

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

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| 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

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| 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 | |

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| University of Modena and Reggio Emilia | September 2017 – February 2020 |
| MSc in Computer Science | Modena, Italy |

Relevant Publications (* = equal contribution, full list on Google Scholar)

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| 3D Pose Nowcasting: Forecast the future to improve the present | 2024 |
| A. Simoni*, F. Marchetti*, G. Borghi, F. Becattini, L. Seidenari, R. Vezzani, A. Del Bimbo | CVIU |
| KRONC: Keypoint-based Robust Camera Optimization for 3D Car Reconstruction | 2024 |
| D. Di Nucci*, A. Simoni*, M. Tomei, L. Ciuffreda, R. Vezzani, R. Cucchiara | ECCVW |
| 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

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| First Certificate in English (FCE) | December 2020 |
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Skills

Spoken languages: Italian (mothertongue), English (C1 certified)

Programming languages: Python (proficiency), C/C++ (basic)

Libraries & Tools: PyTorch, OpenCV, Numpy, TensorRT, VSCode, PyCharm