Giorgio Caizzi

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in : 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, bidding, planning, budgeting 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 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

Managining 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 Assotiation 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 — python, pandas & geopandas, scikit-learn, numpy, shapely
◯ **pysurfline**   wrapper for surfline.com API — python, pandas, requests, APIs
◯ **repomanager**   easily manage GitHub repositories — python, Flask, Jinja2, HTML, CSS, APIs
◯ **smart-spotify**   create smart playlists with Spotify — JavaScript, node.js, Express, HTML, CSS, APIs
◯ **mplstrater**   plot stratigraphic logs with matplotlib — python, pandas & geopandas , matplotlib, shapely, rasterio

PERSONAL SKILLS

Languages: Fluency in Italian (mothertongue) 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.