



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **CELESTINO GRIFA**
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Nationality Italian
Date of birth
Gender M

Occupational field

**ASSOCIATE PROFESSOR FOR SSD GEO/07 - PETROLOGY AND
PETROGRAPHY AT THE DEPARTMENT OF SCIENCE AND TECHNOLOGY AT
THE UNIVERSITY OF SANNIO IN BENEVENTO.**

Work experience

Dates	01.05.2021 - today
Occupation or position held	Associate Professor in Petrography and Petrology
Main activities and responsibilities	Research, Teaching.
Name and address of employer	University of Sannio in Benevento
Type of business or sector	Higher Education
Dates	01.04.2006 – 30.04.2021
Occupation or position held	Assistant Professor in Petrography and Petrology
Main activities and responsibilities	Research, Teaching.
Name and address of employer	University of Sannio in Benevento
Type of business or sector	Higher Education

Education and training

Dates	01.04.2004
Title of qualification awarded	PhD in Petrography and Petrology
Principal subjects	Traditional and archaeological ceramic materials
Name and type of organisation providing education and training	Federico II – Catania Universities Consortium
Dates	05.2022
Title of qualification awarded	Master Degree in Geology cum laude
Principal subjects	Mineralogy and Petrography
Name and type of organisation providing education and training	University of Sannio in Benevento
Dates	05.1995

Title of qualification awarded | Diploma of Commercial accountant and Computer Programmer
 Principal subjects | Economy, Computer Science
 Name and type of organisation providing education and training | "Luigi Amabile" School of Economy (Avellino).

Personal skills and competences

Mother tongue(s) | **Italian**

Other language(s) | **English**

Self-assessment

European level ()*

Language

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

(*) *Common European Framework of Reference for Languages*

Scientific skills and competences

Prof. Celestino Grifa mainly works in the field of characterisation and safeguard of Cultural Heritage with the following main research points:

Traditional and archaeological ceramic materials.

The study of archaeological and traditional ceramic materials is Prof. Grifa's main research activity. Thanks to the collaboration with several major Institutions in the Campania region, as well as National and International Institutions, he has the opportunity to share research and in multidisciplinary projects concerning the characterisation of ceramic materials from the most important archaeological sites in Campania. The study of ancient ceramic materials is also supported by the study of clay raw materials and their mineralogical and petrological characterisation also in order to experiment new recipes to support the production of traditional ceramics.

Prof. Grifa has carried out research on traditional ceramic materials from Madagascar, which is intimately linked to important environmental issues for developing countries, such as soil conservation, CO₂ emissions and deforestation.

Characterization of building materials in historical buildings and their conservation

This line of research deals with issues related to the petrological and mineralogical characterisation of ornamental stone and other artificial geomaterials used in historic buildings for the purpose of precise diagnostic investigation. These studies also include the evaluation of the state of conservation of the materials of the historic building through quantitative methodologies. Among the artificial building materials, in addition to ceramic materials, mortars have been the subject of research from various points of view, starting from the petrographic and mineralogical approach of the ancient multilayer technologies of mortar-based materials used by the ancients, to the study of C isotopes for the purpose of dating structures. Thanks to well-established international collaborations, Prof. Grifa has been able to investigate the different technologies of mortar-based materials from ancient China.

Pigments, metal alloys and gems.

The study of ancient pigments began with the analysis of some crucibles and their contents from ancient Cumae, used for the production of Egyptian Blue according to the technology reported by Vitruvius. Later, participation in the Great Pompeii Project gave the opportunity to approach the study of other natural materials used in ancient buildings, such as pigments used in wall paintings. This study was approached through the use of non-destructive and non-invasive analytical techniques (XRF, ER-FTIR and Raman), which are increasingly in vogue in the study of cultural heritage. The same analytical approach has been implemented in the PAESTUM INSIDE project, conducted together with the AIAr (Italian Association of Archaeometry) and several other Italian Research Centres. Finally, spectroscopic techniques have been used on the relief-decorated rock surfaces of the Yazilikaya sanctuary at Hattusa, the ancient capital of the Hittites, thanks to the collaboration with the Deutsches Archäologisches Institut and the Suor Orsola Benincasa University. Recently, the non-invasive spectroscopic approach has been used for the characterisation of metal alloys (bronzes) and gems.

