

Wessel Poelman

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Education

- 2023– **PhD in Computer Science, KU Leuven**
Supervisor: Miryam de Lhoneux, subjects: Multilingual NLP, Linguistics.
- 2021–2022 **MSc in Information Science, University of Groningen**
Supervisor: Johan Bos, thesis results published at COLING 2022. Grade: *cum laude*.
- 2016–2021 **BSc in Information Science, University of Groningen**
BA in Communication Sciences, University of Groningen

Experience

- 2023– **Software Engineer, Technical University of Munich**
Assisting in lab and research automation at the Walter Schottky Institute. Writing drivers and parameter sweeps for measurement instrumentation. (volunteer position)
- 2023–2023 **Researcher, Technical University of Munich**
PhD candidate in Informatics, stopped to join KU Leuven.
- 2021–2023 **Junior Machine Learning Engineer, Web-IQ**
Developed NLP solutions for OSINT applications: a transparent topic-based system for calculating risk scores for texts; an entity resolution service assisting analysts with entity disambiguation; text classifiers and their labeling infrastructure; CI/CD workflows.
- 2019–2021 **Software Engineer, Beeproker**
Worked on projects ranging from apps for start-ups to planning and billing software for construction companies. Regular contact with customers regarding technical directions.
- 2018–2020 **Student Assistant, University of Groningen**
Worked as a teaching assistant, research assistant and translator for various courses and professors. Also served as a student representative in assistant professor hiring committee in 2018 & 2019.

Teaching

- 2024 **Data Structures and Algorithms, BSc, KUL**
- 2023 **Natural Language Processing – Methods and Applications, MSc, TUM**
- 2019 **Introduction to Programming I, BSc, RUG**

Academic

- 2024– **Member, Universality, diversity and idiosyncrasy in language technology (UniDive), Cost Action, WG3 and WG4.**
- Schools LxMLS 2024, ESSLLI 2023
- Reviewer NAACL 2024 (ER), JURIX 2023, SemEval 2022

Events

- May 2024 Poster at *Leuven.AI: Science of AI* workshop, KU Leuven
Jan 2024 Poster at *Human Perspective on Cross-Lingual AI Models*, VU Amsterdam
Sep 2023 Presentation at *Computational Linguistics in the Netherlands*, University of Antwerp

In progress

* indicates equal contribution.

- [1] Esther Ploeger*, **Wessel Poelman***, Miryam de Lhoneux, and Johannes Bjerva. *What Is 'Typological Diversity' in NLP?* 2024. arXiv: 2402.04222. Under review.
- [2] Esther Ploeger, **Wessel Poelman**, Andreas Holck Høeg-Petersen, Anders Schlichtkrull, Miryam de Lhoneux, and Johannes Bjerva. *A Principled Framework for Evaluating on Typologically Diverse Languages* 2024. Under review.
- [3] Phillip Schneider, **Wessel Poelman**, Michael Rovatsos, and Florian Matthes. *Engineering Conversational Search Systems: A Review of Applications, Architectures, and Functional Components*. Proceedings of the 6th Workshop on NLP for Conversational AI (NLP4ConvAI). 2024. To appear.

Selected

Peer reviewed.

- [4] Pieter Fizez, Walter Daelemans, Tim Van de Cruys, Yury Kashnitsky, Savvas Chamezopoulos, Hadi Mohammadi, Anastasia Giachanou, Ayoub Bagheri, **Wessel Poelman**, Juraj Vladika, Esther Ploeger, Johannes Bjerva, Florian Matthes, and Hans van Halteren. *The CLIN33 Shared Task on the Detection of Text Generated by Large Language Models*. Computational Linguistics in the Netherlands Journal (CLIN). 2024.
- [5] Mahdi Dhaini, **Wessel Poelman**, and Ege Erdogan. *Detecting ChatGPT: A Survey of the State of Detecting ChatGPT-Generated Text*. Proceedings of the 8th Student Research Workshop associated with the International Conference Recent Advances in Natural Language Processing (RANLP). 2023.
- [6] **Wessel Poelman**, Rik van Noord, and Johan Bos. *Transparent Semantic Parsing with Universal Dependencies Using Graph Transformations*. Proceedings of the 29th International Conference on Computational Linguistics (COLING). 2022.