EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

CURRICULUM VITAE PER LA PUBBLICAZIONE SUL WEB

Name

Address

Telephone

Fax

E-mail

Nationality

Date of birth

Italian

02/02/1994

WORK EXPERIENCE

• Dates (from – to)

· Name and address of employer

· Type of sector

Position held

• Main activities and responsibilities

• Dates (from - to)

· Name and address of employer

Type of sector

• Position held

· Main activities and responsibilities

June 2022 - July 2023

GUGLIELMO GRECHI

University of Utah, Department of Geology and Geophysics 115 S 1460 E, Salt Lake City, Utah 84112, United States of America

University and research

Postdoctoral research scholar

Structural health monitoring of natural rock arches through ambient seismic noise monitoring and 3D numerical modal analysis

November 2018 - present

Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy

Doctoral School "Vito Volterra" - PhD in Earth Sciences

Research assistant – external research assistant

- Integrated geotechnical and geophysical monitoring techniques applied to slope stability
- 3D eigenfrequency numerical modeling for dynamic characterization of freestanding natural rock structures
- Digital photogrammetry and infrared thermography for the reconstruction and characterization of 3D models of rock mass outcrops

Aprile 2017 - Giugno 2017

ACEA ELABORI SPA – Acea Engineering Laboratories Research Innovation 165, Via Vitorchiano, 00189, Rome, Italy

Engineering

Trainee

Processing and analysis of geological data derived from in situ geotechnical and geophysical tests acquired during the preliminary design stage of a hydroelectric plant.

• Dates (from - to)

Nome and address of emplyer

Type of sector

Position held

Main activities and responsibilities

Page 1 - Curriculum vitae Guglielmo Grechi

EDUCATION AND TRAINING

- Dates (from to)
- · Title of qualification awarded
- Name and type of organization providing education
- Principal subjects/occupational skills covered
- Official length of the programme
 - · Date of graduation
 - · Final grade
 - · Level in national classification
 - · Title of the thesis
 - Supervisor
 - Dates (from to)
 - · Title of qualification awarded
- Name and type of organization providing education
- Principal subjects/occupational skills covered
- · Official length of the programme
 - · Date of graduation
 - Final grade
 - · Level in national classification
 - · Title of the thesis
 - Supervisors
 - Dates (from to)
 - Title of qualification awarded
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Official length of the programme
 - Date of graduation
 - Final grade
 - · Level in national classification
 - · Title of the thesis
 - Supervisors

October 2018 - March 2022

Ph.D. in Engineering Geology (GEO/05)

Sapienza University of Rome, Department of Earth Sciences

Faculty of Mathematical, Physical and Natural Sciences

P.le Aldo Moro 5, 00185, Rome, Italy

Engineering geology, applied geophysics, passive seismic monitoring, remote sensing, slope stability, numerical modeling

3 academic years

24/03/2022

Excellent

Doctoral degree

Nonlinear strain effects induced by thermal forcings in jointed rock masses

Prof. Salvatore Martino

October 2015 - December 2017

MSc in Engineering Geology, Land Use Management and Georisks

Sapienza University of Rome, Department of Earth Sciences

Faculty of Mathematical, Physical and Natural Sciences

P.le Aldo Moro 5, 00185, Rome, Italy

Engineering geology, applied geophysics, geomorphological survey and GIS applications, slope stability, soil and rock mechanics, applied hydrogeology, volcanology, geotechnical engineering, applied geochemistry

2 academic years

21/12/2017

110/110 with honors

Master degree - Second Cycle

Analysis of the thermomechanical behaviour of an unstable quarry wall affected by rockfalls through multiparametric monitoring and numerical modeling

Prof. Salvatore Martino, Dott. Gian Marco Marmoni, Dott. Matteo Fiorucci

October 2012 - December 2015

BSc in Earth Sciences

Sapienza University of Rome, Department of Earth Sciences

Faculty of Mathematical, Physical and Natural Sciences

P.le Aldo Moro 5, 00185, Rome, Italy

Physics, paleontology, petrography, geochemistry geomorphology, geophysics, geological mapping, applied geology, hydrogeology, volcanology

3 academic years

17/12/2015

106/110

Bachelor degree - First Cycle

Geomechanical survey of an unstable area in the north-weastern sector of Mount Epomeo (Ischia)

Prof. Salvatore Martino, Dott. Gian Marco Marmoni

AWARDS AND HONORS

16/04/2018

DateAward

Certificate of "Sapienza Excellent Graduate Student" awarded by Fondazione Sapienza and Associazione NoiSapienza Alumni

PERSONAL SKILLS AND COMPETENCES

MOTHERTONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

Reading skills

Proficient user (C1)

Writing skills

Independent user (C1)

Verbal skills

Proficient user (C1)

SOCIAL SKILLS AND COMPETENCES

Good communicational and relational skills gained throughout the experience in a dynamic environment such as a University Department.

