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GIANDOMENICO MASTRANTONI

ENGINEERING GEOLOGIST

EXPERIENCES

- 2020 November 1st – Present

Doctoral researcher (Ph.D.) at Sapienza University of Rome with a project on geological multihazard assessment in urban areas.

- 2020 March 1st – 2020 October 23rd

Geologist at NHAZCA S.r.l., spin-off Sapienza University of Rome.

- 2019 June 3rd – 2019 August 23rd

GeoEngineering & Geoscience Research Accelerator Program (**GeoRA**) at the Vancouver offices of BGC Engineering Inc.

DEGREE & EDUCATION

- February 2019 – December 2019

Excellence Program in Engineering Geology at "Sapienza" University of Rome, Italy.

- September 2017 – December 2019

Master's Degree in Engineering Geology

Sapienza University of Rome, Italy

Graduation Grade: **110/110 cum Laude**

Master Thesis:

"Semi-automated geostructural characterization of the Poggio Baldi landslide combining 3D and 2D high resolution remote sensing data".

Tutor: Prof. Paolo Mazzanti, Department of Earth Sciences, Sapienza University of Rome, Italy

- September 2014 – December 2017

Bachelor's Degree in Geological Sciences

Sapienza University Of Rome, Italy

Graduation Grade: **108/110**

Bachelor Thesis:

"Microstructural characterization of experimental calcite fault rocks depending on normal stress and strain rate".

Tutor: Prof. Collettini Cristiano, Department of Earth Sciences, Sapienza University of Rome, Italy.

PROFESSIONAL SKILLS

Excellent written, verbal and non-verbal communication, balanced and confident public speaking.

Interpersonal skills: conflict resolution, team building, team management, relationship building.

Organizational skills, such as attention to details, project management, meeting deadlines, punctuality.

Goal setting, decision making and information gathering.

Flexibility, analysis and problem solving.

Geological Skills

Ground-Based SAR Interferometry, Terrestrial Laser Scanning, UAV and Terrestrial photogrammetry, point clouds analysis, structural geology, slope stability, rock mechanics.

Computer Skills

Geographic Information Systems (ArcGIS, QGIS), Python 3.8, Agisoft Metashape Pro, Cloud Compare, Global Mapper, RiSCAN

PRO, Rocscience Dips, Discontinuty Set Extractor (DSE), Fracture Pattern Quantification (FracPaQ), Office 365.

<u>Operating Systems</u>: Macintosh, Windows, Linux.

<u>Graphics</u>: Adobe Illustrator, CyberLink PhotoDirector

Languages

Italian, **English** (fluent)

PUBBLICATIONS

- 2020 July 27th

"Remote monitoring of natural slopes: insights from the first Terrestrial InSAR campaign in Vietnam"

Saverio Romeo, Tran Quoc Cuong, Giandomenico Mastrantoni, Do Minh Duc, Dao Minh Duc, Nguyen Huy Thang, Nguyen Duc Anh & Paolo Mazzanti.

Italian Journal of Engineering Geology and Environment

TRAINING COURSES

- May 2020 – Present

DataCamp Course "Data scientist with Python"

- April 2020

Udemy Course "Python 3.8 complete guide: from beginner to expert"

- 2019 May 27th – 31st

International Course on Geotechnical and Structural Monitoring (IcGSM), Rome (Sixth Edition).

REFERENCES

Mazzanti Paolo

Associate Professor of Remote Sensing, Department of Earth Sciences, SAPIENZA University of Rome, Italy.

Esposito Carlo

Associate Professor of geological hazards, Department of Earth Sciences, SAPIENZA University of Rome, Italy

Collettini Cristiano

Associate Professor of Structural Geology, Department of Earth Sciences, SAPIENZA University of Rome, Italy.