

Alessandro Simoni, Ph.D.

Deep Learning & Computer Vision Engineer

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Links: 🏠 alexj94.github.io | 🔗 LinkedIn | 🐙 GitHub | 🎓 Google Scholar

Summary

I am a dedicated Deep Learning and Computer Vision Engineer. I got my Ph.D. from the University of Modena and Reggio Emilia in April 2024. With experience in 3D Human-Centric Scene Understanding and 3D Object Reconstruction, I have a strong passion for research and advancing the field of Deep Learning.

Work Experience

Covision Lab	April 2024 – (Now)
Deep Learning & Computer Vision Engineer	Brixen, Italy
AlmageLab (University of Modena and Reggio Emilia)	May 2020 – April 2024
Research Fellow / PhD Student	Modena, Italy

Education

University of Modena and Reggio Emilia	November 2020 – April 2024
Ph.D. in Deep Learning and Computer Vision	Modena, Italy
<ul style="list-style-type: none">• Thesis: <i>From Images to 3D Space: The Role of Semantic Keypoints for 3D Perception</i>• Activities: 3D Object Reconstruction (neural rendering, NeRF), 3D Skeleton Pose Estimation	
University of Modena and Reggio Emilia	September 2017 – February 2020
MSc in Computer Science	Modena, Italy

Relevant Publications (full list on Google Scholar)

Depth-based 3D human pose pose refinement: evaluating the refinet framework	2023
A. D'Eusano, A. Simoni, S. Pini, G. Borghi, R. Vezzani, R. Cucchiara	PRL
Semi-perspective decoupled heatmaps for 3D robot pose estimation from depth maps	2022
A. Simoni, S. Pini, G. Borghi, R. Vezzani	IROS + RA-L
Multi-category mesh reconstruction from image collections	2021
A. Simoni, S. Pini, R. Vezzani, R. Cucchiara	3DV
Future urban scene generation through vehicle synthesis	2021
A. Simoni, L. Bergamini, A. Palazzi, S. Calderara, R. Cucchiara	ICPR

Certifications

First Certificate in English (FCE)	December 2020
<ul style="list-style-type: none">• University of Cambridge ESOL Examinations	

Skills

Spoken languages: Italian (mothertongue), English (C1 certified)
Programming languages: Python (proficiency), C/C++ (basic)
Libraries & Tools: PyTorch, OpenCV, Numpy, VSCode, PyCharm