



Francesco Frattolillo

EDUCATION AND TRAINING

2021 – CURRENT Rome, Italy

PH.D. IN COMPUTER ENGINEERING Sapienza University of Rome

2017 – 2021 Rome, Italy

MSC IN ARTIFICIAL INTELLIGENCE AND ROBOTICS Sapienza University of Rome

2014 – 2017 Naples, Italy

BSC IN COMPUTER ENGINEERING University of Naples Federico II

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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

ADDITIONAL INFORMATION

PUBLICATIONS

[Scalable and Cooperative Deep Reinforcement Learning Approaches for Multi-UAV Systems: A Systematic Review](#)

– 2023

Frattolillo, F.; Brunori, D.; Iocchi, L.; 2023; MDPI Drones

[Mixed Human-UAV Reinforcement Learning: Literature Review and Open Challenges](#) – 2022

Brandizzi, N.; Brunori, D.; Frattolillo, F.; Trapasso, A. and Iocchi, L., 2023

DRIVING LICENCE

Driving Licence: B

CONFERENCES AND SEMINARS

01/08/2022 – 05/08/2022 – Prague

IEEE RAS Summer School on Multi-Robot Systems

13/06/2022 – 17/06/2022 – Barcelona

Joint EurAI Advanced Course on AI, TAILOR Summer School

01/06/2022 – 02/06/2022 – Toulouse

Speaker at the International Conference on Cognitive Aircraft Systems

SPECIFIC KNOWLEDGE

DRL, MARL and Trustworthy AI

- I have experience with Deep Reinforcement Learning (**DRL**) as I worked on multiple projects involving it. One of these projects was my master's degree thesis, in which I used DRL with self-play to create an agent that adapts its skill based on its opponent.
- Multi-agent Reinforcement Learning (**MARL**) is one of the main topics of my Ph.D. studies. Currently, I am blending MARL solutions with model-based and hierarchical techniques.
- I am working on a project involving computational models of Trust in human-machine teams. My colleagues and I got a workshop accepted on human-AI team trust at the Eleventh International Conference on Human-Agent Interaction (HAI 2023). In addition, I've participated in the 19th EurAI Advanced Course on AI (ACAI) and the 2nd TAILOR summer school. The main topics of this event were Explainable and Trustworthy AI.

Link <https://multitrust.github.io/2ed/>

TEACHING ASSISTANTSHIP

2022 - 2023

Machine Learning, Teacher: Prof. Luca Iocchi, Sapienza University of Rome

PROGRAMMING LANGUAGES

Python, C++, Javascript, SQL, MATLAB, Java
