
- 10 software project students
- 7 thesis students (Bachelor and Master)
- > 500 students in various courses

9. LANGUAGES

German (native), English (fluent), Spanish (basic)

10. REFERENCES

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