Andrea Amaduzzi

PhD candidate in Computer Vision actively seeking research internship opportunities

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Education

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 the 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, 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

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 an independent 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

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

Computer Vision and Image Processing M	Fall 24
Logic Design T	Spring 23
Logic Design T	Spring 22
Logic Design T	Spring 21

Skills

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

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