EUROPEAN CURRICULUM VITAE FORMAT

PERSONAL INFORMATION

Name	**GUGLIELMO GRECHI**
Address	
Telephone	
Fax	
E-mail	
Nationality	Italian
Date of birth	

WORK EXPERIENCE

• Dates (from – to)	**Januray 2024 – January 2026**
• Name and address of employer	Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy
• Type of sector	University and research
• Position held	Postdoctoral research scholar
• Main activities and responsibilities	Multiphysics and numerical modelling approaches for slope stability analyses in archeological sites
• Dates (from – to)	**June 2022 – July 2023**
• Name and address of employer	University of Utah, Department of Geology and Geophysics 115 S 1460 E, Salt Lake City, Utah 84112, United States of America
• Type of sector	University and research
• Position held	Postdoctoral research scholar
• Main activities and responsibilities	Structural health monitoring of natural rock arches through ambient seismic noise monitoring and 3D numerical modal analysis
• Dates (from – to)	**November 2018 – March 2022**
• Name and address of employer	Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy
• Type of sector	Doctoral School “Vito Volterra” – PhD in Earth Sciences
• Position held	Research assistant – external research assistant
• Main activities and responsibilities	• 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

• Dates (from – to)	**Aprile 2017 – Giugno 2017**
• Nome and address of emplyer	ACEA ELABORI SPA – Acea Engineering Laboratories Research Innovation 165, Via Vitorchiano, 00189, Rome, Italy
• Type of sector	Engineering
• Position held	Trainee
• Main activities and responsibilities	Processing and analysis of geological data derived from in situ geotechnical and geophysical tests acquired during the preliminary design stage of a hydroelectric plant.

EDUCATION AND TRAINING

• Dates (from – to)	**October 2018– March 2022**
• Title of qualification awarded	**Ph.D. in Engineering Geology (GEO/05)**
• Name and type of organization providing education	Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy
• Principal subjects/occupational skills covered	Engineering geology, applied geophysics, passive seismic monitoring, remote sensing, slope stability, numerical modeling
• Official length of the programme	3 academic years
• Date of graduation	24/03/2022
• Final grade	Excellent
• Level in national classification	Doctoral degree
• Title of the thesis	*Nonlinear strain effects induced by thermal forcings in jointed rock masses*
• Supervisor	Prof. Salvatore Martino

• Dates (from – to)	**October 2015 – December 2017**
• Title of qualification awarded	**MSc in Engineering Geology, Land Use Management and Georisks**
• Name and type of organization providing education	Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy
• Principal subjects/occupational skills covered	Engineering geology, applied geophysics, geomorphological survey and GIS applications, slope stability, soil and rock mechanics, applied hydrogeology, volcanology, geotechnical engineering, applied geochemistry
• Official length of the programme	2 academic years
• Date of graduation	21/12/2017
• Final grade	110/110 with honors
• Level in national classification	Master degree – Second Cycle
• Title of the thesis	*Analysis of the thermomechanical behaviour of an unstable quarry wall affected by rockfalls through multiparametric monitoring and numerical modeling*
• Supervisors	Prof. Salvatore Martino, Dott. Gian Marco Marmoni, Dott. Matteo Fiorucci

• Dates (from – to)	**October 2012 – December 2015**
• Title of qualification awarded	**BSc in Earth Sciences**
• Name and type of organization providing education and training	Sapienza University of Rome, Department of Earth Sciences Faculty of Mathematical, Physical and Natural Sciences P.le Aldo Moro 5, 00185, Rome, Italy
• Principal subjects/occupational skills covered	Physics, paleontology, petrography, geochemistry geomorphology, geophysics, geological mapping, applied geology, hydrogeology, volcanology
• Official length of the programme	3 academic years
• Date of graduation	17/12/2015
• Final grade	106/110
• Level in national classification	Bachelor degree – First Cycle

• Title of the thesis	*Geomechanical survey of an unstable area in the north-weastern sector of Mount Epomeo (Ischia)*
• Supervisors	Prof. Salvatore Martino, Dott. Gian Marco Marmoni

AWARDS AND HONORS

• Date	19/06/2025
• Award	ISRM best paper award at EUROCK2025 Conference, Trondheim (Norway), 16–20 June 2025: Feliziani, F., Marmoni, G.M., Grechi, G., Montagnese, M., Sohbani, R., Istrati, D., Martino, S. (2025) Measuring and modelling the sea-waves impact on a cliff: first results from the Ventotene Field Laboratory (Italy). Proceedings to ISRM International Symposium Eurock 2025 – Expanding the Underground Space, Trondheim, Norway, 16–20 June 2025.
• Date	16/04/2018
• Award	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	Operating Systems: *Microsoft Windows* (P)*, Linux* (B)*, MacOS* (P)
P – Proficient user A – Advanced user B – Basic user	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)
	Graphic Design: *ADOBE Illustrator* (P)*, ADOBE Photoshop* (P)*, 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 Il-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.

