

CERTIFICATE

TO WHOM IT MAY CONCERN

This is to certify that **Valerio Maglianella** attended the 2021-2022 edition of the:

***Advanced School in Artificial Intelligence (AS-AI)
Interdisciplinary research and applications in Machine Learning, Brain, Mind and Society***

The School started on the 7th of October 2021 and ended on the 25th of March 2022, for a total of 350 hours of courses and 300 hours of off-room Personal Work carried out during the courses.

The School included fundamental and specialistic courses on:

Introduction to AI, Basic Programming Tools (Anaconda, github, Colab), Python Programming for AI, Maths for AI with Python, Probability theory for AI, Numerical Optimization for AI, Machine Learning, AI Lab: Introduction to Neural Networks, Deep Neural Networks, and Image Processing, Big Data Analysis with Pandas, Fundamentals of Reinforcement Learning, Deep Networks and Tensor Flow, AI Lab: ML vs Deep Networks for motion perception, Big Data Transforming, AI for Brain Imaging and EEG, AI&Videogames, Natural Language Processing, Visual Perception and Spatial Computing, AI Lab: Deep networks with Keras and for vision, AI for System Neuroscience, AI Deep Learning for Sentiment Analysis, Probabilistic Computational Models of Brain, Netlogo for Social Simulations, Firing-rate computational models of brain, AI for modelling brain disorders, Model-based Data Analysis, AI for Brain Imaging and EEG, AI Lab: Building brain models, AI Lab: Deep networks for NLP

The School also provided seminars/laboratories on the following issues:

AI&Power, AI Patenting&Tech Transfer, AI&Autonomy, Semantic Knowledge Graph, Robotics for Elder Care, AI Ethical Aspects, Prosthetics and medical robotics, Fundamentals of Neurobiology, Brain Mechanisms of Dependencies, REAL competition: Robot Open-ended autonomous learning, Project Management and Design Thinking, Writing impactful scientific papers, AI European and national Legislation, Blockchain, Individual, social and technological AI impact

Valerio Maglianella successfully accomplished the following Personal Project Work:

“Developing machine learning and deep learning systems for classification and regression”

AS-AI President
Gianluca Baldassarre



AS-AI Director
Daniele Caligiore



Rome, 8th March 2023