

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 ARTIFICIAL INTELLIGENCE FOR BIOMEDICINE AND HEALTHCARE 2024 - 2025
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", "Biomedical Image Analysis" and "Stochastic Processes and Simulation in Natural Sciences".

BOCCONI UNIVERSITY, Milan, Italy

BSc MATHEMATICAL AND COMPUTING SCIENCES FOR ARTIFICIAL INTELLIGENCE 2021 - 2024
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

AI LAB Third Prize Milan, Italy
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"

National Excellence Honour Roll Rimini, Italy
June 2021 - July 2021
• Registered in the National Excellence Honour Roll (only 3% of italian students).

RESEARCH EXPERIENCE

HAWKES INSTITUTE, UNIVERSITY COLLEGE LONDON

Visiting researcher in computational neuroimaging London, England
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

Quantification of Hepatic Iron Overload using MRI London, England
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

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 - September 2025

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

DEEPMLEARNING.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.