



# 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 custom solutions for effective collection, processing, analysis and restitution of environmental data.
- Project management: proposals, planning, budgeting, billing and reporting. 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 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:**  $\text{\LaTeX}$ , 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, APIs

python, Flask, Jinja2, HTML, CSS, APIs

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

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.