

# PAOLO MANDICA

PhD Student

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## Education

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- PhD 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  
Curriculum specialized on: artificial intelligence, machine learning, deep learning, computer vision, data mining, information retrieval systems. For my master's thesis I conducted 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  
Curriculum specialized on Information Systems, with focus on algorithms and software development.

## Experience

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- Fundamentals of Data Science Teaching Assistant** Sept. 2022 – Feb. 2023  
*MSc in Data Science, Sapienza University of Rome* Rome, Italy
- Served as teaching assistant and participated in the revision of lectures, the preparation of midterm projects and the preparation of final examinations.
  - 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.
- Data Mining Teaching Assistant** Sept. 2020 – Feb. 2021  
*MSc in Data Science, Sapienza University of Rome* Rome, Italy
- Served as teaching assistant and participated in preparing and evaluating midterm projects, holding office hours for students, helping students at learning how to use new tools (git, libraries, etc.).
  - The course focused on developing basic algorithmic techniques for data analysis and mining, with emphasis on massive data sets such as large network data.
- 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

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- Hyperbolic Self-paced Learning for Self-supervised Skeleton-based Action Representations**  
*Luca Franco, Paolo Mandica, Bharti Munjal, Fabio Galasso* ICLR '23
- Research paper developed as a PhD student at Sapienza University of Rome, in collaboration with the AI Laboratory of Panasonic R&D Company of America.
  - Topics: deep learning, self-supervised learning, hyperbolic geometry, action recognition.

## Personal and Technical Skills

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**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.