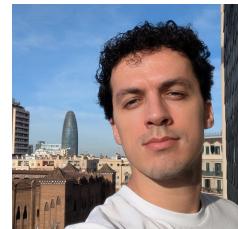# ANTONELLO GIORGIO

MSc Student in Sound and Music Computing — AI Engineer

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LinkedIn Profile — GitHub Portfolio — Personal Website

EDUCATION

MSc in Sound and Music Computing *Sep 2025 – 2026*
Universitat Pompeu Fabra (UPF), Barcelona, Spain
Focus: Audio Signal Processing, Music Information Retrieval, Audio AI.

MSc in Artificial Intelligence and Robotics *Jan 2022 – 2025*
Sapienza University of Rome, Italy
Thesis: "LLM-Powered Emotion Recognition from Music-Evoked EEG Signals".
Specialization: Machine Learning, Deep Learning, NLP, Computer Vision, Neuroengineering.

BSc in Computer and Control Engineering *2018 – 2021*
Sapienza University of Rome, Italy
Grade: 110/110. Solid foundation in software engineering, algorithms, and control systems.

EMPLOYMENT HISTORY

Graduate Student Researcher *Sep 2024 – Dec 2024*
Imperial College London (Remote)

- Conducted research for Master's thesis on LLM-Powered Emotion Recognition from EEG signals.
- Explored the integration of EEG signals with Deep Learning models.

SELECTED PROJECTS

Master Thesis: LLM-Powered Emotion Recognition
Proposed a novel dual-branch architecture combining Large Language Models (GPT-2, LLaMA) and Dynamic Graph CNNs. Implemented a self-supervised masked reconstruction task with LoRA fine-tuning, achieving State-of-the-Art performance on the DEAP dataset.

Tennis Stroke AQA
Action Quality Assessment on Tennis Strokes using a BiLSTM Framework. Starting from a video recording, the system produces a score that evaluates how closely the movement approximates that of a professional player.

DSP for Sound & Music
Completed 9 assignments covering spectral processing, audio transformation, and synthesis technologies. Moreover, a final project related to these topics is showcased.

ML for Sound & Music
A collection of 8 Deep Learning assignments focusing on audio classification and generative audio models, developed during the Master's program at UPF.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, MATLAB, SQL, LaTeX
AI & Frameworks: PyTorch, TensorFlow, Scikit-learn, Lightning, ROS, OpenCV
Tools & Platforms: Git, Linux, Docker, Jupyter
Core Competencies: Machine Learning, Deep Learning, NLP, Computer Vision, Signal Processing

LANGUAGES

Italian: Native
English: Proficient (C1)
Spanish: Intermediate (B1)