

RICCARDO CADEI

Mathematical Engineer

Private information: @ riccardo.cadei@epfl.ch

+39 3391232740

Lausanne, Switzerland

16 November 1998 (ITA)

Websites: www.riccardocadei.com/

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EDUCATION

M.Sc. in Data Science

École polytechnique fédérale de Lausanne

Sept 2020 – June 2022

Lausanne, Switzerland

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

Research Projects:

- Detecting available rooftop area from satellite images to install photovoltaic panels using a U-Net (FCNN) based model. (at LESO-PB Lab, supervised by Professor Roberto Castello).
- Towards Multi Agent Causal Representation Learning (at Visual Intelligence for Transportation Lab, supervised by Professor Alexandre Alahi).

Teaching Assistant:

Introduction to Machine Learning for Bioengineers (BIO-322)

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.

EXPERIENCE

Research Assistant

Intelligent Global Health Lab - EPFL

Jul 2021 – Sep 2021

Lausanne, Switzerland

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

Machine Learning Engineer

L.O.L. Consultants

Dec 2020 – Feb 2021

[remote] Melbourne, Australia

Using DCNNs for segmentation of aerial images.

PROJECTS

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



PUBLICATIONS

- [SUBMITTED] Yuejiang, L., Cadei, R., & Alahi, A. (2021). Towards robust and adaptable motion forecasting: A causal representation perspective. *Workshop in Distribution Shifts at NeurIPS 2021*.
- Castello, R., Walch, A., Attias, R., Cadei, R., Jiang, S., & Scartezzini, J.-L. (2021). Quantification of the available area for rooftop photovoltaic installation from overhead imagery using convolutional neural networks., *Journal of Physics: Conference Series*.

AWARDS

Machine Learning

Generali Data Challenge 2021
Churn Classification Datathon:
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

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 (mother tongue)

English C1

French A1

REFEREES

Professor Martin Jaggi

@ martin.jaggi@epfl.ch

EPFL

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**.
- **Volunteer** in Bucharest, Caritas
2 weeks of child caring. 2018
- **Volunteer** in Ecuador, Operazione Mato Grosso
7 weeks of social services. 2012