europass

Alessandro Cacciatore

WORK EXPERIENCE

UNIVERSITY OF MACERATA

UNIVERSITY RESEARCH ASSOCIATE – 05/2025 – CURRENT

Current research involves:

1. compression methods for artificial neural networks, in particular knowledge distillation applied to data-free scenarios;
2. application of deep learning techniques to archival documents' reading;
3. machine learning techniques in healthcare contexts.

UNIVERSITÀ POLITECNICA DELLE MARCHE – ANCONA, ITALY

ASSISTANT RESEARCHER IN UNIVERSITY – 01/09/2021 – 31/10/2022

Research assistant in the project Deep Learning & Multimedia Applications.

SKUOLA.NET – MILAN, ITALY

PRIVATE TUTOR – 01/10/2016 – CURRENT

Latin, Ancient Greek, Math, and Physics tutor for high-school students.

EDUCATION AND TRAINING

01/11/2021 – 23/06/2025 Italy

PH.D. STUDENT - DOTTORATO DI RICERCA Università di Macerata

Development of efficient and sustainable Deep Learning-based frameworks for Computer Vision, tailored to medical images and archival sciences.

Field of study Information and Communication Technologies, Arts and humanities

10/2023 – 01/2024 Vancouver, Canada

VISITING INTERNATIONAL RESEARCH STUDENT University of British Columbia

At UBC, I worked on multi-modal deep learning models, namely Vision-Language models, with professor Muhammad Abdul-Mageed.

Field of study Information and Communication Technologies

25/09/2018 – 28/04/2021

MASTER OF SCIENCE IN BIOMEDICAL ENGINEERING (TECHNOLOGIES FOR ELECTRONICS) Politecnico di Milano

Thesis: A sustainable deep learning approach for limbs' detection in preterm infants depth images.
Supervisor: Prof. R. Dellaca'.
Co-advisors: V. Ottaviani, PhD; S. Moccia, PhD; L. Migliorelli.

Final grade 102/110

16/07/2015 – 25/09/2018

BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING Politecnico di Milano

Final grade 96/110

09/2010 – 07/2015

HIGH SCHOOL DIPLOMA (CLASSICAL STUDIES) Liceo Classico "F. Capece"

Final grade 100/100

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
SPANISH	C2	C2	C2	C2	C2
ENGLISH	C2	C2	C1	C1	C2
RUSSIAN	C1	C1	C1	C1	C1
FRENCH	B1	B2	A2	B1	B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

2025

Online Knowledge Distillation and Deep Supervision for Human Pose Estimation with HRNet

Published on ACM Transactions on Computing for Healthcare

2025

Federated Learning towards the unknown: a deep dive into diabetic retinopathy prediction from real-world EHR structured data on unseen diabetic centers

Presented at ECML-PKDD 2025

2024

A preliminary study on continual learning in computer vision using Kolmogorov-Arnold Networks

arXiv pre-print

2023

Accountable deep-learning-based vision systems for preterm infant monitoring

Computer (56) IEEE, 2023

2022

Some Ethical Remarks on Deep Learning-Based Movements Monitoring for Preterm Infants: Green AI or Red AI?

International Conference on Image Analysis and Processing. Springer, Cham, 2022.

2022

TwinEDA: a sustainable deep-learning approach for limb-position estimation in preterm infants' depth images.

CONFERENCES AND SEMINARS

14/09/2025 – 19/09/2025 Porto, Portugal

Joint European Conference on Machine Learning and Knowledge Discovery in Databases

13/09/2023 – 15/09/2023 Munich, Germany

The Responsible AI Forum

23/05/2022 – 24/05/2022 Lecce, Italy

International Conference on Image Analysis and Processing (ICIAP2021)