

Matthias De Lange

PHD RESEARCHER · ESAT-PSI

Belgium, Ghent - European drivers license B

✉ matthias.delange@esat.kuleuven.be

Education

PhD

ESAT-PSI (COMPUTER VISION) - KU LEUVEN

Leuven, Belgium

Oct. 2018 - PRESENT

- Extensive survey on incremental and adaptive machine learning of neural networks in the scope of an industrial project.
- Continual learning applications and experiments in the field of computer vision.
- Unsupervised user personalization and adaptation to local data.

Master (Summa cum laude & Laureate)

ENGINEERING TECHNOLOGY ELECTRONICS AND ICT, SPECIALISATION ICT - KU LEUVEN

Ghent, Belgium

Sep. 2017 - Aug. 2018

- Masterthesis speech recognition, Machine Learning and AI courses.
- Experience in Keras, Spring, native Android, JavaSE, RMI, optimization techniques.

Academical Bachelor (Summa cum laude)

ENGINEERING TECHNOLOGY ELECTRONICS AND ICT, SPECIALISATION ICT - KU LEUVEN

Ghent, Belgium

Sep. 2014 - Aug. 2017

- Very experienced in JavaSE. Basics of Python, C, C++, SQL, HTML, javascript and Matlab.

Highschool

SCIENCE-MATHEMATICS (ASO) - DON BOSCO COLLEGE ZWIJNAARDE

Ghent, Belgium

Sep. 2008 - Aug. 2014

Professional Experience

STADIUS & MyCellHub

MASTER THESIS

Leuven, Belgium

2017 - 2018

- Development of a noise robust *automatic speech recognition* (ASR) system for cleanroom environments.
- Experience with GMM- and DNN systems in the Kaldi framework and beamforming in MATLAB.
- Writing of the dissertation in English, ditto for all communication and oral defenses.
- Mastered Technologies: Python, Kaldi, MATLAB, Bash

XPlore Group

SOFTWARE DEVELOPER

Ghent, Belgium

Aug. 2017

- Enhance company's internal workflow with the development of a flexible web application for job application management.
- Technologies: Spring Boot, jQuery, Git, Thymeleaf, Spring Data JPA, REST

KU Leuven & Televic

BACHELOR THESIS

Ghent, Belgium

2016 - 2017

- Development of a JavaEE backend that processes sensordata of trains and provides a dynamic data management workflow.
- Development of a native Android app that interoperates as a REST-client with the JavaEE backend.
- Technologies: JavaEE 6, JSF, REST, jQuery, Git, Android, SQLite, Volley

Languages

English

Fluent writing and speaking: main communication language in research group, and weekly reporting of results to industrial partner. Very fluent and enthusiastic reading: academic papers and English literature in spare time.

French

Good reading. Basic writing and speaking.

Dutch

Native Language.

Extracurricular Activities

Guitar and Piano

2005 - PRESENT

- Creativity in improvisations. Self-taught guitarist.

References

Prof. Tinne Tuytelaars

Leuven, Belgium

ESAT - PSI (KU LEUVEN)

- PhD Promotor.
- Specialized research in computer vision and image processing.
- Contact: *Tinne.Tuytelaars@esat.kuleuven.be*

Prof. Toon van Waterschoot

Leuven, Belgium

ESAT - STADIUS (KU LEUVEN)

- Promotor masterthesis automatic speech recognition.
- Specialized research in dynamic systems, signal processing and data analysis.
- Contact: *toon.vanwaterschoot@kuleuven.be*

Prof. Greet Vanden Berghe

Ghent, Belgium

CODES (KU LEUVEN)

- Senior lecturer teaching MSc courses AI, optimization and datastructures & algorithms.
- Specialized research in optimization techniques.
- Contact: *greet.vanden.berghe@kuleuven.be*

Mr. Olivier Ketels

Ghent, Belgium

CONSULTING MANAGER AT XPLORE

- Senior consulting manager at IT consultancy *XPlore Group* and supervisor of the project during my student job.
- Contact: *olivier.ketels@xplore.be*