



COEN DE VENTE

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📅 Born: 04-08-1996 in Zaanstad

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EXPERIENCE

PhD in Medical Image Processing with Deep Learning

DIAG @ Radboud University Medical Center / QurAI @ University of Amsterdam

📅 September 2019 – present

📍 Nijmegen, Amsterdam

- Working on automated retinal disease screening and COVID-19 detection
- Developing uncertainty-based techniques for deep learning generalization
- (Co)-authored publications in [Radiology](#), [ArXiv](#), national and [international conferences](#)
- Side tasks: deep learning cluster dashboarding, managing group publications on diagnijmegen.nl

MSc graduation project

Philips Research

📅 October 2018 – August 2019

📍 Eindhoven

- Published a [journal paper](#) in [IEEE TBME](#) and an [extended abstract](#) for [MIDL](#)
- Explored deep learning approaches for prostate cancer detection and grading from multi-parametric MRI
- Full time (60 ECTS), grade: 9.0/10

Externship

King's College London, St. Thomas Hospital

📅 April 2018 – August 2018

📍 London

- Used convolutional neural networks for left atrium and fibrosis segmentation in CardiacMR
- Left atrium segmentation algorithm was [published as part of the MICCAI challenge STACOM 2018](#)
- Full time (15 ECTS), grade: 9.5/10

Tutor

StudentsPlus

📅 May 2015 – September 2016

📍 Eindhoven

- Teaching various courses to high school students
- Subjects: English, Dutch, German, physics, mathematics, chemistry

EDUCATION

MSc Biomedical Engineering

Medical Image Analysis (IMAG/e) @ Eindhoven University of Technology

📅 September 2017 – August 2019

📍 Eindhoven

- Cum laude (average grade: 8.3/10)
- Focus on machine learning applied to medical imaging
- Also followed courses at Computer Science, Electrical Engineering, and Utrecht University

BSc Biomedical Engineering

Eindhoven University of Technology

📅 September 2014 – July 2017

📍 Eindhoven

- Distinction: *with great appreciation*, honors program (30 ECTS), propedeuse: *cum laude*

- **Thesis:** *A Machine Learning Approach for Skin Capillary Detection in Microscopy Movies and shape features for microscopy image analysis*. Grade: 8.0/10
- Focus on Computational Biology and Medical Image Analysis, followed courses from Computer Science and Physics departments

EXTRACURRICULAR ACTIVITIES

Competitive Programming and Problem Solving

Honors Academy of TU/e

📅 September 2016 – July 2017

📍 Eindhoven

- Participated in programming contests on algorithmic and engineering problems (**Google Hash Code**, **Facebook Hacker Cup**, **BAPC**, **EAPC**)
- Developed **efficient algorithms** for specific problems in a **friendly and competitive setting** and learned to present algorithms and their implementations to peers
- Equivalent of 15 ECTS

Organization Google Hash Code Hub TU/e

g.co/hashcode

📅 January 2017 – February 2017

📍 Eindhoven

Chair Communications **SensUs** Student Competition

Honors Academy of TU/e

📅 June 2015 – September 2016

📍 Eindhoven

- First edition of an international competition on molecular biosensors
- Main activities: Communications with international student teams, sponsors, promotion, website development, website maintenance
- Equivalent of 15 ECTS, assessment: *excellent*

Intro Committee

Study Association SvBMT Protagoras

📅 November 2014 – September 2015

📍 Eindhoven

- Organizing the introduction program for the new first year's students

Developing websites

for small enterprises and institutions

📅 2011 – present

- Using PHP and MySQL
- Developed websites and CMS from scratch, but also using WordPress and WebFlow
- Examples of clients: theoriespeed.nl, parketoutlet.shop, senssus.org

STRENGTHS

PyTorch Keras Python MATLAB L^AT_EX C++ Java JavaScript PHP Git Medical Image Analysis
 Deep learning Machine learning Adobe Illustrator Adobe Photoshop MacOS Linux Windows

REFERENCES

Dr. Mitko Veta

TU/e supervisor during MSc
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Dr. Rashed Karim

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 @ rashed.karim@kcl.ac.uk

Prof. dr. Josien Pluim

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