FRANCESCO MORRI

CURRICULUM VITAE

dal 1994 Consorzio Interuniversitario AlmaLaurea
Un ponte fra Università e mondo del lavoro e delle professioni

Born / **19/11/1998** Age / **22**
Place of birth / **RIMINI (RN)**
Nationality/ citizenship / **Italy**
Via Goldoni 24, 47921 RIMINI (RN)
Via Goldoni 24, 47921 RIMINI (RN)
Driving licence / **B**

ID / **5212978** updated on **26/09/21**

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SOFT SKILL

Autonomy 8/10
Self confidence 8/10
Flexibility/Adaptability 10/10
Resistance to stress 9/10
Ability to plan and organize 8/10
Managing information 8/10
Precision/Attention to details 8/10
Learn continuously 9/10
Achievement of objectives 8/10
Entrepreneurial spirit and initiative 7/10
Communication 7/10
Problem Solving 8/10
Team work 10/10
Leadership 8/10

FOREIGN LANGUAGE SKILLS

europass

MOTHER TONGUE(S): **Italian**

ENGLISH GOOD	B2	B2	B2	B2	B2
FRENCH LIMITED	A2	A2	A2	A2	A1

DIGITAL COMPETENCES

Self-assessment grid europass
Information processing Independent user
Communication Independent user
Content creation Basic user
Safety Basic user
Problem solving Independent user

EXPECTATIONS AND FEATURES OF THE DESIRED JOB

INTENTION TO CONTINUE STUDIES: **Yes** / Doctoral studies

ECONOMIC SECTOR: **1.** education, training, research and development / **2.** computer science, data processing and acquisition / **3.** aeronautics, aerospace, shipbuilding

CAREER FIELD: **1.** Engineering and design / **2.** R&D and patents / **3.** Organization

DESIRED JOB: **Research**

Career Goal

I would like to be able to apply the knowledge and tools acquired in these years of study to research and development, mainly concerning the field of physics, with the aim of advancing the study of this subject. In particular, my interest is towards research on artificial intelligence and its development.

ACADEMIC STUDIES

MASTER'S DEGREE
2020 - 2022
ONGOING STUDIES

Politecnico di TORINO
Dipartimento di Scienza Applicata e Tecnologia
Corso di laurea magistrale in physics of complex systems
LM-44 - 2nd level degree in Mathematics and physics: modelling for engineering
Expected graduation date: 07/2022

BACHELOR'S DEGREE
2017 - 2020
CERTIFIED TITLE

Alma Mater Studiorum - Università di Bologna
Scuola di Scienze
Fisica
L-30 - 1st level degree in Physics
Dissertation/thesis title: A thermodynamic approach to deep learning | Thesis supervisor: FIORESI RITA
Age at graduation: 21 | Official duration: 3 years
Final degree mark: **110/110**
Graduation date: 18/09/2020

FOREIGN LANGUAGE SKILLS

DIPLOMAS AND CERTIFICATES

English First Certificate, Cambridge English, 11 Jul 2016 , **Europass level B2**

INFORMATION TECHNOLOGY SKILLS

OFFICE AUTOMATION

Office Suite: (Intermediate) | **Presentation Software:** (Intermediate) | **Spreadsheets:** (Intermediate) | **Web Browser:** (Intermediate) | **Word Processors:** (Intermediate)

COMPUTER PROGRAMMING

Javascript libraries: p5.js (Intermediate) | **Markup languages:** CSS (Foundation) , HTML (Intermediate) | **Parallele computing:** OPENMPI (Intermediate) | **Programming languages:** C++ (Advanced) , Python (Advanced) , ROOT (Intermediate)

SYSTEMS AND NETWORKS MANAGEMENT

Operating systems: (Intermediate)

ICT CERTIFICATES

Certified LabView Associate Developer National Instrumets, 06/03/2019

STUDIES AND EXPERIENCES ABROAD

ITALY
2021

Other experience acknowledged by the course of study (Visiting Student)

PREFERRED DISTRICT TO WORK IN: **1. ABROAD** / **2.** ABROAD

AVAILABILITY FOR BUSINESS TRAVELS: **Yes, including relocation**

AVAILABILITY TO RELOCATE ABROAD: **Yes, even in non-European countries**

At: Scuola Internazionale Superiore di Studi Avanzati - TRIESTE
Place: **Trieste (Italy)** | Language: English | Duration: 5 (months)
As part of my master degree, the first semester of the first year was in Trieste, held by ICTP and SISSA together.

FRANCE
2021

European Union program (Joint Degree)
At: Science Sorbonne Univesite, Universite Paris-Saclay, Universite de Paris
Place: **Parigi (France)** | Language: English | Duration: 5 (months)
As part of my master degree, the first semester of the second year is in Paris, with three universities: Science Sorbonne Univesite, Universite Paris-Saclay and Universite de Paris.

PUBLICATIONS

CONFERENCE PROCEEDINGS
2021

Rita Fioresi, Francesco Faglioni, Lorenzo Squadrani, Francesco Morri, On the Thermodynamic Interpretation of Deep Learning Systems
Organization: Springer, Cham
In the study of time evolution of the parameters in Deep Learning systems, subject to optimization via SGD (stochastic gradient descent), temperature, entropy and other thermodynamic notions are commonly employed to exploit the Boltzmann formalism. We show that, in simulations on popular databases (CIFAR10, MNIST), such simplified models appear inadequate.
link.springer.com/chapter/10.1007%2F978-3-030-8…