



Nicodemo Abate

[REDACTED]	[REDACTED]	[REDACTED]

PRESENTATION

Medieval archaeologist, with experience in the acquisition and processing of active and passive drone and satellite remote sensing data for applications in archaeology, landscape archaeology, and the study and assessment of risk factors for archaeological and natural heritage, such as looting, fire, flooding, deforestation, and pollutants.

WORK EXPERIENCE

NATIONAL RESEARCH COUNCIL - INSTITUTE OF HERITAGE SCIENCE - Potenza, ITALY

TECHNOLOGIST - 01/12/2023 - CURRENT

Level III permanent technologist

UNIVERSITY OF MACERATA STUDIES - MACERATA, ITALY

UNIVERSITY LECTURER OF ARCHAEOLOGY/UNIVERSITY PROFESSOR OF ARCHAEOLOGY - 07/01/2025 - 10/12/2025

Lecturer for M18 - MANAGEMENT OF CULTURAL GOODS UD1 - LABORATORY OF TERRITORIAL INFORMATION SYSTEMS FOR CULTURAL GOODS MACERATA (S2) Resp. ABATE NICODEMO a.y. 2024-2025

UNIVERSITY OF STUDIES SUOR ORSOLA NAPLES - NAPLES, ITALY

UNIVERSITY LECTURER OF ARCHAEOLOGY/UNIVERSITY PROFESSOR OF ARCHAEOLOGY - 09/10/2024 - 28/02/2025

A.Y. 2024-2025: Lecturer in "Digital Cartography and Preventive Archaeology," for the course Digital Humanities. Cultural Heritage and Literary Subjects (Master's Degree).

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA NAPLES - NAPLES, ITALY

LECTURER OF ICT APPLIED TO CULTURAL HERITAGE FOR MASTER'S DEGREE II LEVEL APRI - 07/01/2024 - 07/11/2024

Non-institutional teaching activities carried out as part of the Master's program in Archaeology, profession, enterprise (APRI) Management and design of professional and entrepreneurial activities in archaeology.

NATIONAL RESEARCH COUNCIL - INSTITUTE OF HERITAGE SCIENCE - Potenza, ITALY

PROFESSIONALIZING RESEARCH GRANT AT CNR - ISPC - 15/11/2021 - 15/11/2023

Project SHINE. PROFESSIONAL ASSIGNMENT Selection Notice No. ISPC017-2021-PZ-Prot 0044943 dated 26/07/2021, with the theme: "Acquisition and processing of active and passive remote sensing data from drones for applications in the field of archaeology, development of new procedures for the fusion and integration of heterogeneous multi-scale remote sensing data acquired with active and passive sensors for applications in the field of archaeological landscape research." Work performed includes: study of historical cartography and aerial photography (historical and newly acquired); monitoring of natural and cultural heritage using LiDAR, satellite and ground-based data; use of drones equipped with LiDAR, Multispectral, Thermal, visible and radar sensors; use of GNSS; use of laser scanner and total station; use of GIS and image processing software; use of Artificial Intelligence for Big Data management.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA NAPLES - NAPLES, ITALY

LECTURER OF ICT APPLIED TO CULTURAL HERITAGE FOR MASTER'S DEGREE II LEVEL APRI - 07/01/2022 - 07/11/2022

Non-institutional teaching activities carried out within the framework of the Master in Archaeology, profession, enterprise (APRI) Management and design of professional and entrepreneurial activities in archaeology A.A. 20 21 /20 22

SUOR ORSOLA BENINCASA UNIVERSITY - NAPLES, ITALY

LECTURER OF ICT APPLIED TO CULTURAL HERITAGE FOR MASTER'S LEVEL II APRI - 01/03/2021 - 12/12/2021

Non-institutional teaching activities carried out within the framework of the Master in Archaeology, profession, enterprise (APRI) Management and design of professional and entrepreneurial activities in archaeology A.A. 20 20 /20 21

METRIA S.R.L. - CASERTA, ITALY

DRONE SURVEY FOR TOPOGRAPHY RESTITUTION - 16/03/2022 - 20/03/2022

Aerophotogrammetric survey from UAS and data processing, GNSS survey and coordinate correction on IGM grids, and creation in GIS environment of cartographic and topographic base for land management, at the municipality of Dugenta.

MONDO MOSTRE S.R.L. - ROME, ITALY

CREATION OF GRAPHIC CONTENT FOR EXHIBITIONS AND CATALOGS - 11/02/2021 - 11/02/2021

Creation of introductory panel and GIS mapping for catalog for the exhibition "The Painters of Pompeii"

NATIONAL RESEARCH COUNCIL - Potenza, ITALY

ASSOCIATION AT CNR - ISPC - 01/11/2018 - 01/11/2019

Three-year associate at the National Research Council-Institute of Methodologies for Environmental Analysis (CNR-IMAA) in Tito Scalo.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

SAPR PILOT AND 3D DETECTOR - 18/09/2018 - 20/09/2018

Survey by SAPR in the archaeological area of San Vincenzo al Volturno and return of orthophoto, 3D model, contour lines and DEM.

