Date of birth: 11 November 1993

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Marco Rossi

Professional Experience

2019 → 2023 **Doctoral Student**, *CERN*, Geneva, Switzerland.
Position funded by the IBM company for developing deep learning models for neutrino physics.

2020 → 2022 **Informatics teaching assistant**, *University of Milan*.
Introduction to C++ course: hands-on lectures.

May-Jun 2019 **Internship and master thesis**, *CERN, Geneva, Switzerland*.
Implementation of generative models for anomaly detection.

Education

2019 → 2023 **Doctoral Student**, *University of Milan*, Milan, Italy.
Applications of machine learning techniques to Monte Carlo event generators.

2016 → 2019 **M.Sc. in Physics**, *University of Milan*, Milano, Italia.
Theoretical and particle physics.

2012 → 2016 **B.Sc. in Physics**, *University of Milan*, Milano, Italia.
Physics, matter sciences, mathematics and statistics.

Research Outcome

The academic transcript including publications list and a lot more is available at www.marcorossi.dev.

Coding Skills

Computing
- Operating Systems: Linux, Windows, MacOS.
- Versioning-control: Git, GitHub.
- Languages: Python, C++, BASH, LaTeX, HTML5, CSS3, PHP
- Data libraries: NumPy, SciPy, Pandas, Scikit-learn, Matplotlib.
- ML Libraries: TensorFlow, PyTorch

Deep Learning
- Computer vision: image classification, image denoising.
- Clustering techniques.
- Reinforcement Learning.

Soft Skills

The studies I undertook and, in particular, working as a PhD student allowed me to forge a **perseverant work ethic** and challenged me to overcome difficulties while learning from experience. I firmly believe in the importance of **team-work and confrontation** to efficiently deliver top quality results. Moreover, the teaching assistant experience and publishing research results in articles helped me to develop and improve both **oral and written communication skills**.

Languages

Italiano Mother tongue.

Inglese IELTS Academic Proficiency Test (Sep 2020), CEFR level equivalent: C1.

Francese Basic understanding and spoken production.

Interests

I believe hobbies and sports are a fundamental part of a person's growth and education. Both represent incredible life enriching opportunities and a genuine way to train physical and mental strength. I have played basketball for almost twenty years, competing in organized regional tournaments.