

Marco Schouten

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marcoschouten.github.io

Kongens Lyngby, 2800, Denmark



Education

Technical University of Denmark

Ph.D. in Computer Vision

Advisor: Dimitrios Papadopoulos, Serge Belongie

Kongens Lyngby, DK

Nov 2023 · Nov 2026

KTH Royal Institute of Technology

M.Sc. in Machine Learning

Grade 4.85/5.0

Stockholm, SE

Aug 2020 · Sep 2022

Delft University of Technology

Exchange in Computer Science

Delft, NL

Aug 2021 · Jan 2022

University of Genoa

B.Sc. in Computer Engineering

Grade 109/110

Genoa, IT

Sep 2017 · Jul 2020

Experience

Technical University of Denmark

Doctoral student

Research in Computer Vision & Deep Learning for Human-Machine Collaboration.

Kongens Lyngby, DK

Nov 2023 · Nov 2026

Pioneer Centre for Artificial Intelligence

Affiliate

Copenhagen, DK

Nov 2023 · Nov 2026

Aptiv PLC

Research Assistant

Developed a LiDAR-based mapping algorithm with deep neural networks for precise lane extraction in HD Maps.

North Rhine-Westphalia, DE

Mar 2023 · Oct 2023

SMaRC Swedish Maritime Robotic Centre

Research Assistant

Developed and optimized sonar-based pose estimation for underwater vehicles, achieving 1m accuracy through sensor analysis.

Stockholm, SE

Feb 2022 · Sep 2022

Projects

Delft University of Technology

Quadrotor Motion Planning

Developed PRM path planner algorithm in Python for autonomous control, improving navigation accuracy.

Delft, NL

Dec 2021 · Jan 2022

Link Report

Delft University of Technology

Delft, NL

Imitation Learning in Human-Robot Skill Transfer Sep 2021 · Dec 2021

Developed software for simulating human hand movements transferred to a manipulator robot.

Link Report

KTH Royal Institute of Technology

AI & Multi Agent Systems

Jan 2021 · Jun 2021

Developed autonomous vehicles in Unity3D for tasks such as path planning, collision avoidance, and drone soccer.

Link Github

Skills

Python, PyTorch, OpenCV, Numpy, Pandas, Git, MongoDB, LaTeX, Bash
English, Italian

Honors

Selected at Nova, a merit-based network to accelerate careers. 2022
Mentee at Lead the Future, a Forbes awarded mentorship organization 2021
Hatrack Award in AI, awarded to the top 20% of the students 2020
Scholarship at University of Genoa 2018, 2019, 2020

Publication

Cademartori, L., Galatà, G., Monaco, C.L., Maratea, M., Mochi, M. and **Schouten, M.**, 2022. An ASP-based Approach to Master Surgical Scheduling. CILC 2022: 37th Italian Conference on Computational Logic

Alviano, M., Bertolucci, R., Cardellini, M., Dodaro, C., Galatà, G., Khan, M., Maratea, M., Mochi, M., Morozan, V., Porro, I. and **Schouten, M.**, 2020. Answer Set Programming in Healthcare: Extended Overview. IPS-RCRA@ AI*IA.

Interests

I enjoy spending my free time outdoors, whether it's hiking or playing tennis. I also have a passion for drawing and painting.