

RICCARDO CADEI

Machine Learning Researcher

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Lausanne, Switzerland

16 November 1998 (ITA)

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Education

M.Sc. in Data Science

École polytechnique fédérale de Lausanne

Sept 2020 – Aug 2022

Lausanne, Switzerland

Relevant courses: Machine Learning, Applied Data Analysis, Artificial Neural Networks, Deep Learning, Systems for Data Science, Visual Intelligence.

Extra: Attending 'Mediterranean Machine Learning Summer School 2020' organized by DeepMind.

B.Sc. in Mathematical Engineer

Vote: 110/110

Politecnico di Milano

Sept 2017 – July 2020

Milan, Italy

Associations: PoliMI Data Scientists, Associazione Ingegneri Matematici

Thesis: Optimization models for the planning of activities in an Oncology Day-Hospital (San Martino Hospital in Genoa).

Experience

École polytechnique fédérale de Lausanne

Nov 2020 – present

Lausanne, Switzerland

• Research Assistant at VITA Lab

Investigating the limits of Statistical Learning in Motion Forecasting, introducing a Causal formalism and proposing a Robust and Adaptable modular architecture from a Causal Representation perspective. [1], [*]

• Teaching Assistant

in Introduction to Machine Learning for Bioengineers (BIO-322)

• Summer Intern at MLO>IGH Lab

Developing a mobile app for (non-invasive) upper body posture detection using Deep Learning (supervised by Professor Martin Jaggi).

• Research Assistant at LESO-PB Lab

Detecting available rooftop area to install photovoltaic panels from satellite images training a U-Net (FCNN) based model. [2]

L.O.L. Consultants

Dec 2020 – Feb 2021

[remote] Melbourne, Australia

• Machine Learning Engineer

Detecting available rooftop area to install photovoltaic panels from high quality satellite images using Deep Learning.

Publications

[*] One submission to CVPR 2022

[1] Liu Yuejiang, Cadei Riccardo, and Alexandre, Alahi. "Towards Robust and Adaptable Motion Forecasting: A Causal Representation Perspective". In: *Workshop in Distribution Shifts at NeurIPS* (2021).

[2] Roberto Castello, Alina Walch, Raphael Attias, Riccardo Cadei, Shasha Jiang, and Jean-Louis Scartezzini. "Quantification of the available area for rooftop photovoltaic installation from overhead imagery using Convolutional Neural Networks." In: Special Issue of *Journal of Physics: Conference Series*, 2021.

Awards

Machine Learning

Generali Data Challenge 2021

Churn Classification Databon:
Best model and code out of 280 part.

Oracle GraphML Contest 2019

1st pl. in the Kaggle final challenge of GraphML course at Politecnico di Milano in partnership with Oracle Labs (Zurich).

ML4 Networking Contest 2019

1st pl. in the Kaggle final challenge of ML4 Networking course at Politecnico di Milano.

Mathematics

International competition for mathematical and logical games 2018

5th national place (ITA), class L2.

Grand Prix of Applied Mathematics

5th national pl. out of 7500+ stud. 2017

6th national pl. out of 7500+ stud. 2016

Projects

For a structured summary of my projects visit my Personal Portfolio clicking [\[here\]](#) or scanning the QR Code on the right.



Coding

Machine Learning: Python, R, Julia

Deep Learning: PyTorch, Tensorflow

Math: MATLAB, Python, R, AMPL

Big Data: Spark, SQL, HDFS, AWS

Programming: Scala, C

App and Web: HTML, CSS, Andorid Studio

Languages

Italian: C2, English: C1, French: A1

Referees

Professor Alexandre Alahi

EPFL

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Other Interests

- **Marathon Runner** for Atletica Paratico
Marathon regional champion U23. 2018
- **Trainer** of the athletic team of Politecnico di Milano (50+ athletes). 2018-2020
- Long distance **hiker** and **cycle tourist**.