NAUS SRL - POZZUOLI

ARCHAEOLOGICAL SURVEILLANCE - 05/08/2018 - 10/08/2018

Archaeological surveillance in Marano di Napoli during ENEL excavation for the placement of underground utilities.

MUNICIPALITY OF MONTEFORTE IRPINO (AV) - MONTEFORTE IRPINO (AV)

SAPR PILOT AND 3D DETECTOR - 26/06/2018 - 03/07/2018

3D survey by SAPR with processing of three-dimensional model, sections, point cloud, isohypses, DEM and CAD files (with georeferenced orthophotos) of the medieval castle of Monteforte Irpino (AV).

UNIVERSITY OF SIENA - SIENA

CO.CO.CO. (PUBLIC NOTICE NO.3 OF 25/01/2018) - 14/02/2018 - 31/05/2018

Co.co.co. for the creation of a "Virtual Museum of Early Medieval Material Culture in Southern Italy." The activity, which falls within the scope of PRIN funds allocated for public archaeology, involves the selection of a sample of movable and immovable artifacts, relevant within the framework of the material culture of the Lombard age, with the aim of "virtualizing" them and inserting them within a specially created Web platform, with the function of "Virtual Museum."

Tools used:

- Web/webgis platform creation: Aruba hosting, Wordpress and plugins, MySql database, Qgis.
- 2D/3D graphics: Gimp, Inkscape, Python Photogrammetry toolbox, Meshlab, Blender, Sketchfab.

PARTENEAPOLIS - NAPLES

EXPERT PROJECT "SCHOOL ALIVE" - 08/05/2017 - 17/07/2017

"Suola Viva" expert at the Emilio Segré State Scientific High School for the "Creative Art" module. The module, named "Immersed in Art," included 30 hours of lectures and practical activities designed to study and reproduce, on different media, works of art from the Classical period.

UNIVERSITY OF NAPLES SUOR ORSOLA BENINCASA - NAPLES, ITALY

MANN, THREE-DIMENSIONAL SURVEY AND REALIZATION OF AN ONLINE FRUITIVE APPARATUS. -

14/05/2017 - 29/06/2017

The activity was carried out as part of the agreement between the MAN (National Archaeological Museum) museum in Naples and the Suor Orsola Benincasa University, that is, activities for the cataloging and study of metal artifacts, virtual prototyping of all the artifacts under study and the realization - through procedures and platforms agreed upon with the MAN management - of their online fruition, under the responsibility of the University's Interdepartmental Center for Design and Research "Scienza Nuova."

SUOR ORSOLA BENINCASA - NAPLES, ITALY

UNIVERSITY LECTURER AND IN HIGHER EDUCATION INSTITUTIONS - 13/03/2017 - 10/05/2017

Lecturer for the a.y. 2016/2017 for the course "Applied Informatics in Archaeology" of the three-year CdS in Cultural Heritage Sciences at the University of Naples Suor Orsola Benincasa.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

MUSEUM / EDUCATIONAL PANEL LAYOUT AND SMARTPHONE APP CREATION - 14/07/2016 - 29/09/2016

Activities carried out within the framework of the agreement between the Ministry of Cultural Heritage and Activities and Tourism for Molise for the archaeological site of San Vincenzo al Volturno and L'Università Suor Orsola Benincasa for activities of : composition of the layout of the panels for museum layouts, QR code and app. development and drafting final report, under the responsibility of the Interdepartmental Center for Design and Research "Scienza Nuova" of the University Suor Orsola Benincasa.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

EXCAVATION SUPERVISION, SHEET AND DOCUMENTATION WRITING AND 3D SURVEY - 26/06/2016 - 30/07/2016

Activities carried out within the framework of the Agreement between the Diocese of Sessa Aurunca and Suor Orsola Benincasa University i.e. activities of: supervision of the excavation, drafting of the excavation cards and photographic documentation, drafting of the final report, production of the reconstructive model and 3D survey of the ecclesiastical building under the responsibility of the Interdepartmental Center for Design and Research "Scienza Nuova" of Suor Orsola Benincasa University.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

ARCHAEOLOGIST - 08/21/2016 - 09/15/2016

Archaeologist and field coordinator at the archaeological site of San Vincenzo al Volturno, in the municipality of Castel San Vincenzo (IS).

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

3D DETECTORIST - 06/03/2016 - 07/03/2016

Activities of 3D photogrammetric survey, post-processing and partial virtual restoration of the crypt of San Marco dei Sabariani (BN).

The survey was carried out using a camera to capture the photos and Agisoft Photoscan software to process the three-dimensional models, which were then anchored to GPS points.

Thanks to photos taken by amateurs and found on the web, it was possible to undertake a small virtual restoration of the frescoes that are no longer visible.

