

1. EDUCATION

University of Mannheim (Mannheim, Germany)

Ph.D. in Natural Language Processing and Computational Political Science planned* 10/2024

- Automatic rhetoric analysis
- Frame mining and identification
- Language representation of populism in political debates

Technical University of Darmstadt (Darmstadt, Germany)

M.Sc. Computer Science (minor Philosophy), Grade 1.3 with distinction 06/2018

- NLP and deep learning
- Human computer interfaces
- Technology assessment and responsibility

M.A. Political Science, Grade 1.63 07/2019

- 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

Exchange and special student

- Human Computer Interfaces (ETH)
- Deep Learning (UZH)

Technical School Center Jena-Göschwitz (Jena, Germany)

07/2010

Practical Qualification in Informatics

2. WORK EXPERIENCE

Research Associate

University of Mannheim (Mannheim, Germany)

12/2021 – Present

Research Associate, NLP and Computational Political Science (Prof. Dr. Simone Paolo Ponzetto)

Main Project: fine-grained modeling of populist rhetoric and framing in text

Research: utilizing NLP for rhetoric and framing analysis

Teaching: advising thesis students

Technical University of Darmstadt (Darmstadt, Germany)

07/2018 – 08/2021

Research Associate, NLP (Prof. Dr. Iryna Gurevych)

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

Visiting Researcher

Leibniz Institute for the Social Science (GESIS, Germany)

Computational Political Science (Prof. Dr. Gabriella Lapesa & Prof. Dr. Sebastian Stier)

planned* 04/2024 – 05/2024

University of Cologne (Cologne, Germany)

Comparative Politics, Computational Political Science (Prof. Dr. Sven-Oliver Proksch)

05/2023 – 07/2023

Research Assistant

ETH Zurich (Zurich, Switzerland)

08/2016 – 03/2017

Research Assistant, Computational Social Science (Prof. Dr. Dirk Helbing)

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 (Darmstadt, Germany)

10/2013 – 02/2015

Research Assistant, Visual Analytics (Prof. Dr. Jürgen Kohlhammer)

Main Project: integrating visual analytics in policy decision-making (with Tobias Ruppert)

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 (Darmstadt, Germany)

08/2012 – 06/2017

Research Assistant and Academic Coach

Teaching: taught seminars, such as “Engineers in the Society”, and computer science fundamentals

Research: extended the serious argumentation learning game *Argotario*

Coaching: designed workshops on writing skills, such as software project documentation and academic writing and, coached team and presentation training workshops (>15)

University of Hagen (Hagen, Germany)

2021 – 2023

Writing Coach at the Computer Science department

Technical University of Darmstadt (Darmstadt, Germany)

2014 – 2017

Writing Coach at the Writing Center (SchreibCenter)

Further academic training:

Oxford Summer School on Representation and Generative AI (by University of Oxford)	accepted*2024
Oxford Spring School on Casual Inferences: Design Based Approaches (by University of Oxford)	accepted*2024
Advanced Language Processing Winter School (by Naver Labs Europe, Cohere & University of Grenoble)	accepted*2024
Oxford/Berlin Autumn School on Responsible and Open Research (by University of Oxford)	2023
Advanced Language Processing Winter School (by Naver Labs Europe & University of Grenoble)	2021
Mediterranean Machine Learning Summer School (by Google DeepMind)	2020

3. AWARDS/ SCHOLARSHIPS

PhD Thesis scholarship (University of Mannheim)	2024
Junior Researcher Program (GESIS, Leibniz Institute for the Social Science)	2023
Graduated with Distinction (Technical University of Darmstadt)	2018
Best Student in “Social Learning and Knowledge Sharing Technologies” (Technical University of Darmstadt)	2016
Swiss-European Mobility Scholarship (University of Zurich)	2016
Event Scholarship (Boston Consulting Group)	2015
Master Online Scholarship (e-fellows.net)	2015

4. PUBLICATIONS (SELECTED)**Articles**

- **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*
- **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*
- **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*

Working paper

- **Resource-Efficient Text Classification Using Pre-Trained Language Models and Parameter-Efficient Fine-Tuning** 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*

Non-Archival

- **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*

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)

5. TECHNICAL SKILLS

- planned, coordinated and executed multiple annotation projects for more than 20k datapoints through data set creation with crowdsourcing (AMT), expert studies (in-house and students)
- crawling web data (*Twitter/X, Reddit, parliamentary debates, comments, press releases, etc.*)
- built, trained and tested machine learning models with PyTorch, HuggingFace, SpaCy etc.
- software engineering with Python (advanced), R and Java
- conceptualized and implemented machine learning prototypes with Streamlit and Gradio
- designed images and tutorials (e.g., *Argotario*) with Adobe Photoshop, Premiere, etc.
- recorded a podcast and academic lectures (e.g., *Writing*) with Reaper and OBS

