Wessel Poelman

wesselpoelman.nl · contact@wesselpoelman.nl · Dec, 2023

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

in progress **The CLIN33 Shared Task on the Detection of Text Generated by Language Models**
Many authors, to be determined.
Computational Linguistics in the Netherlands (CLIN Journal)
[slides] [code]

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)
[PDF] [slides] [poster] [code]

Talks and tutorials

Aug 2023 Detecting Machine-Generated Text with Purely Linguistic Features
Wessel Poelman, Juraj Vladika & Esther Ploeger.
CLIN33 Shared task, University of Antwerp

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)