ANDREA BRIGLIADORI

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GENERAL INFORMATION

Surname Brigliadori
Name Andrea
Gender Male

Place of birth Rimini, Italy
Date of birth 09/28/2002

Address 1236, Provinciale Uso Street
City Santarcangelo di Romagna (RN)
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Citizenship Italian and San Marinese

EDUCATION

University College London — London, United Kingdom
MSc in ARTIFICIAL INTELLIGENCE FOR BIOMEDICINE AND HEALTHCARE — September 2024 - Present

Bocconi University — Milan, Italy
BACHELOR in MATHEMATICAL AND COMPUTING SCIENCES FOR ARTIFICIAL INTELLIGENCE — September 2021 - July 2024
Course taught in English.
Course class: L-35, Degrees in Mathematical sciences.
Final GPA: 3.901/4.
Thesis: "Building upon the Hopfield Model: the Statistical Physics of Place Cells", supervised by Professor Marc Mézard.
Final grade: 110 cum Laude /110

Boston College — Boston, USA
GPA: 4/4
I have been selected as an Exchange student at Boston College. — January 2024 - May 2024
I spent here the 2024 Spring Semester attending courses related to "Machine Learning and Artificial Intelligence", "Mathematical Modelling for Neuroscience" and "Stochastic Processes and Simulation in Natural Sciences".

Liceo scientifico "Albert Einstein" — Rimini, Italy
High School Diploma — September 2016 - June 2021
Final grade: 100 cum Laude / 100
Included was a three-year national programme in "Biology with Biomedical Emphasis", based on academic performance in scientific subjects.

HONORS AND AWARDS

Technical Support Fundamentals — September 2024
Google
Online certification (23 hours).

Machine Learning with Python — August 2024
IBM
Online certification (13 hours).

Introduction to Java and Object-Oriented Programming — August 2024
University of Pennsylvania
Online certification (19 hours).

Convolutional Neural Networks — August 2024
DeepLearning.AI
Online certification (35 hours).

MATLAB Onramp August 2024
MathWorks
Online certification.

AI LAB third prize June 2023
Francesca Buffa, Full Professor at the Department of Computing Sciences, Bocconi University
A group project requiring to employ Data Analysis and Machine Learning algorithms on large datasets with the aim of retrieving information and making predictions on the correlation between genic expression and the condition (hypoxia or normoxia) of breast cancer cells.

Cambridge Assessment IELTS - C1 January 2023
Listening 8.5 Reading 8.0 Writing 7.0 Speaking 7.0 Overall 7.5

National Excellence Honour Roll June 2021
Registered in the National Excellence Honour Roll (only 3% of italian students).

WORK EXPERIENCE

UCL MedTech Society London, United Kingdom
Member September 2024 - Present

Bocconi AI & Neuroscience Student Association Milan, Italy
Associate February 2023 - September 2024

Mine Crime Milan, Italy
Data Analyst June 2023 - September 2023
This experience allowed me to contribute to the forefront of AI-driven risk analysis, as an intern at Mine Crime. Specifically, my position involved managing large datasets and implementing on them machine learning models, pursuing the achievement of a detailed analysis and prediction of risk scores for cells of dimension 300m x 300m covering the territory of all italian cities.

Santarcangelo Mare Srl Santarcangelo di Romagna (RN)
Waiter June 2022 - August 2022
During this working period I've learnt the abilities required for the profession of the waiter.
Day after day I've had the opportunity to improve my capacities of interacting with clients, to strengthen my ability of managing with lucidity tense situations and to work in team in a coordinate and efficient way.

EXPERIENCE ABROAD

Embassy Docklands London, England
Student July 2019 - July 2019
In-depth study of the English language.

Arklow summer camp Arklow, Ireland
Student June 2017 - July 2017
In-depth study of the English language.

OTHER EXPERIENCES

Ernst & Young June 2024 - September 2024
Startup Competition.
This startup competition gave me the opportunity to ideate BONS.AI, an application based on a multimodal AI model aimed at diagnosing plant diseases, recommending remedies, and potentially contributing to the creation of a comprehensive database on this topic.

ISIC - International Skin Imaging Collaboration June 2024 - September 2024
Skin Cancer Detection with 3D-TBP - Coding Competition.
The competition focused on developing image-based algorithms to identify histologically confirmed skin cancer cases with single-lesion crops from 3D total body photos (TBP).

Leash Bio April 2024 - July 2024
Predict New Medicines with BELKA - Coding Competition.
This competition focused on developing machine learning (ML) models to predict the binding affinity of small molecules to specific protein targets.

Boston College Boston, Massachusetts
Student January 2024 - May 2024
Realization of the 'Protein-Aptamer Ranking Project' for the course 'Machine Learning Project' taught by José Bento Ayres Pereira. The paper applies several Machine Learning algorithms with the objective of ranking the affinity of protein-aptamer complexes

Boston College Boston, Massachusetts
Student January 2024 - May 2024

Realization of the paper 'Image Reconstruction from fMRI Data' for the course 'Biomedical Image Analysis' taught by Professor Donglai Wei. The research aimed to decode fMRI signals to reconstruct the images that generated them, employing a combination of VDVAE, CLIP, and Versatile Diffusion models. Code and description are available at https://github.com/Bevingta/fMRI-to-images.

MIT — Boston, Massachusetts
Student — January 2024

I participated in the 'IAP 2024: Expanding Horizons in Computing - Deep Learning Bootcamp'. Offered by MIT Schwarzman College of Computing, this was an opportunity to discuss in detail the recent developments, techniques and applications of deep learning algorithms.

SDA Bocconi — Milan, Italy
Student — December 2023

After my presentation for the course "Computational Applications in Management" I was welcomed in SDA Bocconi, where I could assist to the presentation of my Professor's research.

National program "Biologia con Curvatura Biomedica" ("Biology with Biomedical Emphasis") — Rimini, Italy
Student — September 2018 - June 2021

Promoted by "Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)", it consisted in a three years long advanced course in Biology and Biomedical Applications.

Seminar "La lingua dell'odio e del mito del superuomo. Pratiche e linguaggi di violenza totalitaria nella Germania nazista e nell'Italia fascista" — Rimini, Italy
Student — October 2019 - February 2020

The seminar aimed to raise awareness about the historical facts of the Second World War, with a particular attention to the philosophical ideas and technological developments of that period.

Gene expression: decoding and interpreting the instructions of human genome — Bologna, Italy
Student — February 2020

This experience offered the opportunity to find a practical application to my studies on genes and genome interpretation in the laboratory of Bologna University.

From honor killing to gender-based violence — Rimini, Italy
Student — May 2019

Promoted by Mondo Donna ONLUS, this seminar aimed to increase students' awareness about the current situation of gender-based discriminations.

LANGUAGE SKILLS

Italian Native speaker
English Professional working proficiency
French Upper-intermediate

IT SKILLS

Good knowledge of operating systems (Windows, iOS, Android) and of common programs (e.g. Office).
Good knowledge of different programming languages, in particular Python, C++ and R.
Good knowledge of optimization algorithms and machine learning models.

EXTRA ACTIVITIES

AGESCI - Gruppo Santarcangelo 1 — Santarcangelo di Romagna (RN), Italy
Volunteer — September 2010 - January 2023

As volunteers, we are involved in actions for children's education, for the protection of the environment and for civil defense.

ADDITIONAL INFORMATION

I am devoting myself to the study of applied mathematics and computer sciences, sure that these disciplines can make me more aware of modern reality and help me actively participate in the transition period we're living.
I'm deeply interested in the study of science that, in the name of innovation, gives substance to human curiosity.