



Jacopo Meglioraldi

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Personal data

Birthdate: 04/10/1998 (26 years).
Birthplace: Montecchio (RE), Italy.
Permanent address: Reggio Emilia (RE), Italy.
Citizenship: Italian.

Work History

Nov 2024 - Present **Post-degree research scholarship at VARLab** (Virtual and Augmented Reality Laboratory), University of Bologna, Italy
Subject: Digitization of theatrical outfits and documents for Luciano Pavarotti Foundation

Feb 2024 - Dec 2024 **Internship at VARLab** (Virtual and Augmented Reality Laboratory), University of Bologna, Italy
Subject: Analysis and testing of new learning algorithms for 2D to 3D reconstruction applied to fashion objects

Education

2021 - 2024 **M.Sc. Artificial Intelligence**, University of Bologna, Italy.
Final grade: 107/110
Final dissertation topic: 3D Gaussian Splatting reconstruction with depth enhanced initialization
Advisors: Gustavo Marfia, Pasquale Cascarano

2017 - 2021 **B.Sc. in Automation Engineering**, University of Bologna, Italy.
Final grade: 103/110
Final dissertation: Development of an sEMG-driven simulator for robotic hands interacting with simple objects
Advisors: Claudio Melchiorri, Roberto Meattini

Research Interest

AI for computer vision, diffusion models, generative AI, interactive physics simulations, XR application and theory, 3D volumetric reconstruction, immersive human-machine interactions

Submissions

November 2nd, 2024 **IEEE AIxVR 2025** 7th International Conference on Artificial Intelligence & extended and Virtual Reality
Website: <https://aixvr.tecnico.ulisboa.pt/Home.html>
Title: **A Comparative Analysis of 3D Modeling Methods for Integration into an Extended Reality Platform**

Authors: Pasquale Cascarano, Jacopo Meglioni, Giacomo Vallasciani, Vincenzo Armandi, Giulio Augello, Silvano Carradori, Shirin Hajahmadi and Gustavo Marfia

July 29th, 2024 **XR-SPro 2024** 3rd International Workshop on XR Solutions for Smart Production

Website: <https://www.xr-spro.org/>.

Title: **A comparative analysis of 3D reconstruction devices and algorithms**

Authors: Pasquale Cascarano, Jacopo Meglioni, Vincenzo Armandi, Silvano Carradori, Giulio Augello, Giacomo Vallasciani, Shirin Hajahmadi, Gustavo Marfia

Meaningful Experiences

- 2018 - 2019 **Double Degree program AlmaTong**, Tongji University (Shanghai), China.
Additional courses taken: Chinese Language 1 (30), Chinese Language 2 (30), Chinese History and Culture (28), Intercultural Communication (30)
Duration: 11 months
- Volunteering**
- 2019 - Present **AGESCI Scout instructor**, Reggio Emilia, Italy
Education of new generations to manual and survival skills, civil activism and character formation
- 2019 - 2021 **CARITAS homeless people care projects**, Reggio Emilia, Italy
- 2013 - 2018 **COMPITIAMO Teacher for foreign kids**, Cenacolo Francescano, Reggio Emilia, Italy.

Personal Skills

Language skills

Mother tongue: Italian
Other languages: English (Level B2),
Chinese (Level A1),
French (level A1)

Computer skills

OS: Windows, Linux Ubuntu, Android
Languages: Python, C++, \LaTeX , HTML, React
Software: Microsoft Office, Gimp, Matlab, Blender, Unity, Godot, Arduino

Specific skills

Design and development of learning systems
Development of AI architectures for computer vision applications
Development of AI architectures for natural language processing
Knowledge of computational theory and calculus optimization
Fundamentals of computer graphics and 3D visualization
Fundamentals of XR for interactive application development
Design and development of cross-platform interactive apps
PLC programming for industrial applications
Knowledge of actuators and sensors for industrial application
Modelling and control of mechanical and electrical systems
Modelling and control of robotic agents
Digital drawing, photo editing and simple video-making

Soft skills

Problem solving, creativity and design, intercultural communication, collaboration, teamwork, leadership, negotiation, empathy, organization and management, decision making, autonomy, teaching.

Si autorizza al trattamento dei dati contenuti nel curriculum ai sensi del D. Lgs. 196/03. Le dichiarazioni rispondono al vero ai sensi del D.P.R. 445/2000.