BASILIKA-BAUVEREIN E.V. SELIGENSTADT - SELIGENSTADT, GERMANY

3D DETECTOR - 25/08/2015 - 01/09/2015

3D photogrammetric survey and spatial anchoring, with GPS positioning, of the crypt and apsidal area of the early medieval church (9th cent.) in Seligenstadt.

UNIVERSITY OF NAPLES SUOR ORSOLA BENINCASA - NAPLES, ITALY

ARCHAEOLOGIST - 09/08/2015 - 28/08/2015

Site manager at the educational site carried out by the Università Suor Orsola Benincasa at the archaeological site of San Vincenzo al Volturno (IS) and in charge of 3D photogrammetric survey operations using APR (drone), GPS and total station means.

CIVITANOVESI NEL MONDO - CIVITANOVA DEL SANNIO, ITALY

ARCHAEOLOGIST - 06/21/2015 - 07/16/2015

Assay Manager during archaeological excavation activities conducted at the site of "Santa Brigida" or "San Benedetto de lumento Albo," in Civitanova del Sannio (IS), Italy. Processing of three-dimensional (3D) models with SFM systems and finishing in meshlab / rhinoceros to create archaeological plans and sections anchored to the survey carried out by total station.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

ARCHAEOLOGIST/DETECTOR - 31/10/2014 - 04/11/2014

3D survey activities using photogrammetric technique and manual scanner "Eva" at the medieval complex of SS. Rufino and Vitale, Amandola (FM). The activity involved the three-dimensional survey and rendered restitution of the early medieval crypt, the Romanesque crypt and the modern church.

UNIVERSITY OF STUDIES SUOR ORSOLA BENINCASA - NAPLES, ITALY

ARCHAEOLOGIST - 08/31/2014 - 09/26/2014

Essay supervisor at the archaeological site of San Vincenzo al Volturno.

Responsible for graphic documentation, direct, instrumental and 3D survey of archaeological evidence.

GAL ALTO CASERTANO (PIEDIMONTE MATESE SECTION), UNIVERSITY OF NAPLES SUOR ORSOLA BENINCASA -
PIEDIMONTE MATESE, ITALY

SCIENTIFIC ADVISOR - 14/07/2014 - 22/12/2014

Scientific advice for the creation of tourist itineraries relevant to the route of the Via Francigena del Sud, within the project "La Via Francigena del Sud" A Sacred Itinerary in Campania under the P.S.L. Alto Casertano - Axis 4 - Measure 421 cooperation. "Cammini d'Europa" Interterritorial Cooperation Project. Identification and mapping of sites of interest for the Via Francigena and creation and integration of these routes within a WebGis platform (in .ktm format). For each site of interest, a sheet was prepared containing: Title (current and ancient), GPS coordinates, description, references within sources, photos, bibliographical references.

The work concluded with the creation of routes (walking and driving) that can be downloaded and consulted On-line.

CIVITANOVESI NEL MONDO ONLUS - CIVITANOVA DEL SANNIO, ITALY

ARCHAEOLOGIST - 06/07/2014 - 01/08/2014

Assay Manager during archaeological excavation activities conducted at the site of "Santa Brigida" or "San Benedetto de lumento Albo," in Civitanova del Sannio (IS), Italy. Processing of three-dimensional (3D) models with SFM systems and finishing in meshlab / rhinoceros to create archaeological plans and sections anchored to the survey carried out by total station.

MINISTRY OF CULTURAL HERITAGE AND TURISM, REGIONAL DIRECTORATE FOR CULTURAL HERITAGE -
ITALY

COOPERATING ARCHAEOLOGIST - 12/10/2014 - 30/10/2014

Responsible for drafting and supervising the US (Stratigraphic Unit) sheets and 3D survey in SFM, with CAD processing and anchoring, at the archaeological excavation in the AP area, of the Architectural and Archaeological Complex of San Vincenzo al Volturno, in the municipality of Castel San Vincenzo (IS).

● **EDUCATION AND TRAINING**

01/11/2018 - 18/07/2022 Matera, Italy

PH.D. WITH FELLOWSHIP AT UNIVERSITY OF BASILICATA STUDIES. University of the
Basilicata

Ph.D. with fellowship at the University of Basilicata (XXXIV cycle), DICEM department (Department of European and Mediterranean Cultures).

Topic "Toward an operational use of remote sensing data (satellite, drone, ground) for Cultural Heritage: from discovery to documentation, monitoring and enhancement."