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., 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.O-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.

Grechi, G., Moore, J. R., Jensen, E. K., McCreary, M. E., Czech,T. L., and Festin, M. M. (**2024**). Modal Analysis of a Lava Tube Roof Complex: Tabernacle Hill, Utah, USA, Rock Mech. Rock Eng., 57, 1–10, https://doi.org/10.1007/s00603-024-03868-9.

Qian, Y., Fiorucci, M., Marmoni, G.M., Li, Q., Hussain, Y., **Grechi, G.**, Martino, S. (**2024**). Impact of environmental stressors on jointed rock cliffs by acoustic emission sensing: preliminary findings from the Acuto Field Laboratory (Central Italy). Rock Mechanics and Rock Engineering, 58: 1649–1568. https://doi.org/10.1007/s00603-024-04250-5.

Feliziani F., Marmoni, G.M., Gianni, V., Ferrandes, A., Pegurri, A., **Grechi, G.**, Felli, G., Ciampi, P., Bozzano, F., Delpino, C., Arrighi, C., Martino, S. (**2024**). Engineering-geological modelling as a tool for archaeological site preservation strategies. Italian Journal of Engineering Geology and Environment, Special Issue 1, 2024, 115–126. https://doi.org/10.4408/IJEGE.2024-01.S-13.

Conati Barbaro, C., Fiorucci, M., **Grechi, G.**, Forti, L., Marmoni, G.M., Martino, S. (**2024**). Safeguarding archaeological excavations and preserving cultural heritage in cave environments through engineering geological and geophysical approaches. Journal of Archaeological Science: Reports, 60–104868. https://doi.org/10.1016/j.jasrep.2024.104868.

Moore, J.R., Jensen, E.K., Quirk, B.J., **Grechi, G.**, Dzubay, A. (**2024**). Insolation cycles control the timing and pattern of resonance Frequency Drifts at a Natural Rock Tower, Utah, USA. Seismica. https://doi.org/10.26443/seismica.v3i2.1375.

Galone, L., Feliziani, F., Colica, E., Fucks, E, Galindo-Zaldivar, J., Gauci, R., Gauci, C., **Grechi, G.**, Martino, S., Rivero, L., D'Amico, S. (**2024**). Evolution of coastal cliffs characterized by lateral spreading in the Maltese archipelago. Remote Sensing, 16, 3072. https://doi.org/10.3390/rs16163072.

Grechi, G., Moore, J.R., McCreary, M.E., Jensen, E.K., Martino, S. (**2025**). Identifying fracture-controlled resonance modes for structural health monitoring: insights from Hunter Canyon Arch (Utah, USA). Earth Surface Dynamics, 13, 81–95. https://doi.org/10.5194/esurf-13-81-2025.

Cerra, D., Gege, P., Plattner, S., Feliziani, F., **Grechi, G.**, Marmoni, G.M., Bozzano, F., Martino, S. (**2025**). Remote sensing-supported monitoring of natural and anthropogenic hazards to cultural heritage in Ventotene and S. Stefano islands, Italy. Italian Journal of Engineering Geology and Environment. Special Issue 1, 2025, 65–81. https://doi.org/10.4408/IJEGE.2025-01.S-05.

Pegurri, A., Feliziani, F., **Grechi, G.**, Marmoni, G.M., Martino, S., Arrighi, C., Delpino, C., Ferrandes, A. (**2025**). The Imperial Villa of Punta Eolo (Ventotene) between archaeological evidence and geological assets in a conservation perspective. Italian Journal of Engineering Geology and Environment. Special Issue 1, 2025, 83–93. https://doi.org/10.4408/IJEGE.2025-01.S-06.

Sokolicek, A., Grechi, G., Tanner, A., Berger, L., Rivellino, S., Montagnese, M., Marmoni, G.M., Hussain, Y., Martino, S. (**2025**). Engineering-geological and geophysical surveys for archaeological risk assessment in view of mitigation measures at Aegina Kolonna, Greece. Italian Journal of Engineering Geology and Environment. Special Issue 1, 2025, 107–122. https://doi.org/10.4408/IJEGE.2025-01.S-08.

Colica, E., Galone, L., Gallo, I.G., Robustelli, G., D'Amico, S., Piroddi, L., Martino, S., **Grechi, G.** (**2025**). Rockfall hazard assessment using UAV photogrammetry and 3D modelling at Selmun Cliff in Malta. Discover Geoscience, 3, 240. https://doi.org/10.1007/s44288-025-00349-6.

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.

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

Upadated on 17/12/2025