

# Jordy Van Landeghem

## Doctoral AI Researcher

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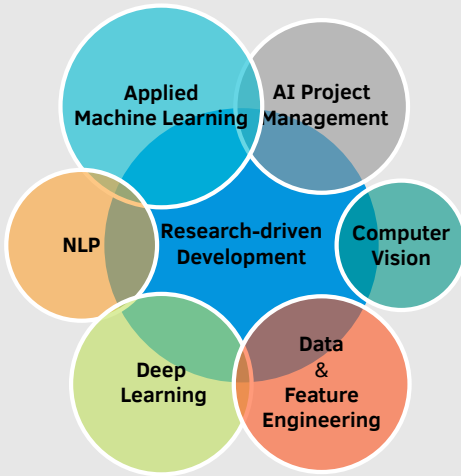
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Jordy-VL

## Skills

### Overview



## Programming

Python • SpaCy, scikit-learn, NLTK, ...

Deep learning • TensorFlow, PyTorch

Javascript • MongoDB • Node JS

Linux Shell • Perl • Regex

## Languages

Dutch	● ● ● ● ●
English	● ● ● ● ●
Spanish	● ● ● ● ●
French	● ● ● ● ●
German	● ● ● ● ●
Portuguese	● ● ● ● ●

## Experience

### Jun 2017 - Present AI/NLP Research Engineer

Contract.fit [Brussels]

- Researching and prototyping the state-of-the-art in NLP to unlock the value trapped in all sorts of complex documents.
- Designed and implemented Machine Learning pipelines for Document Classification and Key Information Extraction.
- Applied end-to-end AI engineering & project management in the context of various application domains: insurance, banking, legal.
- Supervised 9 CS/AI Master's thesis internships

### Mar 2017 - June 2017

#### Research Intern

##### Language Modelling Algorithms

Nuance Communications [Aachen]

- Performed research into advanced regularisation techniques for RNN-based Language Models.
- Contributed to an in-house TensorFlow toolkit and made implementations of biLSTM induction of character-based word embeddings.
- Experimented extensively with different training setups and documented empirical results for future research.

### Aug 2016 - Feb 2017

#### Research Intern

##### NLP Development for Dialogue Systems

Oracle [Barcelona]

- Collaborated with Oracle's Service Cloud development team with the main assignments Chat and Virtual Assistant technology.
- Investigated feasibility of Sequence-to-Sequence Neural networks for Dialogue Modelling & Chatbot Technology
- Presented results at the 27th Conference of Computational Linguistics in the Netherlands (CLIN27)

## Education

### 2020 - Present Ph.D in Engineering Sciences, Computer Science

KU Leuven

Project: *Intelligent Automation for AI-driven Document Understanding*

### 2015 - 2017 Master of Science, Artificial Intelligence:

#### Speech and Language Technology (Magna Cum Laude)

KU Leuven

Thesis: *Sequence-to-Sequence Learning for End-to-End Dialogue Systems*

### 2014 - 2015 Master of Arts, Linguistics:

#### Corpus- and usage-based Methodologies (Magna cum Laude)

KU Leuven

Thesis: *-ing seen through its Dutch Translation Equivalents: a contrastive Parallel Treebank based study*

## Research Publications

Van Landeghem, Jordy, Matthew Blaschko, and Marie-Francine Moens. *Evaluating Stronger Calibration for Probabilistic Structured Prediction* To be submitted, target: April 2022.

Van Landeghem, Jordy, Matthew Blaschko, Bertrand Anckaert, and Marie-Francine Moens. *Benchmarking Scalable Predictive Uncertainty in Text Classification*. Under review at IEEE Access, 2022.

Van Landeghem, Jordy. *uncertainty-bench* (Version 0.0.1) [Computer software], 2021. @ <https://github.com/Jordy-VL/uncertainty-bench>

Van Landeghem, Jordy, Matthew Blaschko, Bertrand Anckaert, and Marie-Francine Moens. *Predictive uncertainty for probabilistic novelty detection in text classification*. In Proceedings ICML 2020 Workshop on Uncertainty and Robustness in Deep Learning. ICML, 2020.

Francis, Sumam, Jordy Van Landeghem, and Marie-Francine Moens, *Transfer Learning for Named Entity Recognition in Financial & Biomedical Documents*. Information 10.8 (2019): 248.