Marco Schouten

PhD Student

Copenhagen, Denmark
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 marcoschouten

Research Interests

How to make machines understand the world through generative modeling.

Education

11/2023–11/2026	**Ph.D. Computer Science**, *Technical University of Denmark*, Copenhagen, DK Advisors: Dim P. Papadopoulos, Serge Belongie
08/2020–09/2022	**M.Sc. Machine Learning**, *KTH Royal Institute of Technology*, Stockholm, SE GPA 4.84/5.00
08/2021–01/2022	**Exchange Computer Science**, *Delft University of Technology*, Delft, NL
09/2017–07/2020	**B.Sc. Computer Engineering**, *University of Genoa*, Genoa, IT Final Grade: 109/110 (Rank 4/150)

Experience

10/2023–Present	**PhD Student**, *DTU & Pioneer Centre for AI)*, Copenhagen, DK Advisors: Dim P. Papadopoulos, Serge Belongie Research on generative models for image generation and understanding.
01/2023–10/2023	**Research Intern**, *Aptiv*, Düsseldorf, DE Supervisor: Pascal Colling Developed a deep learning algorithm for HD map generation from radar and LiDAR data.
01/2022–09/2022	**Research Intern**, *KTH & SMaRC*, Stockholm, SE Supervisor: John Folkesson Developed a pose estimation algorithm for underwater vehicles from sonar data.

Awards

2025	Selected, International Computer Vision Summer School (ICVSS)
2021	Mentee, LeadTheFuture Mentorship Program
2020	Hattrick Award, KTH
2018–2020	Scholarship, University of Genoa

Teaching

2024–2025	Teaching Assistant, Introduction to Deep Learning in Computer Vision (DTU)
2025	Teaching Assistant, Advanced Deep Learning in Computer Vision (DTU)
2024–2025	Academic Support, SPS (DTU), Copenhagen, Denmark
2024	Invited Talk, Computer Vision Workshop, Pioneer Centre for AI

Publications

1 **Schouten, M.**, Kaya, M.O., Belongie, S., Papadopoulos, D.P. "Instruction-Guided Precise Image Editing Using Multimodal LLMs." *CVPR Workshops*, 2025. [PDF]

2 **Schouten, M.**, Kaya, M.O., Belongie, S., Papadopoulos, D.P. "POEM: Precise Object-Level Editing via MLLM Control." *SCIA*, 2025. [arXiv]

3 Cadermatori, L., Galatà, G., Monaco, C.L., Maratea, M., Mochi, M., **Schouten, M.** "An ASP-Based Approach to Master Surgical Scheduling." *CILC*, 2022. [PDF]

4 Alviano, M., Bertolucci, R., Cardellini, M., Dodaro, C., Galatà, G., Khan, M.K., Maratea, M., Mochi, M., Morozan, V., Porro, I., **Schouten, M.** "Answer Set Programming in Healthcare: Extended Overview." *AI*IA*, 2020. [PDF]

Skills

Programming	Python, PyTorch, LaTeX
Tools	Git, Bash, High-performance computing (HPC)
Languages	English, Italian