Thesis Towards an operational use of remote sensing data (satellite, drone, and ground) for Cultural Heritage: from discovery to documentation, monitoring, and valorisation

18/04/2021 - 23/04/2021 Campi Bisenzio, Italy

TRAINING COURSE - ACQUISITION AND PROCESSING OF LIDAR DATA FROM DRONE (40 HOURS) MicroGeo

Address Via Petrarca, 42 Campi Bisenzio (Florence) - Italy, 50013, Campi Bisenzio, Italy

15/06/2021 - 17/06/2021 Campiglia Marittima (LI), Italy

TRAINING COURSE "PROGRAMMING GIS WITH PYTHON. CREATING SCRIPTS AND PLUGINS WITH QGIS"
TerreLogiche

Address Via Giuseppe Verdi, 3, loc. Venturina Terme, 57021, Campiglia Marittima (LI), Italy

18/02/2016 - 16/04/2018 Naples, Italy

DIPLOMA OF SCHOOL OF SPECIALIZATION IN ARCHAEOLOGICAL GOODS Suor Orsola Benincasa
University/University of Campania Luigi Vanvitelli

Graduate School of Specialization in Archaeological Heritage in "History of Late Antique and Medieval Settlements" with Prof. Federico Marazzi (University of Suor Orsola Benincasa) and co-report by Prof. Pacifico Cofrancesco (University of Pavia), entitled: Toward the Creation of a Virtual Museum of Material Culture of the Longobard Age in Southern Italy. Rated 70/70 cum laude.

27/07/2012 - CURRENT Naples, Italy

PARTICIPATION IN ARCHAEOLOGICAL STUDY AND RESEARCH ACTIVITIES CARRIED OUT BY THE LATEM (LABORATORY OF LATE-ANTIQUE AND MEDIEVAL ARCHAEOLOGY) Suor Orsola Benincasa University.

Voluntary participation, still in progress, in the study and research activities carried out by LATEM (Laboratory of Late Antique and Medieval Archaeology) under the scientific direction of Prof. F. Marazzi. The tasks performed at the laboratory are manifold and embrace archaeology in toto (archaeological excavation; archaeological reconnaissance; compilation, revision, processing and computerization of data produced during excavation activities; study of archaeological contexts for future publications; direct and instrumental survey; 3D survey; GIS software). In addition, one collaborates in cataloging and computerization - with the creation of a reference database - of the texts of the Federico Marazzi Library Fund, present within the LATEM offices.

08/10/2017 - 12/10/2017 Bologna

13TH ADVANCED SCHOOL ON COMPUTER GRAPHICS FOR CULTURAL HERITAGE CINECA

13th Advanced School of Computer Graphics For Cultural Heritage.

During the lectures offered by CINECA in Bologna we focused on 3D modeling with BLENDER software touching on the different aspects of the operational chain: shading, rendering, material and real-time shading, BLENDER VR, BLEND4WEB, animation, digital photogrammetry, virtual museology and big data, machine learning/deep learning.

18/01/2015 - 14/01/2016 Rome, Italy

INTERNATIONAL MASTER'S DEGREE II IN: MASTER'S DEGREE IN METHODS, MATERIALS AND TECHNOLOGIES FOR GOODS

CULTURAL University of Rome 3 - Department of Science

International Master's Degree in Methods, Materials and Technologies for Cultural Heritage.

The International Master's Degree in Methods, Materials and Technologies for Cultural Heritage, promoted by the University of Rome 3 (Department of Science), in collaboration with the Scientific Cabinet of the Vatican Museums (SCV).

Courses:

- Electronic Systems for Cultural Heritage.
- Sensing and Complex Data Analysis for Cultural Heritage.
- Physics of surfaces
- Surface chemistry
- Laser Applications for Cultural Heritage
- Cultural Heritage Materials.
- Methods and Systems for the Diagnosis, Restoration, and Use of Cultural Heritage.
- Marketing for the productive development of Cultural Heritage.
- ICT applied to Cultural Heritage
- Regulations for Cultural Heritage and the Environment
- Interaction Environment - Cultural Good
- Electronic Instrumentation for Cultural Heritage.
- Advanced Methods of Investigation Applied to Stone Materials, Mortars and Ceramics of Cultural Heritage

Interest Seminars, internships and training placements at affiliated facilities.

Field of study Physical sciences

31/08/2014 - 02/10/2014 Italy

ESSAY SUPERVISOR AT THE ARCHAEOLOGICAL SITE OF SAN VINCENZO AL VOLTURNO (IS) DURING EXCAVATION ACTIVITIES ON THE CD. COLLE DELLA TORRE LATEM (Laboratory of Archaeology Late Antique and Medieval)

Assay manager at the archaeological site of San Vincenzo al Volturno (IS) during excavation activities on the so-called. Tower Hill, assay CT 2.

Responsible for graphic documentation and creation and management of 3D models of the entire excavated area using software (SFM).

Management of 3D models for creating plans and sections of the excavation area.

The excavation took place from 1/9/2014 to 3/10/2014 for a total of 240 working hours.

12/15/2011 - 05/25/2014 Naples, Italy

MASTER'S DEGREE IN "SCIENCES OF THE ANTIQUITY AND THE MIDDLE AGES" University of Suor Orsola Benincasa

Master's degree in Sciences of Antiquity and the Middle Ages, from the University Institute of Naples, Suor Orsola Benincasa. The final paper in archaeometallurgy, titled "San Vincenzo al Volturno: metal finds from the excavations of the Volturno riverbed (years 2007-2008)," was done with the chair of "History of Christian Civilization in the Middle Ages," held by Prof. Federico Marazzi, and involved Dr. Vasco La Salvia (University of Chieti) as co-rapporteur. It was obtained with a grade of 110/110 cum laude.

