Birthdate: 1997-10-23 · Address: via Camillo Golgi 39, Milan, Italy © (+39) 348-331-4451 | Section | Se

"The most intriguing aspect of artificial intelligence is human intelligence."

# **Education**

Politecnico di Milano Milan Italy

• Reinforcement learning for real-time control of critical network infrastructures

- Funded by EU Horizon Project AI4REALNET (4M €, 16 partners)
- Supervisor = Marcello Restelli

PhD in Artificial Intelligence

**University of Genoa** Genoa, Italy

M.S. IN ARTIFICIAL INTELLIGENCE

- Scholarship holder at Scuola Superiore IANUA (honour programme for top 5% students).
- Thesis: Efficient Machine Learning for new physics discoveries
- GPA: 29.17/30 Final grade: 110/110 with honours

## **Polytechnic University of Bari**

B.S. IN COMPUTER SCIENCE AND AUTOMATION ENGINEERING

Oct. 2016 - Oct. 2019

Bari, Italy

Oct. 2019 - Mar. 2022

Dec. 2023 - Present

- Outstanding Thesis Award (awarded by the Italian Minister of Economic Development)
- Thesis: Deep learning and object detection techniques for the photo-identification of cetaceans
- GPA: 28.72/30 Final grade: 110/110 with honours

# **Experience**

Politecnico di Milano Milan, Italy

RESEARCH FELLOW May 2023 - July 2024

- Topic = Machine Learning (applied) / Supervisor = Marcello Restelli Distributed RL for the job shop scheduling problem in industrial production plants
  - → Joint work with a large high-tech company

#### Machine Learning Genoa Center (MaLGa)

Genoa, Italy Mar. 2020 - Oct. 2022 RESEARCH FELLOW

 Topic = Machine Learning (theory) / Supervisor = Agnese Seminara Generalization properties of POMDP solvers with simulation of animal behaviour

## MASTER STUDENT

SUMMER RESEARCH STUDENT

- Topic = Machine Learning (applied) / Supervisor = Lorenzo Rosasco Discovering new particles at the Large Hadron Collider, CERN
  - → Joint work with CERN (Switzerland), MIT (Usa). Co-authored 3 papers

#### **European Organization for Nuclear Research (CERN)**

• Topic = Machine Learning (applied) / Supervisors = Thomas Owen James, Emilio Meschi 40 MHZ Scouting at the L1 trigger of the CMS experiment.

→ Acceptance rate: 1500 applications for 40 positions (3%). Publication of a technical report

# National Research Council of Italy (CNR)

Bari, Italy

Geneva, Switzerland

Jun. 2021 - Aug. 2021

• Topic = Machine Learning (applied) / Supervisors = Vito Renò, Rosalia Maglietta Object detection for the photo-identification of cetaceans

→ Joint work with two private research companies (Italy, Portugal). Co-authored 2 papers

Apr. 2019 - Oct. 2019

OCTOBER 16, 2024

# **Publications**

#### State and action factorization in power grids

Sep 2024 Losapio G., Beretta D., Mussi M., Metelli A.M., Restelli, M.

ECML-PKDD 2024, Machine Learning for Sustainable Power Systems workshop

#### Learning new physics efficiently with nonparametric methods

Oct 2022 Letizia, M., Losapio G., Rando M., Grosso, G., Wulzer, A., Pierini, M., Zanetti, M. & Rosasco L.

European Physical Journal C

Smart balancing of E-scooter sharing systems via deep reinforcement learning: a preliminary study

Jul 2022 Losapio G., Minutoli F., Ferrando A., & Mascardi V.

22nd Workshop "From Objects to Agents" (outstanding mention)

## Efficient kernel methods for large scale problems in HEP

Dec 2021 Letizia, M., Losapio G., Rando M., & Rosasco L.

NeurIPS 2021 (Machine Learning and the Physical Sciences Workshop)

## **Machine Learning for 40 MHZ Scouting at CMS**

Sep 2021 Losapio G.

CERN Openlab Technical Report

#### Lightweight and efficient convolutional neural networks for recognition of dolphin dorsal fins

Oct 2020 Losapio G., Maglietta R., Politi T., Stella E., Fanizza C., Hartman K., ... & Renò V.

IMEKO TC-19 International Workshop on Metrology for the Sea

### Combined color semantics and deep learning for the automatic detection of dolphin dorsal fins

May 2020 Renò, V., Losapio G., Forenza, F., Politi, T., Stella, E., Fanizza, C., ... & Maglietta, R.

**Electronics** 

# Other activities \_\_\_

Sep 2024	Talk + poster presentation at <b>ECML-PKDD 2024</b>	Vilnius, Lithuania
Jul 2024	Participation at the <b>Oxford Machine Learning Summer School 2024</b> . Main sponsors: Google DeepMind,	Oxford, UK
	G-Research, Jane Street	Oxioia, on
Sep 2022	Poster presentation at the <b>Mediterranean Machine Learning Summer School 2022</b> . Main sponsors:	Milan, Italy
	Google DeepMind, Università di Milano-Bicocca, Apple, Reply, Bending Spoons	
Sep 2021	Awarded the prize <b>SeaFuture Award 2021</b> for the Bachelor thesis by the Italian Minister for the Economic	La Spezia, Italy
	Development	
Apr 2021	<b>Raised 20,000€</b> from University of Genoa to co-found <i>Al Spot</i> , a non-profit student association committed to	Genoa, Italy
	organizing workshops, conferences and cultural events focused on AI and its impact on society	
Jan 2021	Poster presentation at the <b>Mediterranean Machine Learning Summer School 2021</b> . Main sponsors:	
	Google DeepMind, Università di Milano-Bicocca, Gruppo Sella, Bending Spoons	
Oct 2020	Oral presentation at the <b>International Workshop on Metrology for the Sea</b> . Organizers: University of	
	Naples Parthenope, National Research Council of Italy, Italian Navy	
Aug 2020	Joined <b>LeadTheFuture</b> , a leading mentorship non-profit organization for top-performing italian students in	
	STEM (acceptance rate <20%)	
Nov 2019	Innovation Team <b>Award C1A0 hackathon</b> , <i>Diving into the electricty market</i> . Main sponsors: IREN, Camera di	Genoa, Italy
	Commercio Genova, DigitalTree, Avanade	Genou, italy

# Skills

**Programming** Advanced: Python | Moderate: Java, C/C++, Matlab

**Languages** Italian: native speaker | English: independent user (IELTS 7.5, CEFR level C1)