6. ADDITIONAL ACADEMIC TRAINING

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

Presentation and Team Coach, *University Certificate (> 270h)* 2017

Higher Academic Teaching, *University Certificate (> 400h)* 2021

Stress Management (*TU Darmstadt, >74h*)

Relaxing Coach, *University Certificate (18h)* 2017

Autogenous Training Coach, *University Certificate (32h)* 2018

Stress Management Coach, *University Certificate (24h)* 2020

Academic Writing Center (*TU Darmstadt, > 380h*)

Academic Writing Coach, *University Certificate (> 300h)* 2014

Writing Center Management, *University Certificate (20h)* 2016

Creative and Journalistic Writing, *University Certificate (20h)* 2018

Academic Writing, *University Certificate (20h)* 2019

Writing in School, *University Certificate (20h)* 2021

Further higher education training for teaching: Hybrid Teaching (2023), Supporting Students in Mindful Learning (2023), Gender Equality and Diversity in Teaching (2021), Teaching Materials (2021), Individual Teaching Styles (2021), Teaching Portfolios (2021), Design Thinking in Teaching (2021), Vocal Training (2020), Rhetoric Training (2020, 2016), Assessment/Grading in University (2020), Oral Exams (2020), Science Communication (2019), Leadership Skills (2018), Systematic Coaching (2018), Awareness in Communication (2018), Design Thinking (2017), etc.

7. ACADEMIC SERVICE/ ENGAGEMENTS/ OPEN SOURCE CONTRIBUTIONS

- member of the Data Provenance Initiative for data quality (<https://dataprovence.org>) 2023 – Present
- co-organizing the workshop “*Computer Linguistics for the Social and Political Sciences*” 2022 – Present
- 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 – 2015
- teaching assistant for informatics for kids, *Elementary School (Jena, Germany)* 2009 – 2010

Program Committee Member: ACL ARR 2024, LREC-COLING (*PC, Digital Humanities and Argument Mining*), EMNLP (*PC, Computational Social Science, 2023*), EMNLP (*PC, Computational Social Science, 2022*), EMNLP (*PC, 2021*) and EMNLP (*PC, 2019*), ACL (*PC, Computational Social Science, 2023*) and ACL (*PC, 2020*), The 10th Workshop on Argument Mining (*PC, EMNLP 2023*), 8th Workshop on Argument Mining (*PC, EMNLP 2021*), The 2nd Workshop on Multilingual Representation Learning (*PC, EMNLP 2021*), The 1st Workshop on Insights from Negative Results in NLP (*PC, EMNLP 2021*) and Journal of Writing Studies (*2023/2024, 2021/2022, and 2016*)

8. TEACHING EXPERIENCES (SELECTED)

Courses/ Practical Classes/ Seminars

- “Open-Source Models” (2023), Teaching Module @ *AI Campus, Stifterverband für die Deutsche Wissenschaft*
- “Foundations of Language Technology” (2019/2020 and 2018/2019), practical class for computer scientists and linguists, *UKP, TU Darmstadt* with Christian Meyer and Gözde Gül Şahin.
- “Presentation Training for Computer Science Students” (2018 and 2016), *Higher Education Lab, TU Darmstadt*.
- “Scientific Writing for Computer Science Students” (2016), *SchreibCenter, TU Darmstadt*.
- “Engineers in the Society” (2016), Seminar, *SchreibCenter, TU Darmstadt*.
- “Foundations of Computer Science 3” (2015/2016, 2013/2014 and 2012/2013), Tutor, practical class, *TU Darmstadt*

Workshops/ Guest Lectures

- “Leveraging Parameter-Efficient Models with Adapters for Social Science Research” @ COMPTTEXT (*planned**2024)
- “Analysis of Populism in texts in the Age of LLMs” (*planned**2024) @ CIVICA Data Science Seminar
- “Transformer-based Language Models” (2023), Workshop @ *Methods Bites, MZES, University of Mannheim (Germany)*
- “NLP methods and Political Science applications” (2022), Workshop in “Artificial Intelligence and Machine Learning Research and Democracy” @ *University of Tübingen (Germany)*
- “Machine Learning Lifecycle and Standards for Transparency and Accountability” (SS & WS 2022), Guest Lecture in “The EU’s AI Act Proposal: From framework to practical application” @ *Technical University of Munich (Germany)*
- “Challenges in Automatic Populism Detection” (2022), Workshop @ *Bocconi University (Italy)*
- “Sesame Street, NLP and Political Science” (2021), Guest Lecture @ *TU Darmstadt (Germany)*
- “From NLP to CSS: A Practical Guide for using Transformers in your Research” (2021) with *Elliott Ash and Moritz Lauer*, full-day Tutorial @ *IC2S2 ETH Zurich*

Supervised Students

- 5 tutors and 5 student helpers
- 10 software project students
- 7 thesis students (*Bachelor and Master*)
- > 400 students in various courses

9. LANGUAGES

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

10. REFERENCES

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