

Vito Scaraggi

PhD Candidate Italian National Program AI for Society

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Education

National PhD Programme in “Artificial Intelligence for Society”

Nov 2024 - ongoing

University of Pisa | IIT-CNR, Pisa

- **Research Unit:** Ubiquitous Internet, IIT [🔗](#)
- **Research Area:** Human-AI Systems, Neurosymbolic AI, Reinforcement Learning
- **Supervisors:** Marco Conti, Andrea Passarella

Master Degree in Computer and Automation Engineering

Sept 2022 - Oct 2024

Polytechnic University of Marche, Ancona

- **Final mark:** 110/110 with honors
- **Date:** 24 Oct 2024
- **Thesis title:** “A novel Logic Tensor Networks framework for addressing graph-based problems” [🔗](#)
- **Supervisor:** Domenico Ursino
- **Co-supervisors:** Francesco Cauteruccio, Enrico Corradini

Bachelor Degree in Computer and Automation Engineering

Sept 2019 - Oct 2022

Polytechnic University of Marche, Ancona

- **Final mark:** 110/110 with honors
- **Date:** 27 Oct 2022
- **Thesis title:** “Design and implementation of blockchain protocols for biometric identification” [🔗](#)
- **Supervisor:** Paolo Santini
- **Co-supervisors:** Marco Baldi, Massimo Battaglioni

Projects

University

Message Passing Neural Network for Next Activity Prediction task

- Implementing Graph Convolutional Neural Network for the next activity prediction task on a company event log

Machine Learning for “PHM North America 2023 ”challenge

- Experimentation of Deep Learning-based solutions for estimating the wear degree of a gearbox from vibrational signals measured under different operating conditions.

Bert fine-tuning for Hate Speech Target Detection task

- Classification of the discriminated population group in posts collected from websites and social networks.

Research

Online Knowledge Distillation and Deep Supervision for Preterm Infants’ Pose Estimation with HRNet

Alessandro Cacciatore, Daniele Berardini, Vito Scaraggi, Adriano Mancini, Sara Moccia, Lucia Migliorelli
under review in “ACM Transactions on Computing for Healthcare”

- Pose estimation on depth images of preterm born babies with HRNet, using knowledge distillation techniques for reducing the computational cost of the network while preserving its performance.

Activities and awards

Hackathon (2023-2024):

- Participation in “HackUNIVPM 2023” and “Hack-AI-thon 2024” at Polytechnic University of Marche.
- Proposal of innovative IT solutions on the topics of “Digitization of major tourist events” and “Smart Cities”.

CyberChallenge.it (2022):

- Participation in the CyberChallenge.it program for training young people in cybersecurity.
- Training course and local competition held at Polytechnic University of Marche [↗](#).

National Olimpiad in Informatics (2016-2019):

- Bronze medal in the national final of the Italian Olympiad in Informatics in Trento (2017) [↗](#).
- Development of skills related to competitive programming in C++.

Certifications

- **Cambridge First Certificate in English**, achieved in Sept 2023.
- **European Computer Driving Licence (ECDL Essential)**, achieved in 2017.

Skills

Technology

Basic: C/C++, Java, Prolog, Javascript/Typescript, Matlab, LaTeX

Intermediate/Advanced: Python, Docker/Docker compose

Languages

Italian: Mother tongue **English:** C1