

RICCARDO CADEI

Machine Learning Researcher

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Cambridge (MA), USA

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

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

Experience

Schlumberger Doll Research

Feb 2022 – present

Cambridge (MA), USA

Machine Learning Researcher

Developing new methods and applications of deep learning for causal modeling and interpretation of subsurface data..

École polytechnique fédérale de Lausanne

Nov 2020 – Feb 2022

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 Adaptive modular architecture from a Causal Representation prospective. [1], [2]

Teaching Assistant

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

Research Assistant at MLO>iGH Lab (Summer Intern)

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. [3]

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

- [1] [IN PRINT] Yuejiang Liu, Riccardo Cadei, Jonas Schweizer, Sherwin Bahmani, and Alexandre, Alahi. "Towards Robust and Adaptive Motion Forecasting: A Causal Representation Perspective". In: *CVPR* (2022).
- [2] Yuejiang Liu, Riccardo Cadei, and Alexandre Alahi. "Towards Robust and Adaptive Motion Forecasting: A Causal Representation Perspective". In: *NeurIPS 2021 Workshop on Distribution Shifts: Connecting Methods and Applications*.
- [3] Roberto Castello, Alina Walch, Raphaël Attias, Riccardo Cadei, Shasha Jiang, and Jean-Louis Scartezzini. "Quantification of the suitable rooftop area for solar panel installation from overhead imagery using Convolutional Neural Networks". In: *Journal of Physics: Conference Series*. Vol. 2042. 1. IOP Publishing. 2021, p. 012002.

Awards

Machine Learning

Generali Data Challenge 2021

Churn Classification Dathon:
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, Android 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.