

ANDREA BRIGLIADORI

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GENERAL INFORMATION

- *Date of birth:* 09/28/2002
- *Citizenship:* Italian and San Marinense

EDUCATION

UNIVERSITY COLLEGE LONDON, London, England

MSc 2024 - Present

ARTIFICIAL INTELLIGENCE FOR BIOMEDICINE AND HEALTHCARE

GPA: 85.6/100

Dissertation: "Geometric Deep Learning for Generalisable Estimation of Microscopic Brain Tissue Properties Across MRI Acquisition Settings", supervised by Professor Gary Zhang.

BOSTON COLLEGE, Boston, Massachusetts

Exchange Program 2024 - 2024

GPA: 4/4.

Attended courses related to "Machine Learning and Artificial Intelligence", "Mathematical Modelling for Neuroscience" and "Stochastic Processes and Simulation in Natural Sciences".

BOCCONI UNIVERSITY, Milan, Italy

BSc 2021 - 2024

MATHEMATICAL AND COMPUTING SCIENCES FOR ARTIFICIAL INTELLIGENCE

Final grade: 110 cum Laude /110 (GPA: 3.9/4).

Thesis: "Building upon the Hopfield Model: the Statistical Physics of Place Cells", supervised by Professor Marc Mézard.

Course class: L-35, Degrees in Mathematical sciences.

Course taught in English.

LICEO SCIENTIFICO "ALBERT EINSTEIN", Rimini, Italy

High School Diploma 2016 - 2021

Final grade: 100 cum Laude / 100 (GPA 10/10).

Included was a three-year national programme in "Biology with Biomedical Emphasis", an advanced course in biology and biomedical applications with admission based on academic performance in scientific subjects.

HONOURS AND AWARDS

BOCCONI UNIVERSITY

Milan, Italy

AI LAB Third Prize

May 2023 - June 2023

- Applied machine learning to identify correlations between gene expression and breast cancer cell conditions (hypoxia vs. normoxia).

LICEO SCIENTIFICO "ALBERT EINSTEIN"

Rimini, Italy

National Excellence Honour Roll

June 2021 - July 2021

- Registered in the National Excellence Honour Roll (only 3% of Italian students).

RESEARCH EXPERIENCE

UNIVERSITY COLLEGE LONDON

London, England

Quantification of Hepatic Iron Overload using MRI

March 2025 - April 2025

- Quantified iron overload in livers of patients with thalassemia. This quantification is useful for guiding chelation therapy, the treatment required to remove excess iron.

UNIVERSITY COLLEGE LONDON

London, England

Machine Learning for Localising Proteins

February 2025 - March 2025

- Developed machine learning models for protein sequence data to predict subcellular localisation, a key determinant of protein function.

BOSTON COLLEGE
Protein-Aptamer Ranking Project

Boston, Massachusetts
January 2024 - May 2024

- Applied several machine learning algorithms with the objective of ranking the affinity of protein-aptamer complexes.

BOSTON COLLEGE
Image Reconstruction from fMRI Data

Boston, Massachusetts
January 2024 - May 2024

- Implemented deep learning models to reconstruct images from fMRI signals.

ADDITIONAL EXPERIENCE

OXML ML X HEALTH & BIO
Summer School

Oxford, England
August 2025 - August 2025

- Participated in lectures on how cutting-edge machine learning is transforming health and biomedicine.

UCL MEDICAL IMAGE COMPUTING & SURGICAL SCIENCES
Summer School

London, England
June 2025 - July 2025

- Participated in lectures covering recent developments across medical image computing and surgical science research.

UCL MEDTECH SOCIETY
Member

London, England
September 2024 - Present

ISIC - INTERNATIONAL SKIN IMAGING COLLABORATION
Skin Cancer Detection - Coding Competition

Online
June 2024 - September 2024

- Implemented image-based algorithms to identify skin cancer cases with single-lesion crops from 3D total body photos.

LEASH BIO
Predict New Medicines with Belka - Coding Competition

Online
April 2024 - July 2024

- Developed machine learning models to infer the binding affinity of small molecules to specific protein targets.

BOCCONI AI & NEUROSCIENCE STUDENT ASSOCIATION
Associate

Milan, Italy
February 2023 - July 2024

MINE CRIME
Data Analyst Intern

Milan, Italy
June 2023 - September 2023

- Worked in team and developed machine learning models to generate crime risk scores across all Italian cities.

CERTIFICATIONS

IBM
Machine Learning with Python (13 hours)

Online
August 2024 - September 2024

DEEPLEARNING.AI
Convolutional Neural networks (35 hours)

Online
August 2024 - September 2024

EXTRACURRICULAR ACTIVITIES

MIT
IAP 2024: Expanding Horizons in Computing - Deep Learning

Boston, Massachusetts
January 2024 - January 2024

- Selected through an admission process to attend a conference on the most recent applications of deep learning.

AGESCI - GRUPPO SANTARCANGELO 1 (SCOUTS)
Volunteer

Santarcangelo di Romagna (RN), Italy
September 2010 - January 2023

- Volunteered in initiatives supporting children's education, environmental protection, and civil defence.

ADDITIONAL SKILLS

- Language: Italian (native speaker), English (professional working proficiency), and French (upper-intermediate).
- IT skills: proficient in Windows, iOS, Android, Office, and programming languages including Python, MATLAB, C++, and R.