

ANDREA BRIGLIADORI

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GENERAL INFORMATION

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

EDUCATION

UNIVERSITY COLLEGE LONDON, London, England

MSc 2024 - 2025

ARTIFICIAL INTELLIGENCE FOR BIOMEDICINE AND HEALTHCARE

Final grade: Distinction (GPA: 85.1/100).

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: 4/4).

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

March 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

HAWKES INSTITUTE, UNIVERSITY COLLEGE LONDON

London, England

Visiting researcher in computational neuroimaging

August 2025 - Present

- Conducting research on improving the clinical applicability of machine learning in brain imaging to accelerate neurological diagnosis; submitted first-author ISMRM abstract.

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
Machine Learning for Localising Proteins

- Developed interpretable biomarkers from protein sequences to infer subcellular compartment using machine learning.

London, England
February 2025 - March 2025

BOSTON COLLEGE
Image Reconstruction from fMRI Data

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

Boston, Massachusetts
January 2024 - May 2024

ADDITIONAL EXPERIENCE

OXML ML X HEALTH & BIO
Summer School

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

Oxford, England
August 2025 - August 2025

UCL MEDICAL IMAGE COMPUTING & SURGICAL SCIENCES
Summer School

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

London, England
June 2025 - July 2025

UCL MEDTECH SOCIETY
Member

London, England
September 2024 - September 2025

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

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

Online
June 2024 - September 2024

LEASH BIO
Predict New Medicines with Belka - Coding Competition

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

Online
April 2024 - July 2024

BOCCONI AI & NEUROSCIENCE STUDENT ASSOCIATION
Associate

Milan, Italy
February 2023 - July 2024

MINE CRIME
Data Analyst Intern

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

Milan, Italy
June 2023 - September 2023

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

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

Boston, Massachusetts
January 2024 - January 2024

AGESCI - GRUPPO SANTARCANGELO 1 (SCOUTS)
Volunteer

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

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

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.