# 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 |

- **Thesis**: *From Images to 3D Space: The Role of Semantic Keypoints for 3D Perception*
- **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 (full list on Google Scholar)

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| **Depth-based 3D human pose pose refinement: evaluating the refinet framework** | 2023 |
| A. D'Eusanio, 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 |

- 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