

## MARCO SCHOUTEN

Pioneer Centre for AI, Copenhagen, DK

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[marcoschouten.github.io](https://marcoschouten.github.io)



<b>Research Interest</b>	How to make machines understand the world through generative modeling. Generative models, image generation and understanding.		
<b>Education</b>	Ph.D. Computer Science <i>Technical University of Denmark</i> Advisors: <a href="#">Dim P. Papadopoulos</a> , <a href="#">Serge Belongie</a>	<i>Copenhagen, DK</i>	11/2023- 11/2026
	MSc Machine Learning <i>KTH Royal Institute of Technology</i> GPA: 4.85 / 5.00 Thesis: SLAM Constraint Formation using Side Scan Sonar for AUVs	<i>Stockholm, SE</i>	09/2020- 09/2022
	Exchange Computer Science <i>Delft University of Technology</i>	<i>Delft, NL</i>	2021
	BSc Computer Engineering <i>University of Genoa</i> Thesis: AI for hospital scheduling	<i>Genoa, IT</i>	09/2017- 07/2020
	Ph.D. Student <i>Pioneer Centre for AI</i> Research in machine learning and computer vision.	<i>Copenhagen, DK</i>	01/2023- 10/2023
<b>Experience</b>	Research Intern <i>Aptiv</i> Advisor: <a href="#">Dr. Pascal Colling</a> Researched deep learning algorithms for HD map generation from onboard sensors.	<i>Düsseldorf, DE</i>	01/2023- 10/2023
	Research Intern <i>Swedish Maritime Robotic Centre</i> Advisor: <a href="#">Prof. John Folkesson</a> Developed pose estimation algorithm for underwater vehicles using sonar imagery	<i>Stockholm, SE</i>	01/2022- 09/2022
	Teaching Assistant, Introduction to Deep Learning in Computer Vision, DTU		Fall 2025
<b>Teaching</b>	Teaching Assistant, Advanced Deep Learning in Computer Vision, DTU		Spring 2025
	Academic support teacher (SPS), DTU		Spring 2025
	Teaching Assistant, Introduction to Deep Learning in Computer Vision, DTU		Fall 2024
	Academic support teacher (SPS), DTU		Fall 2024
	Invited Talk at Computer Vision workshop, Pioneer Center for AI		Fall 2024
<b>Publications</b>	<b>Schouten, M.</b> , Kaya, M.O., Belongie, S., Papadopoulos, D.P. <i>Instruction-Guided Precise Image Editing Using Multimodal LLMs.</i> CVPR-W 2025		2025
	<b>Schouten, M.</b> , Kaya, M.O., Belongie, S., Papadopoulos, D.P. <i>POEM: Precise Object-level Editing via MLLM Control.</i> SCIA 2025		2025

	Cadernatori, L., Galatà, G., Monaco, C., Maratea, M., Mochi, M., <b>Schouten, M.</b> <i>An ASP-based Approach to Master Surgical Scheduling.</i> CILC, 2022	2022
	Alviano, M., Bertolucci, R., Cardellini, M., Dodaro, C., Galatà, G., Khan, M.K., Maratea, M., Mochi, M., Morozan, V., Porro, I., <b>Schouten, M.</b> <i>Answer Set Programming in Healthcare: Extended Overview.</i> AI*IA,2020.	2020
<b>Awards</b>	Selected, International Computer Vision Summer School (ICVSS)	2025
	Selected mentee, LeadTheFuture	2021
	Hatrick Award, KTH AI course top 20%	2020
	3-year Scholarship, University of Genoa	2018
<b>Skills</b>	Python, PyTorch, Git, Bash, HPC / IBM LSF	