The cursus studiorum included the following examinations:

Late antique and medieval antiquity, 5/23/2012, grade 28/30;

Research Strategies in Archaeological Contexts, 5/24/2012, grade 30/30 cum laude;

Greek Antiquities, 6/18/2012, grade 30/30 cum laude;

Artistic Production in the Classical World, 10/07/2012, grade 30/30 cum laude;

Cultures of the Preclassical Mediterranean, 15/02/2013, grade 28/30;

Sculptural Production and Artistic Commissioning in the Classical World, 5/28/2013, grade 30/30 cum laude;

Languages, Cultures and History of Ancient Anterior Asia, 7/23/2013, grade 30/30;

Museology ethno-archaeology of the Mediterranean, 07/24/2013, grade 30/30;

European Middle Ages, 09/23/2013, grade 30/30;

History of Christian Civilization in the Middle Ages, 07/15/2014, grade 29/30;

Middle Latin Philology, 02/28/2014, grade 30/30.

09/11/2013 - 14/01/2014 Piedimonte Matese, Italy

IDENTIFICATION, CATALOGING AND SCHEDULING OF THE 'BEAUTIFUL' REPERTS PRESENT IN THE MUCIRAMA (MUSEO CIVICO RAFFAELE MARROCCO), PIEDIMONTE MATESE (CE) MUCIRAMA (Museo Civico Raffaele Marrocco)

Participation in the study, identification and cataloguing activities of war artifacts, dating from the mid-19th century and the first half of the 20th century, with subsequent production of the captions currently on display inside the MUCIRAMA (Museo Civico Raffaele Marrocco), Piedimonte Matese (CE).

06/10/2013 - 25/10/2013 Siena, Italy

PARTICIPATION IN ARCHAEOLOGICAL EXCAVATION ACTIVITIES AT ALLUMIERE DI MONTELEO (LI) University of Siena - Department of Historical Sciences and Cultural Heritage.

Participation in the activities of archaeological excavation, survey (direct and instrumental), production, management and control of archaeological documentation, for a total of 160 hours, at the archaeological site of Allumiere di Monteleo in the municipality of Monterotondo Marittimo (LI).

01/09/2013 - 30/09/2013 Naples, Italy

PARTICIPATION IN THE EXCAVATION ACTIVITY AT THE ARCHAEOLOGICAL SITE OF SAN VINCENZO AL VOLTURNO (IS) University of Naples Suor Orsola Benincasa

Participation in archaeological work, totaling 176 hours, improved skills in: stratigraphic excavation, surveying (direct and instrumental), managing an archaeological essay, organizing site logistics, coordinating human resources, and compiling and reviewing archaeological documentation (excavation diary, USM sheets, USM, etc.).

03/06/2013 - 26/07/2013 Pollenatrocchia, Italy

PARTICIPATION IN ARCHAEOLOGICAL EXCAVATION ACTIVITY AT THE MASSERIA DE CAROLIS (POLLENATROCCHIA - ITALY) Apolline Project

Participation in the excavation, totaling 320 hours, involved improving stratigraphic excavation skills and the production of graphic and photographic documentation.

03/18/2013 - 03/18/2013 Naples, Italy

CERTIFICATE OF PARTICIPATION IN THE SEMINAR "CULTURAL AND ARCHAEOLOGICAL HERITAGE: THE ROLE OF THE VOLUNTEERING. STRATEGIES AND EXPERIENCES." CSV Naples (Volunteer Service Center).

02/09/2012 - 04/10/2012 Naples, Italy

PARTICIPATION IN ARCHAEOLOGICAL EXCAVATION AND SURVEY ACTIVITIES AT THE CHURCH SITE MEDIEVAL OF SAN PIETRO IN MASSA DI FAICCHIO (200 HOURS) University of Suor Orsola Benincasa Studies.

Participation in archaeological work, totaling 200 hours, improved skills in: stratigraphic excavation, surveying (direct and instrumental), managing an archaeological essay, organizing site logistics, coordinating human resources, and compiling and reviewing archaeological documentation (excavation diary, USM sheets, USM, etc.).

10/06/2012 - 26/07/2012 Naples, Italy

PARTICIPATION IN EXCAVATION AND RESEARCH ACTIVITIES AT THE ROMAN ARCHAEOLOGICAL SITE AT MASSERIA DE CAROLIS (TODAY'S EUROPA PARK), IN THE MUNICIPALITY OF POLLENA TROCCHIA (NA) (270 HOURS) University of Suor Orsola Benincasa Studies.

Participation in the excavation, totaling 280 hours, involved improving stratigraphic excavation skills and the production of graphic and photographic documentation.

