

# ANDREA BRIGLIADORI

Bourne Estate, Portpool Lane, EC1N 7UL, London (UK) • +393317115748 • andribrigli@gmail.com

## 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: 85/100

*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**  
**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.