

# Andrea Amaduzzi

PhD candidate in Computer Vision actively seeking research internship opportunities

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🔗 [andreamaduzzi.github.io](https://andreamaduzzi.github.io)

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🐦 [andrea-amaduzzi](#)

## Education

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### Ph.D in Data Science and Computation

Nov 2021 - Nov 2025

Computer Vision Laboratory, University of Bologna, Italy

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

- Conducting research at the intersection between 3D computer vision and NLP
- Published findings at top computer vision and machine learning conferences (ICCV, NeurIPS)
- Received acceptance of 3 ISCRA projects for the use of computational resources on LEONARDO CINECA supercomputer

### M.S. in Automation Engineering

Sept 2017 - March 2020

University of Bologna, Italy

- 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
- Supervisors: [Prof. Luigi Di Stefano](#), [Dr. Kirill Safronov](#)
- Graduation Mark: 110/110 cum laude
- GPA: 29.23/30.00 (Top 3%)

### B.S. in Automation Engineering

Sept 2014 - July 2017

University of Bologna, Italy

- Thesis: "sEMG-based Torque Estimation Using Recurrent Neural Networks and Genetic Algorithms"
- Supervisors: [Prof. Claudio Melchiorri](#)
- Graduation Mark: 110/110 cum laude
- GPA: 28.71/30.00 (Top 1%)

## Professional Experience

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### Datalogic

Bologna, Italy

R&D Vision Software Engineer

June 2020 – Nov 2021

- Designed and maintained image processing algorithms for barcode scanning and decoding
- Resolved customer-reported barcode reading issues in challenging lighting conditions, reducing error rates by at least 50%

### KUKA–Corporate Research

Augsburg, Germany

Research Intern

July 2019 – Jan 2020

- Performed a research project on human action recognition using 3D sensors and deep neural networks
- Worked on point cloud registration and fusion using a 3D sensor mounted on a collaborative robot
- Led the onboarding and technical training for 30+ research interns, ensuring seamless integration into deep learning and 3D sensor projects. Provided support in configuring their workstations.

## Publications

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

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

## Teaching

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

## Skills

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### Languages:

Italian (mother tongue), English (advanced), German (A2), Spanish (A2)

**Technologies:** Python, Pytorch, C, C++, LaTeX, Linux, Bash, Javascript