VINCENZO MADAGHIELE

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EDUCATION

2020 - Current

EURECOM
Double Degree - MSc in Data Science and Engineering

Data science and engineering is a master's degree offered by EURECOM, a research center and teaching institution in Southern France. It offers courses on data science subjects and applications such as statistical machine learning and deep learning, plus a variety of theoretical and application courses, all including laboratories and projects.

2019 - Current

Politecnico di Torino
Double Degree - MSc in ICT for Smart Societies

ICT for Smart Societies is a master's degree course offered by Politecnico di Torino. It is focused on information technologies such as machine learning, data science, smart communication networks and IoT. The teaching approach is based on multidisciplinary projects and laboratories, besides a strong theory basis.

2016 - 2019

Politecnico di Torino
Bachelor's degree - BSc in Cinema and Communications Engineering

Cinema and Communication engineering is a unique bachelor's degree offered by Politecnico di Torino. It is based on a combination of software engineering and communication and media studies, with a solid engineering background. Many courses include group projects and laboratories.

PROJECTS

2020 - Current

MINGUS

A transformer deep neural network for modeling and generation of monophonic jazz melodic lines, named in honor of Charles Mingus (1922 – 1979), American jazz double bassist, composer and pianist.

2020 - Current

Regression of biodiversity species richness

Measuring the species richness biodiversity indicator in forest habitats from satellite observations and environmental parameters in order to provide a scalable, habitat-level method for biodiversity measuring.

2020 - Current

Meditation Machine

Sonification of a particle system with a granular synthesizer with a one-to-one correspondence between particles and sound grains. Modifications of the physical parameters generate new sonic and visual textures.

2019 - Current

LEAF

IoT sensor for air quality measurement in home environment. The sensor extracts multiple air quality metrics and connect them to a cloud infrastructure. The user is provided with a web application for real-time monitoring.

ABOUT

I am curious about the intersections between engineering, science and humanities. I am interested in natural and human systems and models, which I like to explore through music, art and research.

SKILLS

Machine Learning
Python, PyTorch, Sklearn, symbolic music libraries, geospatial libraries, PuLP

Music Production / Interactive art
Logic Pro X, MaxMSP, Cubase

Web development
Html, Javascript, CSS, Vue Js, Angular

Creative coding
Processing

3D modeling
Blender, Maya, Substance Painter

Other
Research, Technical writing, Matlab, Troikatronix Isadora, Esri arcGIS

LANGUAGES

Italiano - native tongue

English - complete professional knowledge

Français - basics

INTERESTS

Music

Sound installations

Biodiversity, ecology

Contemporary art

Media studies

Cultural analytics

Digital humanities