Gianvito **Losapio**

MSc in Computer Science

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

Education

University of Genoa *Genoa, Italy*

M.S. IN ARTIFICIAL INTELLIGENCE *Oct. 2019 - Mar. 2022*

- Scholarship holder at Scuola Superiore IANUA (honour programme for top students).
- Thesis: *Efficient Machine Learning for new physics discoveries*
- GPA: 29.17/30 - Final grade: 110/110 *magna cum laude*

Polytechnic University of Bari *Bari, Italy*

B.S. IN COMPUTER SCIENCE AND AUTOMATION ENGINEERING *Oct. 2016 - Oct. 2019*

- 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 *magna cum laude*

Experience

Politecnico di Milano *Milan, Italy*

RESEARCH FELLOW *May 2023 - Present*

- 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*

RESEARCH FELLOW *Mar. 2020 - Oct. 2022*

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

MASTER 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) *Geneva, Switzerland*

SUMMER RESEARCH STUDENT *Jun. 2021 - Aug. 2021*

- 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*

INTERN *Apr. 2019 - Oct. 2019*

- 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

Publications

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 2022
Poster presentation at the **Mediterranean Machine Learning Summer School 2022**. Main sponsors: Google DeepMind, Università di Milano-Bicocca, Apple, Reply, Bending Spoons
Milan, Italy

Sep 2021
Awarded the prize **SeaFuture Award 2021** for the Bachelor thesis by the Italian Minister for the Economic Development
La Spezia, Italy

Apr 2021
Raised 20,000€ from University of Genoa to co-found *AI Spot*, a non-profit student association committed to organizing workshops, conferences and cultural events focused on AI and its impact on society
Genoa, Italy

Jan 2021
Poster presentation at the **Mediterranean Machine Learning Summer School 2021**. Main sponsors: Google DeepMind, Università di Milano-Bicocca, Gruppo Sella, Bending Spoons

Oct 2020
Oral presentation at the **International Workshop on Metrology for the Sea**. Organizers: University of Naples Parthenope, National Research Council of Italy, Italian Navy

Aug 2020
Joined **LeadTheFuture**, a leading mentorship non-profit organization for top-performing italian students in STEM (acceptance rate <20%)

Nov 2019
Innovation Team **Award C1A0 hackathon**, *Diving into the electricty market*. Main sponsors: IREN, Camera di Commercio Genova, DigitalTree, Avanade
Genoa, Italy

Skills

Programming   Advanced: Matlab, Python | Moderate: LaTeX, Java, C/C++
Languages   Italian: native speaker | English: independent user (IELTS 7.5, CEFR level C1)