

Curriculum vitae

PERSONAL INFORMATION

EMANUELE ANTONIONI

WORK EXPERIENCE 2017-2020

AI ENGINEER

QOOWEAR Rome

I developed artificial intelligence algorithms for a startup that proposed the creation of autoregulating thermal wearables. Qoowear won one of the grants awarded by the Horizon2020 project.

2016-2017

Web Developer

Kitel s.r.l Rome

I worked as a web developer for a company that managed bulk-sms buying and selling portals.

STUDY TITLES

2019–present

Ph.D Computer Engineering

Sapienza University of Rome

Thesis work on the integration of Automated Planning and Reinforcement Learning for robot behaviors.

2022-2022

Ph.D. - Computer Engineering, Abroad Visiting period

King's College of London

I worked on the use of a mixture of model-learners to fasten up the learning process of the transition system of a model-based RL algorithm.

2021-2021

Deep Learning and Reinforcement Learning Summer School

2021 CIFAR Deep Learning + Reinforcement Learning Summer School, Online (closed number)

I have taken high-level, in-depth classes with several top of the field professors, including Yoshua Bengio, Doina Precup, and Richard Sutton.

2016-2019

Master Degree in Artificial Intelligence and Robotics

Sapienza University of Rome

109/110 Thesis work on the integration of a sub-optimal planner with a model-free RL algorithm for soccer robots' behaviors.

2012-2016

Bachelor Degree in Computer Science

University of studies of Rome "Tor Vergata"

Thesis on the use of statistical learning techniques for Facebook comments' sentiment analysis.

103/110 PERSONAL SKILLS



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Mother tongue	Italian						
Other languages	UNDERSTANDING		SPEAKING		WRITING		
	Listening	Reading	Spoken interaction	Spoken production			
English	C1	C1	C1	C1	C1		
	IELTS 7.0/9.0 (Released by the British Council of Rome) Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages						
PUBLICATIONS							
2022	Adaptive Team Behavior Planning using Human Coach Commands						
RoboCup 2022: Robot World Cup XXV	Status: Accepted						
2022	Nothing About Us Without Us: a participatory design for an Inclusive Signing						
	Tiago Robot						
IEEE Ro-Man 2022	Status: Accepte	Status: Accepted					
2021							
	Questioning Items' Link in Users' Perception of a Training Robot for Elders Status: Accepted and Published						
International Conference on Social Robotics							
	Coordinatio	n and Coo	acration in Robo	t Soccor			
2021 International Conference on	Coordination and Cooperation in Robot Soccer Status: Accepted and Published						
Computational Collective Intelligence							
2021	1 Game strategies for physical robot soccer players: a survey Status: Accepted and Published						
IEEE Transactions on Games							
2021	Learning a Symbolic Planning Domain through the Interaction with Continuous Environments Status: Accepted and Published						
ICAPS PRL Workshop, 2021							
2021	Learning from the Crowd: Improving the Decision-Making Process in Robot Soccer Using the Audience Noise Status: Accepted and Published, (Best Paper Award winner)						
RoboCup 2021: Robot World Cup XXIV, Springer-Verlag, 2022							
2021							
	Improving Sample Efficiency in Behavior Learning by Using Suboptimal						
RoboCup 2021: Robot World Cup	Planners for Robots Status: Accepted and Published						
XXIV, Springer-Verlag, 2022							
2020	Autonomou	s and rome	ote-controlled by	umanoid robot for fitnes	s training		
2020 Companion Publication of the 2020	Autonomous and remote-controlled humanoid robot for fitness training Status: Accepted and Published						
International Conference on							



Curriculum vitae

2019-Ongoing Team Leader

RoboCup@Soccer SPL

From 2019 I have become the Team Leader of the Sapienza SPQRTeam. I managed the robot behavior development department, coordinating the activities of different team members.

2020-2022

Technical Committee

RoboCup@Soccer SPL

I cooperated in writing the official competition rulebook, and developing and creating rules and challenges for participating teams.

2020-2021

SCIROC - Smart City RObotic Challenge

Technical Committee I contributed to the creation and regulation of a challenge about the use of a signing robot for interaction with deaf people.

2017-2019

Team Member

RoboCup@Soccer SPL

Active member of the Sapienza RoboCup@Soccer SPL team. I have been working mainly using the NAO Robots as a platform. I worked as a robot network communication expert and player behavior developer.

SKILLS

Reinforcement Learning	5+ yrs
Automated Planning	5+ yrs
Machine Learning	5+ yrs
C++	5+ yrs
Python	5+ yrs
Robot Programming	5+ yrs
PyTorch	3+ yrs
Scikit Learn	5+ yrs
Tensorflow	3+ yrs
Linux	5+ yrs
Web Development	5+yrs
Teaching	3+ yrs
Team Leadership	3+ yrs
Project Management	3+ yrs