COMPUTER SKILLS

P – Proficient user

A – Advanced user

B - Basic user

Operating Systems: Microsoft Windows (P), Linux (B), MacOS (P)

Productivity Applications: *Microsoft Office Suite – Word, Excel, PowerPoint, Outlook, Access, OneNote* (P), *ADOBE Suite (P)*

Geographic Information System (GIS): ESRI ArcGis (A), Quantum GIS (A)

Programming Languages: Matlab (P), Python (A), Bash (B)

Numerical Modeling: ITASCA Flac 7.0 - Flac 8.0 (A), COMSOL MULTIPHYSICS (P)

Data Processing and Analysis: TESTO IRsoft (P), FLIR Tools+ (P), FLIR Research IR (A), Geopsy (A), AGISOFT Metashape (P), CloudCompare (P)

Graphic Design: ADOBE Illustrator (P), ADOBE Photoshop (B), AUTODESK AutoCAD (A)

DRIVING LICENCE(S)

Italian Category B (cars) APR (cat. A1–A3)

PUBLICATIONS

Grechi, G., & Martino, S. (**2019**). Preliminary results from multitemporal infrared thermography surveys at the Wied II-Mielah rock arch (island of Gozo). Italian Journal of Engineering Geology and Environment, 1(1), 41–46. https://doi.org/10.4408/IJEGE.2019-01.S-07.

Marmoni, G. M., Fiorucci, M., **Grechi, G.**, & Martino, S. (**2020**). Modelling of thermo-mechanical effects in a rock quarry wall induced by near-surface temperature fluctuations. International Journal of Rock Mechanics and Mining Sciences, 134(March), 104440. https://doi.org/10.1016/j.ijrmms.2020.104440.

D'Angiò, D., Fantini, A., Fiorucci, M., **Grechi, G.**, Iannucci, R., Marmoni, G. M., Martino, S., & Lenti, L. (**2020**). Multisensor monitoring for detecting rock wall instabilities from precursors to failures: The Acuto test-site (central Italy). ISRM International Symposium - EUROCK 2020.

Grechi, G., & Martino, S. (**2021**). Multimethodological Study of Non-linear Strain Effects Induced by Thermal Stresses on Jointed Rock Masses. In Understanding and reducing landslide disaster risk. Catastrophic landslides and frontiers of landslide Science (pp. 315–321). https://doi.org/10.1007/978-3-030-60319-9_35.

Grechi, G., Fiorucci, M., Marmoni, G. M., & Martino, S. (**2021**). 3D Thermal Monitoring of Jointed Rock Masses through Infrared Thermography and Photogrammetry. Remote Sensing, 13(5). https://doi.org/10.3390/rs13050957.

Grechi, G., D'Angiò, D., Fiorucci, M., Iannucci, R., Lenti, L., Marmoni, G. M., and Martino, S. (**2021**). Integrated geophysical and geotechnical monitoring for multiscale rock mass damaging investigation at the Acuto Field-Lab (Italy), EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-9403, https://doi.org/10.5194/egusphere-egu21-9403, 2021.

Grechi, G., D'Angiò, D., Martino, S., Lenti, L. (**2021**). Thermomechanical effects in jointed rock masses inferred through microseismic signals analysis. VII AIGA National Congress, Lecco 2021.

Grechi, G., Fernandes, J. R., Hu, J.-P., Le Gallais, A.-C., Sampieri, H., Amato, G., D'Angiò, D., Fiorucci, M., Iannucci, R., Marmoni, G. M., & Martino, S. (**2022**). Explorative data analysis from multiparametric monitoring at the Acuto Field Laboratory (Central Italy) for detecting preparatory conditions to rock block instabilities. Italian Journal of Engineering Geology and Environment, (2), 59–77. https://doi.org/10.4408/IJEGE.2022-02.0-05

Grechi, G. (2022). Nonlinear strain effects induced by thermal forcing on jointed rock masses - PhD Thesis, Sapienza University of Rome, https://hdl.handle.net/11573/1623181

Grechi, G., D'Angiò D., &vMartino S. (**2023**). Analysis of Thermally Induced Strain Effects on a Jointed Rock Mass through Microseismic Monitoring at the Acuto Field Laboratory (Italy). Applied Sciences 13, no. 4: 2489. https://doi.org/10.3390/app13042489

Il sottoscritto, consapevole che le dichiarazioni mendaci comportano l'applicazione delle sanzioni penali secondo quanto previsto dall'art.76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel presente curriculum vitae, redatto in formato europeo, corrispondono a verità (D.Igs. 33/2013 art. 10, 14, 15, 15bis, 27).

Il sottoscritto autorizza al trattamento dei dati personali secondo quanto previsto dal D. Lgs. 196/03

Updated on 01/11/2023