

MARCO SCHOUTEN

Pioneer Centre for AI, Copenhagen, DK

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marcoschouten.github.io



Research Interest	How to make machines understand the world through generative modeling. Generative models, image generation, editing and understanding.		
Education	Ph.D. Computer Science <i>Technical University of Denmark</i> Advisors: Dim P. Papadopoulos , Serge Belongie	<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
Experience	Ph.D. student <i>Pioneer Centre for AI</i> Research in machine learning and computer vision.	<i>Copenhagen, DK</i>	01/2023- 10/2023
	Research Intern <i>Aptiv</i> Advisor: Dr. Pascal Colling 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: Prof. John Folkesson Developed pose estimation algorithm for underwater vehicles using sonar imagery	<i>Stockholm, SE</i>	01/2022- 09/2022
Teaching	Teaching Assistant, Introduction to Deep Learning in Computer Vision, DTU		2024-2025
	Teaching Assistant, Advanced Deep Learning in Computer Vision, DTU		2025
	Academic support teacher (SPS), DTU		2024-2025
	Invited Talk at Computer Vision workshop, Pioneer Center for AI		2024
Publications	Schouten, M. , Kaya, M.O., Belongie, S., Papadopoulos, D.P. <i>Instruction-Guided Precise Image Editing Using Multimodal LLMs.</i> CVPR-W 2025		2025
	Schouten, M. , 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., Schouten, M. <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.,		2020

Maratea, M., Mochi, M., Morozan, V., Porro, I., **Schouten, M.**
Answer Set Programming in Healthcare: Extended Overview.
AI*IA,2020.

Awards	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
Skills	Python, PyTorch, Git, Bash, HPC / IBM LSF English (proficient), Italian (native)	