11/03/2011 - 20/05/2012 Naples, Italy

PARTICIPATION IN THE SERIES OF MEETINGS ON "CURRENT PROBLEMS OF ARCHAEOLOGICAL RESEARCH" Suor Orsola Benincasa University & ANA (national association of archaeologists)

The Cycle of Meetings, lasting 9 face-to-face hours, covered topics such as: Preventive archaeology (standards, scope and professional opportunities; emergency archaeology and archaeological assistance; archaeology for the social.

10/24/2011 - 11/17/2011 Naples, Italy

PARTICIPATION IN EXCAVATION AND ARCHAEOLOGICAL SURVEY ACTIVITIES AT THE SITE OF THE MEDIEVAL CHURCH OF SAN PIETRO IN MASSA DI FAICCHIO, FAICCHIO (BN) (160 HOURS) Suor University Ursula Benincasa

Participation in excavation activities, totaling 160 hours, improved skills in: stratigraphic excavation, surveying (direct and instrumental), compiling and reviewing archaeological documentation (excavation diary, USM sheets, USM, etc.).

04/09/2011 - 29/09/2011 Naples, Italy

PARTICIPATION IN THE ARCHAEOLOGICAL EXCAVATION ACTIVITY AT THE FORTIFIED SITE OF RUPECANINA, IN THE MUNICIPALITY OF SANT'ANGELO D'ALIFE (CE) (160 HOURS) University of Suor Orsola Benincasa Studies.

Participation in the different phases of investigation (stratigraphic excavation, direct and instrumental survey and compilation of paper documentation) and post-excavation coordination activities, which took place in the finds warehouse of the municipality of Sant'Angelo d'Alife, for a total of 160 hours.

05/29/2011 - 06/03/2011 Italy

PARTICIPATION, AND AWARD WITH "MERIT MENTION," IN THE WORKSHOP/CONCURRENT: "URBAN REGENERATION: THE RAILWAY STATION AREA OF PIEDIMONTE MATESE" University of Suor Orsola Benincasa Studies, Municipality of Piedimonte Matese, University of d

Participation in the Workshop/Competition: "Urban Regeneration: the Piedimonte Matese Railway Station area," held in Piedimonte Matese (CE) from 30/05 to 04/06 of 2011 and concluded with the awarding of the best works on 16-17/09/2011, enabled the acquisition of knowledge in the field of the issues between: Architecture and Archaeology; modern and ancient; excavation and backfilling. It also enabled, thanks to the numerous seminars

held by experts, to develop the skills, required of an archaeologist, for structuring a museum or archaeological park, taking into account the territory and context in which they are going to work. The Workshop fostered the development of collaborative skills with a team of students (group activities and reconnaissance).

06/10/2010 - 07/10/2010 Padua, Italy

PARTICIPATION IN THE CLEANUP WORK AT THE FOREST PALEONTOLOGICAL SITE, KNOWN AS THE "CIAMPATE DEL DIAVOLO," IN THE MUNICIPALITY OF TORA AND PICCILLI (CE) University of Padua.

05/09/2010 - 02/10/2010 Naples, Italy

PARTICIPATION IN ARCHAEOLOGICAL EXCAVATION ACTIVITIES AT THE SITE OF "RUPECANINA" IN MUNICIPALITY OF SANT'ANGELO D'ALIFE (CE) (160 HOURS) University of Suor Orsola Benincasa Studies.

Participation in the activities of archaeological excavation, survey (direct and instrumental), production, management and control of archaeological documentation, for a total of 160 hours, at the site of "Rupecanina" in the municipality of Sant'Angelo d'Alife (CE).

26/07/2009 - 06/08/2009 Naples, Italy

PARTICIPATION IN ARCHAEOLOGICAL EXCAVATION ACTIVITIES AT THE SITE OF "RUPECANINA" IN MUNICIPALITY OF SANT'ANGELO D'ALIFE (CE) (160 HOURS) University of Suor Orsola Benincasa Studies.

Participation in excavation activities, totaling 160 hours, improved skills in: archaeological excavation, surveying (direct and instrumental), managing an archaeological essay, organizing site logistics, coordinating human resources, and compiling and reviewing archaeological documentation (excavation diary, USM sheets, USM, etc.).

13/09/2008 - 13/12/2011 Naples, Italy

THREE-YEAR DEGREE IN CONSERVATION OF CULTURAL GOODS University of Suor Orsola Benincasa

The cursus studiorum was marked by preferring studies in the field of medievalism and the methodologies of archaeological research (excavation techniques, surveying techniques both direct and instrumental, archaeometric sciences), and was completed with an experimental degree work in "Medieval Archaeometallurgy," developed with the chair of "Medieval Archaeology" (supervisor Prof. F. Marazzi of the University of Naples Suor Orsola Benincasa), entitled: Metal finds from the excavation of the Rupecanina Castle (CE): typological study; with a final grade of one hundred and ten out of one hundred and ten with honors (110/110 cum laude).

