

SIMON MUELLER

Medical Student, Computer Scientist (MSc)

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📍 Maastricht



EXPERIENCE

Teaching Assistant

Maastricht University

📅 April 2022 - ongoing 📍 Maastricht

Supporting the lecturers for the courses "Computer Skills, FHML", "Intelligent System", "Introduction to Programming I/II" and "Software Engineering"

Scientific Assistant

University of Bonn / Ophthalmology clinic UKB

📅 Sept 2019 - 2023 📍 Bonn

- Training Deep Learning models to diagnose diabetic retinopathy from smartphone examinations and peripheral artery disease from fundus.
- Tutor for the course "Visual Data Analysis".

Student Assistant

Fraunhofer Institute for Algorithms and Scientific Computing

📅 Oct 2018 - Sept 2019 📍 Sankt Augustin

- Developing a grammar-based parser with ANTLR4 for the Biological expression language (BEL)
- Natural language processing (Named entity recognition, semantic relationships) for psychological assessments

Dual Student

IBM Germany GmbH

📅 Oct 2014 - Sept 2017 📍 Stuttgart

Six internships with different focuses:

- Machine Learning in Healthcare, Sentiment analysis of customer feedback
- Technical support for mobile solutions in Chicago / Agile development
- Full Stack Developer for interactive Webapps

PUBLICATIONS

📈 **Multiple instance learning detects peripheral arterial disease from high-resolution color fundus photography**

Scientific Reports, 1st Author

👁️ **Automated Detection of Diabetic Retinopathy From Smartphone Fundus Videos**

7th MICCAI Workshop on Ophthalmic Medical Image Analysis, 1st Author

EDUCATION

International Track Medicine

University Maastricht

📅 Sept 2020 - June 2026

Topics: Human medicine with a focus on global health, Problem based learning

M.Sc. in Life Science Informatics

Friedrich-Wilhelms-University Bonn

📅 Sept 2017 - June 2020

Thesis: Transfer learning and feature fusion for detecting diabetic retinopathy from smartphone fundus videos - got the thesis award of the Bonner Informatik Gesellschaft (BIG), GPA: 3.3 (max 4.0)

B.Sc. in Applied Computer Science

Corporate State University Stuttgart

📅 Oct 2014 - Sept 2017

Thesis: Anbindung eines Cluster- Dateisystems an eine Cloud, GPA: 3.4

General University Entrance Qualification

Collegium Josephinum Bonn

📅 Sep 2006 - Jun 2014

Focus Mathematics and Physics, GPA: 3.9

SKILLS

German (C2, native)

English (C1)

Dutch (B2 + medical terms)

IT Support

Object Oriented Code

Deep Learning

Computer Vision

Web Engineering

Cloud Computing

Agile Development (SCRUM)

Linux

CI/CD

Python

Java

Javascript/Node.js

C/C++

OpenCV

PyTorch

scikit-learn

OpenGL

INTERESTS



Volunteering

Talking and supporting youngsters @ease



Martial Arts

Shotokan Karate