RICCARDO CADEI

Mathematical Engineer

Private information: **@** riccardo.cadei@epfl.ch Websites: **@** www.riccardocadei.com/

Vote: 110/110

32740 • Lausanne, Switzerland • Priccardocadei

16 November 1998 (ITA)

2021

2019

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.

B.Sc. in Mathematical Engineer

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. AMPL

EXPERIENCE

Research Assistant

Machine Learning and Optimization Lab - EPFL

i Jun 2021 – Sep 2021

Lausanne, Switzerland

Developing an app for posture detection.

Machine Learning Engineer

L.O.L. Consultants

Dec 2020 - Feb 2021

▼ [remote] Melbourne, Australia

Using DCNNs for segmentation of aerial images. PyTorch AWS

MAIN PROJECTS

Detecting available rooftop area for installing photo-voltaic panels in Switzerland using U-Net architecture (DCNN). PyTorch

Graph Machine Learning Contest [😱]

Oracle Labs, Politecnico di Milano

Multi-label vertex classification on a protein-protein interaction network generating a powerful embedding of its graph. Python

PUBLICATIONS

Conference Proceedings

 [accepted] 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., CISBAT.

AWARDS

Machine Learning

Generali Data Challenge 💄

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

Oracle GraphML Contest 🛎

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

ML4 Networking Contest 20

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

🚨 = alone, 🐸 = in team

CODING

Python Matlab R SQL Spark Scala

AMPL C RobotC LaTeX Android Studio

Git Jupyter Notebook AWS

LANGUAGES

Italian C2 (mother tongue)

English C1 French A1

REFEREES

Prof. Roberto Castello

EPFL

@ roberto.castello@epfl.ch

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