List of examinations taken:

Medieval History, 01/28/2008, grade 30/30;
Greek grammar (basic elements), 02/28/2008, grade 30/30;
Archaeological research methodologies and techniques (theory and practice), 04/06/2008, grade 30/30;
Geography BB.CC., 09/06/2008, grade 27/30;
Italian Literature, 27/06/2008, grade 30/30; Legislation of Historical Centers, 16/07/2008, grade 27/30; Physical Methodologies for BB.CC., 23/07/2009, grade 30/30;
Geoarchaeology, 11/02/2009, grade 30/30 cum laude;
Survey and technical analysis of ancient artifacts, 02/26/09, grade 30/30;
Roman History, 05/06/2009, grade 28/30;
Early Christian and Early Medieval Archaeology and Art History, 10/07/2009, grade 30/30 cum laude;
Archaeological Restoration, 14/07/2009, grade 30/30 cum laude;
Medieval Archaeology, 09/25/2009, grade 29/30; Applied Botany of BB.CC., 01/18/2010, 30/30; German Language, 01/21/2010, grade "very good."
Latin grammar (basic elements), 26/01/2010, grade 30/30; English language, 27/01/2010, grade "very good."
Latin literature, 02/25/2010, grade 30/30; Metallurgy, metallography, 05/27/2010, grade 30/30;
History of Architecture in the Middle Ages, 5/31/2010, grade 30/30; Ancient Numismatics, 6/16/2010, grade 28/30;
The archaeological site: regulations, safety, 06/17/2010, grade "suitable"; History of archaeology, 07/13/2010, grade 30/30;
Stylistic analysis of late antique and early medieval artifacts, 7/15/2010, grade 30/30 with honors; Materials science and technology, 7/24/2010, grade 30/30;
Greek Literature, 11/01/2011, grade 30/30 cum laude;
Greek History, 02/02/2011, grade 28/30;
Archaeology and history of Greek and Roman art, 6/21/2011, grade 30/30 cum laude;
Video and digital camera use (eligible);
Practical technical internship: laboratory in San Vincenzo al Volturno (eligible);
Use of computer for land monitoring (eligible);

3D modeling strategies in archaeology (eligible); Theoretical and practical internship at Alife laboratory (eligible); School excavation (eligible)

04/07/2006 - 04/07/2006 Naples, Italy

DIPLOMA OF SECONDARY EDUCATION BY STATE SCIENTIFIC LICEO "F. SBORDONE" High School
State Scientific "F. Sbordone"

LANGUAGE SKILLS

Native language: **ITALIAN**

Other languages:

	UNDERSTANDING		ORAL EXPRESSION		WRITING
	Listening	Reading	Oral Production	Oral interaction	
ENGLISH	B2	B2	B2	B2	B2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Elementary level B1 and B2: Intermediate level C1 and C2: Advanced level

SKILLS

3D modeling: Highly skilled | Good mastery in the manipulation of point clouds obtained from Laser Scanner survey | Knowledge and use of major surveying tools in construction and topography | GPS surveying | Good command of photogrammetric surveying software (Agisoft Metashape or Photopscan) | Architectural survey and graphic restitution | Excellent knowledge of GIS, CAD and topography software | Use of software and languages such as R studio, Python, Matlab | Use of Google Earth Engine and Javascript | Use of Remote Sensing and image processing software (e.g. ENVI, SAGA GIS etc.) | Data processing from lidar and multispectral images

PUBLICATIONS

2025

[Publications](#)

Abate, N., Roubis, D., Aggeli, A. *et al.* An Open-Source Machine Learning-Based Methodological Approach for Processing High-Resolution UAS LiDAR Data in Archaeological Contexts: A Case Study from Epirus, Greece. *J Archaeol Method Theory* **32**, 38 (2025). <https://doi.org/10.1007/s10816-025-09706-8>

2025

[Publications](#)

Visone, F.; Abate, N.; Sileo, M.; Masini, N. Assessing Stone Material Recession of Cultural Heritage: New Approach Based on Satellite-Based Rainfall Data and Dose-Response Functions-Case of UNESCO Site of Matera. *Remote Sens.* **2025**, *17*, 1443. <https://doi.org/10.3390/rs17081443>.

<https://www.mdpi.com/2072-4292/17/8/1443>

2025

[Publications](#)

Abate, N.; Goffredo, R.; Dato, G.; Minervino Amodio, A.; Loperte, A.; Frisetti, A.; Ciccone, G.; Zaia, S.E.; Sileo, M.; Lasaponara, R.; et al. Adopting an Open-Source Processing Strategy for LiDAR Drone Data Analysis in Under-Canopy Archaeological Sites: A Case Study of Torre Castiglione (Apulia). *Remote Sens.* **2025**, *17*, 1134. <https://doi.org/10.3390/rs17071134>

2024

[Publications](#)

Telesca, L.; Abate, N.; Lovallo, M.; Lasaponara, R. Investigating the Impact of *Xylella Fastidiosa* on Olive Trees by the Analysis of MODIS Terra Satellite Evapotranspiration Time Series by Using the Fisher Information Measure and the Shannon Entropy: A Case Study in Southern Italy. *Remote Sens.* **2024**, *16*, 1242. <https://doi.org/10.3390/rs16071242>.

