

JARNO VROLIJK

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WORKING EXPERIENCE

PhD Candidate

University of Amsterdam

June 2019 - Ongoing

Amsterdam, the Netherlands

Research towards:

- the automatic acquisition of structured knowledge (e.g. ontologies and taxonomies) from large unstructured text corpora.
- disambiguation and/or entity linking of concepts.
- the semantic change of concepts over time. In particular the broadening and narrowing of meaning and the impact of this (e.g. polysemy of terms).
- hybrid architectures that combine compositional, distributional and relational approaches to better understand the linguistic meaning of a text (e.g. we combined transformers with parsers that received state-of-the-art performance).

Guest Researcher

OECD

January 2020 - October 2020

Paris, France

- I was responsible for the analysis and development of software to distill information from approximately 200 million raw text documents. Results from this work can be found in the OECD Skill and Employment Outlooks.

Software Developer / Data Scientist

Talent Peaks

October 2017 - June 2019

Eindhoven, the Netherlands

- I was responsible for the development of modules that would later serve as submodules for the Byner app (SalesForce appexchange). I worked on functionalities concerning "Contracting and Compliance" and "Billing and Invoicing".
- Worked on automating database migrations from SalesForce environments (e.g. the cleaning, enriching, and checking of information).

PUBLICATIONS

OntoJob: Automated Ontology Learning from Labor Market Data.

In 2022 IEEE 16th International Conference on Semantic Computing (ICSC) (pp. 195-200). IEEE.

2022

An AI-based open recommender system for personalized labor market driven education.

Advanced Engineering Informatics

2022

CURRENT PROJECTS

- Project for the alignment and integration of additional existing ontologies and/or knowledge bases (e.g. DBPedia, O*NET, ESCO).
- Improving the parser for the translation of natural language to OWL2 description logic.
- Working on methods to grow and update the knowledge base (e.g. Lattice Theory, SAT-solvers).

SKILLS

Research Natural Language Processing
R Computational Semantics Java
Ontology Engineering LaTeX
SPARQL OWL2 RDFS
Language Systems
Software Engineering Python Apex

LANGUAGES

English ●●●●●

Dutch ●●●●●

EDUCATION

PhD Computer Science

University of Amsterdam

2019 - Ongoing

Master's Degree Data Science

Tilburg University

2017 - 2018

B.A. Business Administration

Rotterdam University of Applied Sciences

2013 - 2017