



## Roberta Marini



### WORK EXPERIENCE

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[ 07/06/2021 - Current ] **Junior researcher**

*Research Centre for the Geological Risks (CERI), Sapienza University of Rome*

**City:** Rome

**Country:** Italy

**Main activities and responsibilities:**

- project name: InSAR monitoring of ground deformations in seismic areas
- main assignments: monitoring landslides by InSAR analysis using Cosmo Sky-Med and Sentinel data
- Visualizing data and post processing using QGIS software
- Developing processing data tools in Python
- Working in a multidisciplinary and international team with engineers, geologists, geophysicists and physicists.

[ 17/03/2021 - 01/06/2021 ] **Internship**

*Data Analyst and Web developer*

**City:** London

**Country:** United Kingdom

**Main activities and responsibilities:**

- Google Analytics, social media insights
- WordPress, SEO, Mailchimp

[ 01/09/2019 - 01/03/2020 ] **Internship**

*Graduate Geophysicist*

**City:** Siena

**Country:** Italy

**Main activities and responsibilities:**

- Study of the Amplification Factor to understand the heterogeneous pattern of damages during an historical earthquake.
- Conducted seismic surveys using **MASW** and **HVSR** techniques
- Acquired and analysed raw data using some algorithms like **Monte Carlo**, **simulated annealing**, and **genetic algorithms**.
- Worked in a team of four people.

### EDUCATION AND TRAINING

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[ 01/09/2017 - 19/03/2020 ] **Masters in Physics of the Earth System**

*Alma Mater Studiorum - University of Bologna*

**Address:** Italy

**Field(s) of study:** Physics

**Final grade:** 109/110

**Main subject / occupational skills covered:**

- Studied seismology, tectonophysics, seismic tomography, and geodesy
- Dissertation in applied geophysics, explored reasons behind historical seismic damages in Italy
- Solved differential equation with Runge-Kutta algorithms and others using **Matlab**
- Gained Survey experiences
- Collected raw data for a **gravimetric survey** using LaCoste & Romberg gravity meter

[ 01/09/2012 - 23/09/2016 ] **Bachelor Degree in Physics**

*Sapienza - University of Rome*

**Address:** Italy

**Field(s) of study:** Physics

**Final grade:** 98/110

**Main subject / occupational skills covered:**

- Used **Origin** and **Kaleidagraph** software to analyse data
- Learned **C** language on **Linux (Ubuntu)** environment to solve elementary physics problems
- Worked in teams for lab exams
- Produced accurate reports for each lab experience

[ 01/05/2020 - 30/06/2020 ] **Machine Learning**

*Stanford University at Coursera.org*     <https://www.coursera.org/>

**Main subject / occupational skills covered:**

- ML algorithms: Linear and Logistic Regression, Neural Networks, Clustering
- Programming language: Matlab

[ 01/08/2020 - 31/08/2020 ] **Data Analysis with Python**

*IBM at Coursera.org*     <https://www.coursera.org/>

**Main subject / occupational skills covered:**

- Clean, visualize, and summarize data using Pandas.
- Using Scikit-learn, develop Data Pipelines, construct Machine learning models for Regression, and evaluate models.

[ 01/09/2020 - Current ] **Data Scientist with Python**

*DataCamp.com* <https://www.datacamp.com>

**Field(s) of study:** Data Science

**Main subject / occupational skills covered:**

- Python libraries: Pandas, NumPy, Matplotlib, Seaborn etc.

## LANGUAGE SKILLS

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**Mother tongue(s):** Italian

**Other language(s):**

**English**

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

## DIGITAL SKILLS

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Microsoft Office: Word, Excel, Access, Power Point, Outlook. | MATLAB&Simulink | C |  
Python | Latex Software | SQL/MYSQL | QGIS