The scientific records attest the acquired skills:

Prof. Grifa is the author of 95 scientific publications, including 67 in ISI journals,

The bibliometric indicators at 08/02/2022 are:

Scopus: H-Index = 20, total citations = 1068,

Google Scholar: H-index=21, total citations = 1340

Organisational skills and competences

Membership of scientific societies

Member of the Scientific Council of CRACS - Center of Research on Archaeometry and Conservation Science

Member of the Board of Directors of AIAr (Italian Association of Archaeometry) with the role of treasurer.

Member of the SGI (Italian Geological Society)

Organisation and participation in the Scientific Committee of National and International Congresses

2013 - Member of the Organising Committee of 'EMAC 2013 (European Meeting on ancient Ceramics). Padova, 19-21 September 2013.

2015 - Convenor of the session "P21 - The geosciences for Cultural Heritage and Archeometry: consolidated and innovative approaches" at the Congress "Il Pianeta Dinamico: sviluppi e prospettive a 100 anni da Wegener" SIMP-AIV-SoGel-SG Congress. Florence, 2-4 September 2015.

2015 - Technical Program Chair at the "1st International Conference on Metrology for Archaeology". Benevento, 22-23 October 2015

2016 - Convenor for the session "Cultural Heritage in marine and subaerial environment: knowledge, development, fruition and protection" 88th Congress of the Italian Geological Society - Geosciences on a changing planet: learning from the past, exploring the future. Naples, 7-9 September 2016

2016 - Member of the Scientific Committee at the "2nd International Conference on Metrology for Archaeology". Torino, 19-21 October 2016

2017 - Member of the Scientific Committee "3rd International Conference on Metrology for Archaeology". Lecce, 23-25 October 2016

2018 - Member of the Scientific Committee "10th AiAr (Italian Association of Archaeometry) national congress". Torino, 14-17 February 2018

2018 - Member of the Scientific Committee "YOCOUCU 2018 Conference". Matera, 23-25 May 2018

2019 - Member of the Scientific Committee "Convegno Tematico AiAr - Dalla Conoscenza alla Valorizzazione: il Ruolo dell'archeometria nei Musei" Reggio Calabria. March 27-29, 2019

2019 - Symposium Organiser at the 16th European Ceramic Society (ECERS) Conference - Symposium 9 Ceramics in Art and Cultural Heritage. Torino, 16- 20 June 2019.

2020 - Member of the Scientific Committee and Organizer of the "11th AIAr (Associazione Italiana di Archeometria) national congress". Napoli 4-6 March 2020.

Main scientific projects

Scientific Responsible for the project Bando Regione Campania for participation in the selection of Scientific Research projects eligible for funding according to L.R. N.5 del 28.03.2002Cod. 04-A00001703 "Clays from Campania as raw materials for ceramic productions of archaeological interest" Annuality 2008 from 01-01-2015 to 31-12-2015

Scientific Coordinator for the archaeometric analyses for the AAL - Ancient Appia Landscape project (University of Salerno).

Scientific Coordinator for the archaeometric analyses for the project "Possession-Trafugamenti e falsi di antichità a Paestum" in collaboration with Associazione Italiana di Archeometria (AIAr) and Parco archeologico e Museo di Paestum (Salerno, Italy)

Scientific Coordinator for mineralogical and petrographic analyses for the project "Paestum Inside - Non-invasive and non-destructive diagnostic investigations on frescoed tomb slabs" in collaboration with Associazione Italiana di Archeometria (AIAr) and Parco archeologico e Museo di Paestum (Salerno, Italy).

Participation in the pre-restoration diagnostics on Alexander's Mosaic within the framework of the scientific collaboration, sanctioned by the agreement between the National Archaeological Museum of Naples MANN and the Interuniversity Centre CRACS, Center for Research on Archaeometry and Conservation Science (University of Naples Federico II, University of Sannio Benevento) (n° prot. MANN 0008445-P of 02/12/2021, n° prot. CRACS PG/2021/0125297 of 02/12/2021)

Participation in the archaeometric analysis of the "Termopolium and the House of Orion" at the Archaeological Park of Pompeii within the framework of the scientific collaboration established by the agreement between the Archaeological Park of Pompeii (PAP) and the Interuniversity Centre CRACS,

Center for Research on Archaeometry and Conservation Science (University of Naples Federico II, University of Sannio Benevento).

