



## Margherita Sarcinella

Remote sensing for Disaster Risk Reduction at Euro-Mediterranean Center of Climate Change (CMCC)

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### Work experience

Dates	September 2021 - present
Occupation or position held	<b>Researcher</b>
Main activities and responsibilities	Remote Sensing analyst Remote sensing for Disaster Risk Reduction
Name and address of employer	CMCC   Euro-Mediterranean Center Climate Change
Type of business or sector	Research & Development
Dates	November 2019 - present
Occupation or position held	<b>Research intern</b>
Main activities and responsibilities	Water, ecosystem & Remote Sensing analyst Developing a method for the out-scalability of rainwater harvesting practices in Middle Eastern agro-pastures
Name and address of employer	ICARDA   International Center for Agricultural Research in Dry Areas
Type of business or sector	Research & Development
Dates	February 2019 – May 2019
Occupation or position held	<b>Research intern</b>
Main activities and responsibilities	Disaster Preparedness Analyst Forecast-based Financing (FbF) • Flood modelling • Update of National Preparedness Plan • Disaster Response & Impact Analysis • Risk, Hazard and Vulnerability Mapping • Geospatial Database Management
Name and address of employer	510.global   Netherlands Red Cross
Type of business or sector	NGO   Research & Development
Dates	February 2019 – May 2019
Occupation or position held	<b>Research intern</b>
Main activities and responsibilities	Remote Sensing Analyst Flood Monitoring and Prevention in Malawi • Pilot Research for setting up Satellite Flood Alert System • Use of High-Resolution satellite-derived Soil Moisture data for Flood Prediction • Analysis of past Flood Events
Name and address of employer	VanderSat & Netherlands Red Cross
Type of business or sector	NGO   Research & Development

### Education and training

Dates	September 2021 - present
Title of qualification awarded	PhD candidate in Science and Management of Climate Change

Principal subjects/occupational skills covered	Research topic: "Bridging the gap between forecast and ex-post disaster impact with remote sensing: the potential of Impact-based Forecasting"
Name and type of organisation providing education and training	Ca' Foscari University of Venice, Italy
Dates	September 2020 – September 2021
Title of qualification awarded	2 <sup>nd</sup> level Master Science and Management of Climate Change
Name and type of organisation providing education and training	Ca' Foscari University of Venice, Italy
Dates	September 2018 – July 2020
Title of qualification awarded	MSc Earth Surface and Water – Geohazards & Earth Observation
Principal subjects/occupational skills covered	Thesis: "Desertification assessment of the Jordan Badia using remote sensing technology" Supervisors: Dr. Geert Sterk (UU), Dr. Stefan Stromheier (ICARDA)
Name and type of organisation providing education and training	Utrecht University, the Netherlands
Dates	September 2014 – December 2017
Title of qualification awarded	BEng Environmental Engineering
Principal subjects/occupational skills covered	Thesis: "Regional Flood Frequency Analysis (RFFA) a case study of the Pescara basin" Supervisor: Dr. Francesco Napolitano
Name and type of organisation providing education and training	University of Rome La Sapienza, Italy

**Personal skills and competences**

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

*European level (\*)*

**English**

**Spanish**

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2	C2	C1	C1	C1	
B2	B2	B1	B1	B1	

(\*) [Common European Framework of Reference for Languages](#)

Computer skills and competences GIS and hydrological modelling software: QGIS, ArcGIS, Google Earth Engine, SWAT, Hydrus, RHEM (Rangeland Hydrology & Erosion Model)  
Pre- and post-processing of raw satellite imagery: GEE, ERDAS Imagine, SNAP (NASA)  
Coding languages: R, Python, Javascript

Last updated: October 6th, 2021