

WESSEL POELMAN

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EDUCATION

MSc Information Science (<i>cum laude</i>)	University of Groningen	2021 - 2022
BSc Information Science	University of Groningen	2018 - 2021
BA Communication & Information Sciences	University of Groningen	2016 - 2020

PROFESSIONAL EXPERIENCE

Doctoral Student, *Technical University of Munich* April 2023 - Nov 2023

Funded PhD position in researching various applied NLP fields. Supervised by prof. Florian Matthes.

Junior Machine Learning Engineer, *Web-IQ* May 2021 - March 2023

Web-IQ structures and collects OSINT data that is used in solving crimes such as fraud, child abuse and human trafficking. I worked on a variety of NLP machine learning solutions, such as a transparent topic-based system for calculating risk scores for texts, an entity resolution service to assist analysts with entity disambiguation, various text classifiers, and the labeling infrastructure required for them. I also created and optimized CI/CD workflows for the machine learning team.

Software Developer, *Beeprager* Jul 2019 - May 2021

I worked on projects ranging from apps for start-ups to planning software for construction companies. Most of my work was in software that dealt with billing and planning, including interfacing with numerous external (legacy) systems to import or export data from and to. I had regular contact with customers regarding technical directions of projects.

Student Assistant / Research Assistant, *University of Groningen* 2018 - 2020

- *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 student vote in hiring assistant professors (2018 & 2019), supervising exams
- *1 month* - Created yearly report and writing manual for the *Scholierenacademie*

SKILLS AND INTERESTS

Computer	Professional	Python, Typescript (Javascript), PHP, (My)SQL, Java
	Academic/hobby	L ^A T _E X, C, Prolog, R, SPARQL (RDF)
	Notable libraries	Spacy, Huggingface, Pandas, Pytorch, Laravel, React(-native)
	Other	Comfortable with working in Unix-like environments, good and practical knowledge of git, basics of ci/cd, basics of Docker
Languages	Dutch	Native speaker
	West-Frisian	Native speaker
	English	Professional speaking and writing skills
	German	Beginner (taking lessons currently)

TEACHING

- Summer 2023 – Supervisor for ‘Natural Language Processing - Methods and Applications’, *MSc Informatics, Technical University of Munich*.
- Summer 2022 – Invited to give a seminar for the **LCT** Summer School, *MSc Language & Communication Technologies, Saarland University*.
- Winter 2019 – Seminars for ‘Introduction to Programming I’, *BSc Information Science, University of Groningen*.

PUBLICATIONS

- **Wessel Poelman**, Rik van Noord, & Johan Bos (2022). Transparent Semantic Parsing with Universal Dependencies using Graph Transformations. In *Proceedings of the 29th International Conference on Computational Linguistics (COLING-2022)*. [[PDF](#)] [[slides](#)] [[poster](#)] [[code](#)]
- Frank van den Berg[‡], Gijs Danoe[‡], Esther Ploeger[‡], **Wessel Poelman**[‡], Lukas Edman, & Tommaso Caselli (2022). RUG-1-Pegasusers at SemEval-2022 Task 3: Data Generation Methods to Improve Recognizing Appropriate Taxonomic Word Relations. In *Proceedings of the 16th International Workshop on Semantic Evaluation (SemEval-2022)*. [[PDF](#)] [[slides](#)] [[poster](#)] [[code](#)]
- Mahdi Dhani, **Wessel Poelman** & Ege Erdogan (2023). Detecting ChatGPT: A Survey of the State of Detecting ChatGPT-Generated Text. In *Proceedings of the Student Research Workshop Associated with RANLP 2023*. [[PDF](#)] [[slides](#)]

[‡] Equal contribution.