Scientific Responsibility for the Great Pompeii Project (GPP) for the CHARACTERIZATION AND QUANTIFICATION OF CONSTRUCTION MATERIALS AND DEGRADE STATEMENT ACCORDING TO THE FITZNER AND HEINRICHS METHOD OF THE DOMUS OF Octavio Quartio (Regio II, Insula 2) - RTI: University of Salerno/DISPAC - Zollet Service S. C. Lot 2 / C.I.G.:5632012354 / C.U.P.: F69G13001560006 Regio II (9 insulae, ca. 69.000 mq) and extra moenia (total 97500 mq) from 15-08-2015 to 30-09-2015

Participation in international project (Spain) Ministerio de Economía y Competitividad MAT2016-75889-R (2017-2019) "Titulo: "Optimización en la producción de ladrillos mediante la adición de residuos industriales (WasteBrick) - Improvement in bricks production by the addition of industrial wastes" - Investigador Principal (Scientific Responsible) : CULTRONE GIUSEPPE (University of Granada, Spain) from 01-07-2016 to date

Technical skills and competences

Analytical skills

During his research activity and participation in other groups, Dr Grifa has acquired skills in acquiring and interpreting data from the most common petrographic and mineralogical techniques, such as

- Polarised Light Microscopic Optics (PLOM) and Digital Image Analyses (DIA),
- X-Ray Diffraction.
- Chemical analysis by X-Ray Fluorescence (XRF) and Inductively Coupled Plasma Mass (ICP-MS)
- Scanning Electron Microscopy (SEM) and microanalysis by Energy Dispersive X-Ray Spectrometry (EDS)
- Thermogravimetry (TG-DSC) and gas analysis (EGA),
- Mercury porosimetry
- Water testing
- Vibrational spectroscopy such as Fourier Transform Infrared spectrometry (FT-IR) and Raman

Participation in scientific fieldtrip and missions

September 2005 Madagascar - sampling of volcanic rocks in the central, western and central sector of the island (in collaboration with DISTAR of the University Federico II).

September 2011 Madagascar - sampling of volcanic rocks, clays and traditional ceramic materials in the central sector of the island (in collaboration with DISTAR of the Federico II University).

September 2014 Madagascar - sampling of volcanic rocks, clays and traditional ceramic materials in the central, southern sector of the island (in collaboration with DISTAR of the University Federico II).

September 2017 Madagascar - sampling of volcanic rocks, clays and traditional ceramic materials in the southern sector of the island (in collaboration with DISTAR of the University Federico II).

September 2018 Turkey - Diagnostic campaign on the rock surfaces with relief statues of the Yazilikaya sanctuary (Hattusa, Tuchia) (in collaboration with DISTAR and Suor Orsola Benincasa University).

September 2019 Madagascar - sampling of volcanic rocks, clays and traditional ceramic materials in the central sector of the island (in collaboration with DISTAR of the University Federico II).

September 2021 Turkey - Diagnostic campaign on rock surfaces with relief statues from the Yazilikaya sanctuary (Hattusa, Tuchia) (in collaboration with DISTAR and Suor Orsola Benincasa University).

International Collaborations

Visiting Researcher al Dipartimento di Mineralogia e Petrologia Granada University (Spain) in cooperation with prof. Giuseppe Cultrone and Eduardo Sebastian Pardo.

Visiting Researcher a UCLA (USA) in cooperation with prof. Ioanna Kakoulli.

Active cooperation with Shangai University (Cina) in cooperation con il prof. Xiao Ma

Active cooperation with Institute for Mediterranean and Oriental Cultures, Academy of Sciences, Warsaw in cooperation with Dr. Massimiliano Nuzzolo

Active cooperation with Aix Marseille Université CNRS, Centre Camille Jullian Maison méditerranéenne des sciences de l'Homme with dr. Laetitia Cavassa

Other skills and competences**Editorial Services.**

Guest Editor - Emac 2013 Special Issue - Periodical of Mineralogy - 2014

Guest Editor - Special Issue of AiAr Congress 2016 "A BRIDGE BETWEEN ART AND SCIENCE: PAST, PRESENT AND FUTURE PERSPECTIVES".

SCIENCE: PAST, PRESENT AND FUTURE PERSPECTIVES" - International Journal of Conservation Science

Conservation Science - 2016

Guest Editor - Special Issue of AiAr 2018 Congress - European Physic Journal -2017

Managing Editor - Special Issue of AiAr Congress 2021 - Journal of Archaeological Science: Reports

Reviewer of the most important journals in the field as well as national and international projects.

"According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV"

Date: __/__/2022

Signature
