



# ALBERTO DI MARIA

Music and Acoustic Engineer

## CONTACTS



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[Alberto Di Maria](#)



[albedimaria](#)

## TECH SKILLS

Languages and Frameworks:

- Python
- C++
- MATLAB

Audio:

- Juce

Deep Learning:

- TF / Keras / PyTorch
- Librosa / Essentia

Generative Models:

- VAEs / GANs
- Diffusion / Transformers

Tools:

- Git
- Docker
- AWS

## LANGUAGES

Italian - native

English - advanced

Spanish - intermediate

French - elementary

## PROFILE

MSc graduate in Music and Acoustic Engineering, specialized in **deep learning applied to audio**.

Experienced in signal analysis, generative models, and interactive audio systems.

Interested in applied research and real-world innovation in sound and music technology.

## EDUCATION

**Electrical Engineering**

Università di Padova - Padua, Italy

**M.Sc. Music and Acoustic Engineering**

**[Computer Science and Engineering]**

Politecnico di Milano - Milan, Italy

**Further training**

Creative Machine Learning – IRCAM / ACIDS

- Course on ML for audio: fundamentals, neural networks, generative models and transformers.
- 2025, online, 10 weeks, certificate awarded.

Generative Music AI Workshop – MTG & Sound of AI

- Workshop on GenAI for music creation with team-based project development.
- 2025, in person, 1 week, certificate awarded.

Audio Signal Processing for Music Applications – uPF

- Course on audio DSP tools for analysis, transformation, and synthesis of musical signals.
- 2025, online, 10 weeks, in progress.

## WORKING EXPERIENCE

2023 - 2024

**Audio Developer**

*Anecoica Studio - Berlin, Germany*

- Worked on MIR, 3D UIs, and generative audio models. Built full-stack prototype using React.js, Flask, and Python.

2021 - current

**Private Tutor**

*il-Cubo.it - Milan, Italy*

- Tutored over 30 university students in computer science and electronics, strengthening technical expertise and clarity in explaining complex concepts.

## PROJECTS

### BEYOND SPACE: RAVE LATENT INTERPOLATION AUDIO SYSTEM - [github](#)

Tech: *Python, PyTorch, Librosa*

Format: *solo project*

Audio interpolation system using RAVE (VAE-based model), exploring latent manipulation for generative synthesis.

### DEEP LEARNING FOR MUSIC GENRE CLASSIFICATION - [github](#)

Tech: *Python, TensorFlow, Keras*

Format: *solo project*

CNN and hybrid RNN (LSTM) for automatic genre recognition, optimized hyperparameters, F1-score, and confusion matrices.