Wessel Poelman

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Education

2023 –   **PhD in Computer Science**, *KU Leuven*
Supervisor: Miryam de Lhoneux, subject: Multilingual NLP.

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**, *Beeproger*
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   **Wetenschappelijke Vorming**, *BSc*, KUL
2024   **Natural Language Processing**, *MSc*, KUL
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 (*Instituto Superior Técnico*), ESSLLI 2023 (*University of Ljubljana*)

Reviewer   EMNLP 2024 (ER), NAACL 2024 (ER), JURIX 2023, SemEval 2022

Events

Aug 2024   Poster at *Computational Linguistics in the Netherlands*, Leiden University

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   Talk at *Computational Linguistics in the Netherlands*, University of Antwerp

Publications

Peer-reviewed, * indicates equal contribution.

8. A Principled Framework for Evaluating on Typologically Diverse Languages (2024)
   Esther Ploeger, **Wessel Poelman**, Andreas Holck Høeg-Petersen, Anders Schlichtkrull, Miryam de Lhoneux & Johannes Bjerva.
   Preprint, under review.

7. What is "Typological Diversity" in NLP? (2024)
   Esther Ploeger[*], **Wessel Poelman**[*], Miryam de Lhoneux & Johannes Bjerva.
   To appear at *Empirical Methods in Natural Language Processing (EMNLP)*

6. A Call for Consistency in Reporting Typological Diversity (2024)
   Wessel Poelman[*], Esther Ploeger[*], Miryam de Lhoneux & Johannes Bjerva.
   Workshop on Computational Linguistic Typology and Multilingual NLP (SIGTYP) @ EACL

5. Engineering Conversational Search Systems: A Review of Applications, Architectures, and Functional Components (2024)
   Phillip Schneider, **Wessel Poelman**, Michael Rovatsos & Florian Matthes.
   Workshop on NLP for Conversational AI (NLP4ConvAI 2024) @ ACL - **Outstanding Paper Award**

4. The CLIN33 Shared Task on the Detection of Text Generated by Large Language Models (2024)
   Pieter Fivez, Walter Daelemans, Tim Van Cruys, Yury Kashnitsky, Savvas Chamezopoulos, Hadi Mohammadi, Anastasia Giachanou, Ayoub Bagheri, **Wessel Poelman**, Juraj Vladika, Esther Ploeger, Johannes Bjerva, Florian Matthes & Hans Halteren.
   Computational Linguistics in the Netherlands Journal

3. Detecting ChatGPT: A Survey of the State of Detecting ChatGPT-Generated Text (2023)
   Mahdi Dhaini, **Wessel Poelman** & Ege Erdogan.
   Student Research Workshop @ RANLP

2. Transparent Semantic Parsing with Universal Dependencies Using Graph Transformations (2022)
   Wessel Poelman, Rik van Noord & Johan Bos.
   International Conference on Computational Linguistics (COLING)

1. RUG-1-Pegasussers at SemEval-2022 Task 3: Data Generation Methods to Improve Recognizing Appropriate Taxonomic Word Relations (2022)
   Frank van den Berg[*], Gijs Danoe[*], Esther Ploeger[*], **Wessel Poelman**[*], Lukas Edman & Tommaso Caselli.
   International Workshop on Semantic Evaluation (SemEval-2022) @ NAACL