

Wessel Poelman

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Education

- 2023 – pres **KU Leuven** – PhD in Computer Science
Researching neuro-symbolic methods for multilingual natural language processing.
Supervisor: Dr. Miryam de Lhoneux.
- 2023 – 2023 **Technical University of Munich** – PhD in Informatics – not completed
- 2021 – 2022 **University of Groningen** – MSc in Information Science (*cum laude*)
Thesis results about language-neutral semantic parsing published at COLING-2022.
Supervisors: Prof. Johan Bos and Dr. Gosse Bouma.
- 2018 – 2021 **University of Groningen** – BSc in Information Science
- 2016 – 2020 **University of Groningen** – BA in Communication and Information Sciences

Work experience

- May 2021 –
Mar 2023 **Junior Machine Learning Engineer** – Web-IQ – Groningen
Web-IQ structures and collects OSINT data that is used to combat fraud, child abuse and human trafficking. I worked on NLP solutions: a transparent topic-based system for calculating risk scores for texts; an entity resolution service assisting analysts with entity disambiguation; various text classifiers and their labeling infrastructure. Created CI/CD workflows for the ML team.
- Jul 2019 –
May 2021 **Software Developer** – Beeproger – Groningen
I worked on projects ranging from apps for start-ups to planning software for construction companies. Mostly billing and planning software. A lot of importing and exporting data from and to external (legacy) systems. I had regular contact with customers regarding technical directions of projects.
- 2018 – 2020 **Student Assistant** – University of Groningen – Groningen
- 4 months Teaching assistant for the BSc course *Introduction to Programming I*.
- 4 months Created content for the course *Philosophy of Communication* and translated existing Dutch material to English for Dr. Wim Vuijk.
- 4 months Assisted in translating the book *Onderzoek doen met vragenlijsten* (Doing research with questionnaires) from Dutch to English.
- 12 months Assisted Prof. John Hoeks in a range of research and teaching tasks: creating and analyzing questionnaires, transcribing interviews, translating and distributing research material, representing the student vote in hiring assistant professors (2018 & 2019), and supervising exams.
- 1 month Created yearly report and writing manual for the *Scholierenacademie*.

Teaching experience

- Spring 2023 **Natural Language Processing – Methods and Applications**
Supervisor for elective seminar giving a broad overview of the NLP landscape.
MSc Informatics, Technical University of Munich
- Fall 2019 **Introduction to Programming I**
Teaching assistant (seminars, grading, assisting). Covering the basics of Python.
BSc Information Science, University of Groningen

Publications

- RANLP 2023 **Detecting ChatGPT: A Survey of the State of Detecting ChatGPT-Generated Text**
Mahdi Dhani, Wessel Poelman & Ege Erdogan.
International Conference on Recent Advances in Natural Language Processing: Student Research Workshop (RANLP-SRW)
[\[PDF\]](#) [\[slides\]](#)
- COLING 2022 **Transparent Semantic Parsing with Universal Dependencies using Graph Transformations**
Wessel Poelman, Rik van Noord & Johan Bos.
International Conference on Computational Linguistics (COLING)
[\[PDF\]](#) [\[slides\]](#) [\[poster\]](#) [\[code\]](#)
- SemEval 2022 **RUG-1-Pegasussers at SemEval-2022 Task 3: Data Generation Methods to Improve Recognizing Appropriate Taxonomic Word Relations**
Frank van den Berg^{*}, Gijs Danoe^{*}, Esther Ploeger^{*}, Wessel Poelman^{*},
Lukas Edman & Tommaso Caselli.
International Workshop on Semantic Evaluation (SemEval), co-located with NAACL
[\[PDF\]](#) [\[slides\]](#) [\[poster\]](#) [\[code\]](#)

Talks and tutorials

- Aug 2022 Recognizing Taxonomic Relations using Language Models
Esther Ploeger^{*} & Wessel Poelman^{*}.
Language and Communication Technologies Summer School, Saarland University

Service and training

- Supervisor:** Berkay Uğur Şenocak – MSc Informatics thesis at TUM about evaluating machine-generated text detection. Supervision together with Mahdi Dhani.
- Reviewer:** SemEval 2022, JURIX 2023.
- Aug 2023 34th European Summer School in Logic, Language and Information (ESSLLI)
University of Ljubljana

Skills

Programming

Proficient in: Python, PHP, Typescript (Javascript), SQL, \LaTeX

Familiar with: Java, Prolog, C, SPARQL (RDF)

Software: Git, Pytorch, Huggingface, Laravel, React, React-Native

Languages

Dutch (native)

West-Frisian (native speaking)

English (fluent)

German (beginner)