Alberto Rumi

☑ alberto.rumi@unimi.it

I am a PhD Student at Laboratory for Artificial Intelligence

and Learning Algorithms (LAILA) and CENTAI S.p.A. under the supervision of Nicolò Cesa-Bianchi and Fabio Vitale. My area of research centers around Reinforcement Learning, Online Learning, and Multi-Armed Bandits. I am particularly interested in designing algorithms that enable agents to learn from their interactions with the environment, allowing them to make optimal decisions under uncertain conditions. My focus is on developing methods that provide both theoretical guarantees and empirical validation.



Education

2022 – Current	Ph.D. Student under the supervision of Nicolò Cesa-Bianchi and Fabio Vitale at University of Milan and CENTAI S.p.A. <i>Main focus</i> : Reinforcement Learning, Multi-Agent Reinforcement Learning, Multi-Armed Bandits and Online learning.
2020 – 2022	 M.Sc. Computer Science in University of Milan. Selected coursework: Statistical Methods for Machine Learning, Algorithms for massive datasets, Algorithms and complexity, Distributed Algorithms. Thesis: under the supervision of prof. Christian Quadri, "Multi-agent distributed reinforcement learning for multi-user edge service orchestration" 110 cum laude/110
09/2021 - 02/2022	Exchange Student at Université Catholique de Louvain.
2017 – 2020	B.Sc. Computer Science in University of Milan.

Projects

University Projects

- Frequent item sets for Imdb dataset
 - \cdot Simulation of Multi-Access Edge Computing environment in AnyLogic
 - \cdot Human breathing and heart rate detection with the phone accelerometer

· Prediction of active and inactive cis-regulatory regions with different Machine leaning algorithms. Implementations and reports are available in my github page

Connets LAB

Develop and implementation of the Host Level of the ETSI-MEC architecture in the OMNeT++ simulator. Done with the CONNETS LAB of University of Milan.

Skills

Coding

Experienced in: Python,Erlang, Java, C++ *Familiar* of: OCaml, Scala, C

Hobbies

Sport

I've always been a sports enthusiast, and I have dedicated a significant portion of my life to various athletic pursuits. I played basketball for 12 years as part of the representative team of Bergamo. After my time in basketball, I began practicing Muay Thai and MMA at the Top Team Fighting Bergamo. Currently I left the ring and I am practicing calisthenics and yoga at an amateur level.

Music

I am also a musician at heart, having played both piano and guitar since I was 14. Recently, I have been exploring music production using Ableton Live 10 Suite, and have several projects in progress.