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
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: 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

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.

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

BOSTON COLLEGE Boston, Massachusetts
Image Reconstruction from fMRI Data *January 2024 - May 2024*
- Implemented deep learning models to reconstruct images from fMRI signals.

ADDITIONAL EXPERIENCE

OXML ML X HEALTH & BIO Oxford, England
Summer School *August 2025 - August 2025*
- Participated in lectures on how cutting-edge machine learning is transforming health and biomedicine.

UCL MEDICAL IMAGE COMPUTING & SURGICAL SCIENCES London, England
Summer School *June 2025 - July 2025*
- Participated in lectures covering recent developments across medical image computing and surgical science research.

UCL MEDTECH SOCIETY London, England
Member *September 2024 - September 2025*

ISIC - INTERNATIONAL SKIN IMAGING COLLABORATION Online
Skin Cancer Detection - Coding Competition *June 2024 - September 2024*
- Implemented image-based algorithms to identify skin cancer cases with single-lesion crops from 3D total body photos.

LEASH BIO Online
Predict New Medicines with Belka - Coding Competition *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 Milan, Italy
Associate *February 2023 - July 2024*

MINE CRIME Milan, Italy
Data Analyst Intern *June 2023 - September 2023*
- Worked in team and developed machine learning models to generate crime risk scores across all Italian cities.

CERTIFICATIONS

IBM Online
Machine Learning with Python (13 hours) *August 2024 - September 2024*

DEEPLEARNING.AI Online
Convolutional Neural networks (35 hours) *August 2024 - September 2024*

EXTRACURRICULAR ACTIVITIES

MIT Boston, Massachusetts
IAP 2024: Expanding Horizons in Computing - Deep Learning *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) Santarcangelo di Romagna (RN), Italy
Volunteer *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.