

# Maximilian Martin Maurer

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## Education

- 06/2024 – now **Ph.D. Computer Science**, Heinrich-Heine University Duesseldorf.  
Thesis title: *Sociodemographic and linguistic factors in label disagreement and their effects on model behavior.*
- 2023 **M.Sc. Computational Linguistics**, University of Stuttgart, Germany.  
Thesis title: *Analysis of political positioning from politician's Tweets.*
- 2021 **B.Sc. Natural Language Processing**, University of Stuttgart.  
Thesis title: *Explicit Content Detection in Songs.*

## Research Experience

- 2024 – now **Research Assistant**. GESIS Leibniz-Institute for the Social Sciences. Cologne, Germany.
- 01/2023 – 11/2023 **Student Research Assistant**. SemChangeMWE Project, IMS, University of Stuttgart, Germany.

## Research Publications

### Conference Proceedings

- 1 E. Dönmez\*, **M. Maurer\***, G. Lapesa, and A. Falenska, “AI argues differently: Distinct argumentative and linguistic patterns of LLMs in persuasive contexts,” in *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing*, C. Christodoulopoulos, T. Chakraborty, C. Rose, and V. Peng, Eds., Suzhou, China: Association for Computational Linguistics, Nov. 2025, pp. 34 583–34 614, ISBN: 979-8-89176-332-6. ↗ DOI: 10.18653/v1/2025.emnlp-main.1755.
- 2 J. Romberg, **M. Maurer**, H. Wachsmuth, and G. Lapesa, “Towards a perspectivist turn in argument quality assessment,” in *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (Volume 1: Long Papers)*, Albuquerque, New Mexico, Apr. 2025, pp. 7458–7485, ISBN: 979-8-89176-189-6. ↗ DOI: 10.18653/v1/2025.naacl-long.382.
- 3 **M. Maurer**, T. Ceron, S. Padó, and G. Lapesa, “Toeing the party line: Election manifestos as a key to understand political discourse on Twitter,” in *Findings of the Association for Computational Linguistics: EMNLP 2024*, Miami, Florida, USA, Nov. 2024, pp. 6115–6130. ↗ DOI: 10.18653/v1/2024.findings-emnlp.354.
- 4 **M. Maurer**, J. Romberg, M. Reuver, N. Weldekiros, and G. Lapesa, “GESIS-DSM at PerspectiveArg2024: A matter of style? socio-cultural differences in argumentation,” in *Proceedings of the 11th Workshop on Argument Mining (ArgMining 2024)*, Bangkok, Thailand, Aug. 2024, pp. 169–181. ↗ DOI: 10.18653/v1/2024.argmining-1.18.
- 5 **M. Maurer**, C. Jenkins, F. Miletic, and S. Schulte im Walde, “Classifying noun compounds for present-day compositionality: Contributions of diachronic frequency and productivity patterns,” in *Proceedings of the 19th Conference on Natural Language Processing (KONVENS 2023)*, Ingolstadt, Germany, Sep. 2023, pp. 40–51. ↗ URL: <https://aclanthology.org/2023.konvens-main.4/>.

## Guides

- 1 M. Maurer, *What is Prompting?* (GESIS Guides to Digital Behavioral Data). Cologne: GESIS – Leibniz Institute for the Social Sciences, 2025, vol. 25. DOI: 10.60762/ggdbd25025.1.0.

## Open Source Projects

- ELFEN, a Python package to efficiently extract linguistic features for text/NLP datasets.  
<https://github.com/mmmaurer/elfen>.

## Skills

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|---------------------|--|
| Languages           | ■ German (native), English (fluent), Spanish (beginner)  |
| Coding              | ■ Python, R, Bash  |
| Tools and Libraries | ■ PyTorch, Polars, scikit-learn, huggingface, transformers, adapters, Pandas, spaCy, Matplotlib, Seaborn, scipy, numpy, brms, lme4 |
| Typesetting         | ■ L <sup>A</sup> T <sub>E</sub> X, MS Office   |

## Miscellaneous Experience

### Teaching

- 06/2025 ■ **Adapters: Lightweight Machine Learning for Social Science Research**, Three-day online course for social scientists.

### PC Member/Reviewer

- 2025 ■ CoNLL, ArgMining, COLING (Tracks: Sentiment Analysis, Opinion and Argument Mining; Ethics, Bias and Fairness), LREC.
- 2024 ■ LRED-COLING (Track: Sentiment Analysis, Opinion and Argument Mining).

## References

Available on Request