Sofia Costanzini

Environmental Engineer



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languages

italian mother tongue english intermediate

programming

Python, SQL

	Implementation of a Python-GIS tool for the evaluation of the population exposure to pollutants emitted by complex areal sources I programmatically developed some models for the estimation of the popula- tion exposure to some environmental factors to be used in a GIS (Geographic Information Systems) environment. Activity carried out in partnership with the CREAGEN epidemiological team of UNIMORE.		
2009–2012	Master degree in Environmental Engineering 110/110 cum laude	UNIMORE, Modena	
2006–2009	Bachelor degree in Environmental Engineering	UNIMORE, Modena	
2001–2006	Technical Expert in Electronics and Telecommunications Modena	ITI Enrico Fermi,	

PhD in High Mechanics and Automotive Design & Technology

experience

education

Modena

2013–2017

2018–Now	Department of Engineering Enzo Ferrari UNIMORE, Moden
	Postdoctoral Research Fellow
	Development of a SQL-GIS database for the management of monitoring data
	of high contaminated sites.
	 Database PostgreSQL / PostGIS;

- QGIS;
- Develoment of models for the exposure of workers (QGIS Processing Script).

Activity framed into an INAIL (Italian national institute for insurance against accidents at work) project in the field of contaminated sites remediation.

9/2011-3/2012 ENEA (Italian national agency for new technologies, energy and sustainable economic development) Bologna Internship

Development of a methodology for the assessment of the land degradation in Iraq by the use of remote sensing imagery and GIS data.

9/2005-10/2005Phema SNC

Internship CAD designer Savignano sul Panaro

UNIMORE,

awards

2011

Best student

UNIMORE, Modena

trainings

2015	MAIN Expert AESS Agency for energy and sustainable dev	elopement, Modena	
	MAIN Certificate, training course on Intelligent building mater and Cool Pavements	ials: Cool Roofs	
2013	C language	CINECA, Milan	
	Introduction to C programming language for scientific applications		
2013	Python language	CINECA, Milan	
	Python for computational science		

communication skills

- 2012–2018 **Oral presentation and posters** European and italian conferences and workshops I presented the research I conducted in:
 - Remtech Expo, Ferrara;
 - Training course on remediation of contaminated sites, Ravenna;
 - CEST, Rhodes;
 - SIDISA, Milan;
 - SPIE, Amsterdam and Edimburgh;
 - SIBESA, Natal;
 - ASITA, Riva del Garda.

2012–Now Teaching

UNIMORE, Modena

Laboratory of Environmental Remote Sensing in Civil and Environmental Engineering Bachelor's Degre

2018–Now **Teaching** Nuova Didactica, Modena Teacher for the course IFTS Expert in the monitoring and management of the territory, the environment and energy

organization skills

- Drafting of European and Italian projects, including budget and time-lines;
- Field work organization and management.

interests

skiing, music, photography, traveling.

publications

I co-authored of up to five peer-reviewed scientific articles in International journals.