



Giorgio Caizzi

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EXPERIENCE

Environmental Engineer

AECOM URS Italia S.p.A.

Feb. 2021

Milan, Italy

Technical consultancy on remediation procedures in industrial sites across Italy, in compliance with D.Lgs.152/06.

- Developing custom solutions for effective collection, processing, analysis and restitution of environmental data.
- Project management: budgeting, planning, billing and reporting. Meetings with clients.
- Design and implementation of investigation and remediation activities for contaminated water and soil matrices.
- Field supervision of technical activities carried out by subcontractors.
- Relations with national authorities and local authorities (ARPA, Ministry of Environment, Municipalities).

External Collaborator

Wiseair S.r.l.

Mar. 2020 – Dec. 2020

Milan, Italy & Lisbon, Portugal

Development of a GIS-based framework for spatial interpolation of PM2.5 concentration data, using real-time data from a dense network of measuring stations and taking into account the contribution of urban morphology in the dispersion of pollutants.

- Automated processing of real-time pollutant concentration data, using python and GIS tools.
- Development of a tool to assess compliance with air quality international health guidelines.

Event specialist - “Citycrusher” Team

Red Bull S.r.l.

Sep. 2017 – Sep. 2020

Milan, Italy

Managing brand-activation of Red Bull Citycrusher event-car in selected sport events in Italy.

Hero Team Promoter

GoPro EMEA GmbH

May. 2014 – Sep. 2019

Munich, Germany

Promotion of cameras and brand-activation in selected events in Europe.

EDUCATION

BSc & MSc in Environmental and Land Planning Engineering

Politecnico di Milano

Milan, Italy

Sep. 2014 – Dec. 2020

MSc: Data structures, analysis & ML for environment - Advanced Statistics - Advanced GIS - Databases and Spatial SQL

“Spatial interpolation methods for producing high-resolution PM2.5 concentration maps in Milan, Italy”

BSc: Soil & groundwater remediation - Sustainability - Climate change mitigation - Hydrology - Hydraulics - Geology

“Environmental and economical impact of Case dell’Acqua, a free drinking-water distribution project in Milan by MM S.p.A.”

The British School of Brussels

International Baccalaureate (IB Diploma)

Brussels, Belgium

Sep. 2012 – May. 2014

LICENSES






Italian National Association of Engineers: 2021

TECHNICAL SKILLS

Programming: Python, JavaScript & shell
Web frameworks: Flask, Django & Express
Database: SQL, PostGIS & noSQL (MongoDB)
Cloud: AWS, GCP & Azure
Development: git, testing, docs & CI/CD pipelines
API: HTTP, REST & GraphQL

Data Science: pandas, numpy, scikit-learn, tensorflow, matplotlib, seaborn, plotly, geopandas, rasterio
GIS & CAD: ArcGIS & QGIS, AutoCAD, Civil3D
Business Intelligence: Power BI (M & DAX)
Writing: LaTeX, Markdown & reStructuredText
Web: HTML & CSS

PROJECTS

 **py3dinterpolations** quick 3D spatial interpolations
 **pysurflines** python wrapper for surflines.com API
 **repomanager** easily manage GitHub repositories
 **smart-spotify** create smart playlists with Spotify
 **mplstrater** plot stratigraphic logs with matplotlib

python, pandas & geopandas, scikit-learn, numpy, shapely
python, pandas, requests
python, Flask, Jinja2, HTML, CSS
JavaScript, node.js, Express, HTML, CSS
python, pandas & geopandas, matplotlib, shapely, rasterio

PERSONAL SKILLS

Languages: Fluency in Italian (mother tongue) and English. French at professional level.

Interests: skiing, surfing, road-cycling and outdoors. Cartography, infographics and mapping. Tech and AI.

References and letters of recommendation available on request.