



COEN DE VENTE

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coendevente.com

Google Scholar

in [linkedin.com/in/coendevente](https://www.linkedin.com/in/coendevente)

Born: 04-08-1996 in Zaanstad, the Netherlands

Enthusiastic about machine learning, computer vision and health.

EXPERIENCE

PhD in Deep Learning for Medical Imaging

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

📅 Sep 2019 – present 📍 Nijmegen & Amsterdam

- Researching applications for **ophthalmology** & **COVID-19**.
- Developing **uncertainty**-based techniques for deep learning generalization.
- Exploring generative methods (**diffusion models** and **GANs**) for optical coherence tomography (OCT) standardization.
- (Co-)authored publications in international journals (e.g., Radiology, IEEE TAI, Ophthalmology Science, TVST), conferences (e.g., ARVO and EURETINA), and ArXiv. See a full publication list on [my website](#).
- Other tasks: deep learning cluster dashboarding, managing group publications on [diagnijmegen.nl](#) and [qurai.amsterdam](#), teaching "AI for Medical Imaging" course.

Web developer

Freelance - for small enterprises and institutions

📅 2011 – 2019

- Used PHP and MySQL.
- Developed websites & CMSes, WordPress and WebFlow.
- Examples of clients: [deventeadministratie.nl](#), [buildbouw.nl](#)

MSc graduation project

Philips Research

📅 Oct 2018 – Aug 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.

Internship

King's College London, St. Thomas Hospital

📅 Apr 2018 – Aug 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.

EDUCATION

MSc Biomedical Engineering

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

📅 Sep 2017 – Aug 2019 📍 Eindhoven

- Cum laude (average grade: 8.3/10).
- Focused on machine learning applied to medical imaging.
- Also followed Computer Science and Electrical Engineering courses.

BSc Biomedical Engineering

Eindhoven University of Technology

📅 Sep 2014 – Jul 2017 📍 Eindhoven

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

EXTRACURRICULAR ACTIVITIES

Competitive Programming and Problem Solving

Honors Academy of TU/e

📅 Sep 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

📅 Jan 2017 – Feb 2017 📍 Eindhoven

Chair Communications [SensUs](#) Student Competition

Honors Academy of TU/e

📅 Jun 2015 – Sep 2016 📍 Eindhoven

- Founded competition that has been running and growing substantially since then.
- Handled communications with international student teams and sponsors, website development and maintenance.
- Equivalent of 15 ECTS, assessment: *excellent*

Intro Committee

Study Association SvBMT Protogoras

📅 Nov 2014 – Sep 2015 📍 Eindhoven

- Organized the introduction program for the new first year's students.

TECHNICAL STRENGTHS

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

NON-PROGRAMMING* LANGUAGES

English (fluent) Dutch (native) German (basic)

*Although these days, such languages could be considered programming languages for large-language model interpreters.

HOBBIES AND INTERESTS

Running Piano Snowboarding Chess Cooking

REFERENCES

[Prof. dr. ir. Clarisa Sánchez](#)

Director QurAI group at University of Amsterdam

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[Dr. Mitko Veta](#)

Eindhoven University of Technology supervisor during MSc

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[Dr. Rashed Karim](#)

Supervisor King's College London

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