

PAOLO MANDICA

PhD Student

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Education

Ph.D. in Computer Science

Jan. 2022 – Present

Sapienza University of Rome - Panasonic R&D

Rome, Italy

- Conducting research on deep learning for computer vision, focusing on self-supervised learning, active learning, hyperbolic geometry, and action recognition.

MSc. in Data Science - 110/110 cum laude

Sept. 2019 – October 2021

Sapienza University of Rome

Rome, Italy

- Specialization in artificial intelligence, machine learning, deep learning, computer vision, information retrieval systems. Master's thesis research on *Self-supervised Representation Learning via Contrastive Walks in Videos*.

B. Eng. in Computer Science and Engineering

Nov. 2016 – July 2019

Roma Tre University

Rome, Italy

Experience

Artificial Intelligence Research Intern

Feb. 2023 – Present

Panasonic R&D AI Laboratory

Mountain View, CA, USA

- Engaged in cutting-edge research on Active Domain Adaptation for Semantic Segmentation, working in collaboration with researchers from BAIR (Berkeley AI Research).

Cloud Engineering Intern

March – June 2019

Xpeppers/Claranet IT

Ciampino (RM), Italy

- Developed a Serverless Application for Monitoring Event-Driven Architectures on AWS which allows clients to monitor their AWS architectures through an intuitive web application and sends alerts in case of errors in the data pipeline or in case of excessive load of the resources. The application developed was the subject of my bachelor's degree final thesis.

Publications

Hyperbolic Self-paced Learning for Self-supervised Skeleton-based Action Representations

Luca Franco, Paolo Mandica, Bharti Munjal, Fabio Galasso

ICLR '23

Teaching

I served as **teaching assistant** and participated in the revision of lectures and the preparation and evaluation of midterm projects and final examinations for the following courses:

Fundamentals of Data Science and Laboratory

Fall 2022

MSc in Data Science, Sapienza University of Rome

Rome, Italy

- The course is an introduction to the basics of Data Science as well as the relating topics from Data Mining, Machine Learning and Image Analysis, using the Python programming language.

Algorithmic Methods of Data Mining

Sept. 2020 – Feb. 2021

MSc in Data Science, Sapienza University of Rome

Rome, Italy

- The course is an introduction to basic algorithmic techniques for data analysis and mining, with emphasis on massive data sets such as large network data.

Additional Skills

Languages: Italian (Native), English (IELTS 7.5, CEFR C1).

Programming Languages: Python, R, SQL, NoSQL (DynamoDB, MongoDB, Cassandra), Java.

Techniques: Data Analysis, Machine Learning, Deep Learning, Data Mining.

Tools: PyTorch, Tensorflow, Scikit-learn, pandas, NumPy, Matplotlib, NetworkX, Spark, Git, Docker, AWS, Unix.