Rogier Hans Wuijts

Curriculum vitae

✍ Utrecht
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Work experience

September 2018 – December 2022

Utrecht University

PhD Computer Science & Energy System Analysis

My PhD was a combination of computer science and energy system analysis at geoscience. The main topic of my PhD was about improving the Unit Commitment problem in order to improve power system modelling tools. The topic and results were in the domain of energy system analysis while the technology and algorithms that I developed were in the domain of computer science.

March 2015 – December 2022

Utrecht University

Teaching Assistant

During my bachelor, master and my PhD I have worked as a teaching assistant for various logic, linguistic and energy science courses at the Utrecht University: Introduction to Logic, Logical Grammars, Semantics and Energy System Modelling.

June 2016 – September 2016

Utrecht University

Research Assistant

In the summer of 2016 I have worked on some small programming project which involved creating software for a linguistic experiment.

Secondary Activities

2015 – 2016	**Chairman activities committee** *at the AI study association*
2017 – 2018	**Chairman drama club** *at the AI study association*

Software skills

C#, Gurobi, F#, Java, Haskell, Python, LaTeX

Education

2018 – 2022	**PhD Computer Science & Energy System Analysis** *Utrecht University*
2016 – 2018	**MSc Computing Science, Cum laude** *Utrecht University*
2012 – 2016	**BSc Artificial Intelligence** *Utrecht University*

Projects

February 2018 – December 2022

Utrecht University

ACDC-ESM

The project was a collaboration of Utrecht University, TenneT and KNMI. We assessed the future European power system under a large variety of weather scenarios. In order to perform these large scale models I created and improved algorithms to perform power system modelling.

October 2017 - May 2018

Utrecht University

Master's Thesis

In my master's thesis I investigated how the use and effect of various operators and strategies in literature of the traveling thief problem (combination of two NP-hard problems) can be justified, explained and improved.

February 2017 – May 2017

Utrecht University

Experimentation Project

In an experimentation project I investigated the PUNCH algorithm that partitions road networks in order to improve the computation time of shortest path queries. I have proposed, implemented and experimented with modifications of the algorithm in order to improve upon the quality and computation time of the partitions.

Communication skills

Dutch	native language
English	fluent (speaking, reading, writing)