

Bologna, Italy

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On a journey to enhance climate models with Al.

Education

Alma Mater Studiorum - University of Bologna

Bologna, Italy

MSc in Artificial Intelligence

Dec. 2023 - PRESENT

- · Main Topics: Foundations of Al, Machine Learning, Data Mining, Deep Learning, Computer Vision, Natural Language Processing.
- Additional Courses: Climate System modeling, Data Assimilation for Dynamical Systems.

Alma Mater Studiorum - University of Bologna

Bologna, Italy

BSc in Physics (CUM LAUDE)

Sep. 2020 - Dec. 2023

Received a Scholarship given to high-performing STEM students during my first year.

Scientific Lyceum

Forlì, Italy

SCIENTIFIC HIGH SCHOOL DIPLOMA (100/100)

Sep. 2015 - Jun. 2020

Skills

Programming Python (intermediate), C++ (intermediate), LaTeX, CMake

Back-end Django, REST API

Frameworks pandas, polars, xarray, pytorch, scikit-learn

> OS/ VC Linux, MacOS, git, GitHub

DevOps AWS, Docker

Languages Italian (native), English (C1)

Experience

Institute of Computing for Climate Science (ICCS)

Cambridge, UK

Prospective VISITING STUDENT

Feb.-May 2025

· Will be working alongside the ICCS team in the development of online learning in FTorch open source library.

SASIP - The Scale Aware Sea Ice Project

International

GRADUATE STUDENT RESEARCHER

 Research at the intersection of Data Assimilation and Machine Learning to improve sea ice component of climate models as a Team member of Working Package 4.

Fondazione Mondo Digitale

Bologna, Italy

INSTRUCTOR (CONTRACT)

Jul 2024-PRESENT

• Ital.IA Lab Microsoft-funded project: Gave 4 talks with hands-on session (6hrs) on what is AI and how to use generative AI to aid youngsters (especially NEETs) in their job seeking effort (July, November 2024). Forlì, Italy/Remote

Maths/Physics Tutoring

PRIVATE TUTOR

Sep. 2021 - PRESENT

• Giving Mathematics and Physics private lessons to students at the High School and Undergraduate-level.

Extracurricular Activity ____

Institute of Computing for Climate Science Summer School

Cambridge, UK 10th-12th Jul. 2024

· Funded by Schmidt Sciences to participate to the Annual Summer School held by the ICCS of Cambridge University.

• Main topics: Machine learning, deep learning, climate modeling, GPU parallelization.

SASIP Annual Meeting

Bologna, Italy

4th-6th Jun. 2024

POSTER SESSION

· Presented my BSc thesis work at the Group's Annual meeting.