

Giorgio Caizzi

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 : [giorgio-caizzi](#)  : [giocaizzi](#)

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 solutions for effective collection, processing, analysis and restitution of environmental spatial data.
- Project management: budgeting, proposals, planning, and billing. Regular meetings with clients.
- Design and implementation of investigation and remediation activities for contaminated water and soils.
- Field supervision of technical activities carried out by subcontractors.
- Relations with national 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 features and their 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)

Development: git, testing, docs & CI/CD pipelines

API: HTTP, REST & GraphQL

Data Science: pandas, numpy, scikit-learn, tensorflow, matplotlib, seaborn, plotly

GIS: ArcGIS, arcpy, QGIS, PostGIS, GDAL, geopandas, shapely, pyproj, rasterio

CAD: AutoCAD, Civil3D


Business Intelligence: Power BI (M & DAX)


Writing: \LaTeX , Markdown & reStructuredText


Web: HTML & CSS


Cloud: AWS, GCP & Azure


PROJECTS

 **py3dinterpolations** quick 3D spatial interpolations

 **mplstrater** plot stratigraphic logs with matplotlib

 **pysurflines** wrapper for surflines.com API

 **repomanager** easily manage GitHub repositories

 **smart-spotify** create smart playlists with Spotify

python, pandas & geopandas, scikit-learn, numpy, shapely, pyproj

python, pandas & geopandas, matplotlib, shapely, rasterio

python, pandas, requests, APIs

python, Flask, Jinja2, HTML, CSS, APIs

JavaScript, node.js, Express, HTML, CSS, APIs

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.