

Andrea Amaduzzi

Research Intern at Niantic Spatial - PhD candidate in Computer Vision

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🌐 AndreAmaduzzi

🐦 andrea-amaduzzi

Professional Experience

Niantic Spatial

Research Intern

London, UK

Sept 2025 – Jan 2026

- Advisors: [Shuai Chen](#), [Eric Brachmann](#), [Tommaso Cavallari](#)
- Working on Multimodal AI for Spatial Reasoning

Datalogic

R&D Vision Software Engineer

Bologna, Italy

June 2020 – Nov 2021

- Resolved critical, low-light barcode reading issues, reducing production error rates by >50% across the product line

KUKA–Corporate Research

Research Intern

Augsburg, Germany

July 2019 – Jan 2020

- Worked on human action recognition through 3D sensors and deep neural networks
- Mentored 30+ new research interns on deep learning workflows and 3D sensor projects, enhancing team productivity and technical alignment

Education

PhD in Data Science and Computation

Computer Vision Laboratory, University of Bologna, Italy

Nov 2021 - March 2026

Advisor: [Prof. Luigi Di Stefano](#)

- Thesis title: "Multimodal AI for 3D-language Understanding"
- Published 3 first-author publications at top-tier conferences (ICCV, NeurIPS)
- Trained large-scale models on LEONARDO CINECA supercomputer, thanks to 3 HPC grants

M.S. in Automation Engineering

University of Bologna, Italy

Sept 2017 - March 2020

- Overseas Project at University of Technology of Sydney (GPA: 3.88/4.0 Top 1%)
- Thesis: "Deep Learning – based Human Actions Recognition in a Collaborative Robotics Environment" at KUKA–Corporate Research, Augsburg, Germany
- Graduation Mark: 110/110 cum laude
- GPA: 29.23/30.00 (Top 3%)

B.S. in Automation Engineering

University of Bologna, Italy

Sept 2014 - July 2017

- Thesis: "sEMG-based Torque Estimation Using Recurrent Neural Networks and Genetic Algorithms"
- Graduation Mark: 110/110 cum laude
- GPA: 28.71/30.00 (Top 1%)

Publications

Andrea Amaduzzi, Pierluigi Zama Ramirez, Giusepppe Lisanti, Samuele Salti, Luigi Di Stefano
"Spatially-aware Weights Tokenization for NeRF-Language Models", **NeurIPS 2025**

Andrea Amaduzzi, Pierluigi Zama Ramirez, Giusepppe Lisanti, Samuele Salti, Luigi Di Stefano
"Scaling LLaNA: Advancing NeRF-Language Understanding Through Large-Scale Training", **under review at TPAMI**

Andrea Amaduzzi, Pierluigi Zama Ramirez, Giusepppe Lisanti, Samuele Salti, Luigi Di Stefano
"LLaNA: Large Language and NeRF Assistant", **NeurIPS 2024**

Andrea Amaduzzi, Giusepppe Lisanti, Samuele Salti, Luigi Di Stefano
"Looking at words and points with attention: a benchmark for text-to-shape coherence", **ICCVW 2023**

Teaching

Computer Vision and Image Processing M	Fall 24
Logic Design T	Spring 24
Logic Design T	Spring 23
Logic Design T	Spring 22

Skills

Languages:

Italian (mother tongue), English (IELTS 8.0), German (A2), Spanish (A2)

Technologies: Python, Pytorch, Vision Language Models, Large Language Models, Generative Diffusion Models, Distributed training, GitLab, C, C++, LaTeX, Linux, Bash, Javascript