2024

[Publications](#)

R. Lasaponara, N. Abate* and N. Masini, "Early Identification of Vegetation Pest Diseases Using Sentinel 2 NDVI Time Series 2016-2023: The Case of *Toumeyella Parvicorvis* at Castel Porziano (Italy)," in *IEEE Geoscience and Remote Sensing Letters*, vol. 21, pp. 1-5, 2024, Art no. 2502305, doi: 10.1109/LGRS.2024.3386218. keywords: {Vegetation mapping;Time series analysis;Market research;Degradation;Vegetation;Diseases;Classification algorithms;Continuous change detection and classification (CCDC);early detection;Google Earth Engine (GEE);parasite degradation;Sentinel 2 NDVI time series}

*Corresponding

DOI: 10.1109/LGRS.2024.3386218

2024

[Publications](#)

Abate, N.; Violante, C.; Masini, N. A Semi-Automatic-Based Approach to the Extraction of Underwater Archaeological Features from Ultra-High-Resolution Bathymetric Data: The Case of the Submerged Baia Archaeological Park. *Remote Sens.* **2024**, *16*, 1908. <https://doi.org/10.3390/rs16111908>

2023

[Publications](#)

Masini, N., Romano, G., Sieczkowska, D. *et al.* Non-invasive subsurface imaging to investigate the site evolution of Machu Picchu. *Sci Rep* **13**, 16035 (2023). <https://doi.org/10.1038/s41598-023-43361-x>

2023

[Publications](#)

Abate, N.; Visone, F.; Sileo, M.; Danese, M.; Minervino Amodio, A.; Lasaponara, R.; Masini, N. Potential Impact of Using ChatGPT-3.5 in the Theoretical and Practical Multi-Level Approach to Open-Source Remote Sensing Archaeology, Preliminary Considerations. *Heritage* **2023**, *6*, 7640-7659.

DOI: <https://doi.org/10.3390/heritage6120402>

<https://doi.org/10.3390/heritage6120402>

2023

[Publications](#)

Integrated use of GIS and remote sensing techniques for landscape-scale archaeological analysis: the case study of Metaponto, Basilicata, Italy

N Abate, D Roubis, F Sogliani, V Vitale, M Sileo, P Arzu - *Exploration Geophysics*, 2023

2023

[Publications](#)

Romano, G.; Capozzoli, L.; Abate, N.; De Girolamo, M.; Liso, I.S.; Patella, D.; Parise, M. An Integrated Geophysical and Unmanned Aerial Systems Surveys for Multi-Sensory, Multi-Scale and Multi-Resolution Cave Detection: The Gravaglione Site (Canale di Pirro Polje, Apulia). *Remote Sens.* **2023**, *15*, 3820. <https://doi.org/10.3390/rs15153820>

2023

[Publications](#)

Telesca, L.; Lovallo, M.; Cardettini, G.; Aromando, A.; Abate, N.; Proto, M.; Loperte, A.; Masini, N.; Lasaponara, R. Urban and Peri-Urban Vegetation Monitoring Using Satellite MODIS NDVI Time Series, Singular Spectrum Analysis, and Fisher-Shannon Statistical Method. *Sustainability* **2023**, *15*, 11039. <https://doi.org/10.3390/su151411039>.

2023

Publications

Telesca, L.; Abate, N.; Faridani, F.; Lovallo, M.; Lasaponara, R. Discerning *Xylella fastidiosa*-Infected Olive Orchards in the Time Series of MODIS Terra Satellite Evapotranspiration Data by Using the Fisher-Shannon Analysis and the Multifractal Detrended Fluctuation Analysis. *Fractal Fract.* **2023**, *7*, 466. <https://doi.org/10.3390/fractalfract7060466>.

2023

Publications

Reconstruction of archaeological contexts through the integrated use of airborne LiDAR and geophysical survey: The case study of San Pietro Infine (Caserta, southern Italy)

R Di Maio, A Emolo, A Frisetti, N Abate, M La Manna - Journal of Archaeological Science: Reports, 2023

2023

Publications

Informational Analysis of MODIS Satellite Evapotranspiration Data of Vegetation Cover: a Method to Reveal the Presence of Plant Diseases

L Telesca, R Lasaponara, F Faridani, N Abate... - SIGNAL 2023 Editors, 2023

2023

Publications

Abate, N.; Ronchi, D.; Vitale, V.; Masini, N.; Angelini, A.; Giuri, F.; Minervino Amodio, A.; Gennaro, A.M.; Ferdani, D. Integrated Close Range Remote Sensing Techniques for Detecting, Documenting, and Interpreting Lost Medieval Settlements under Canopy: The Case of Altanum (RC, Italy). *Land* **2023**, *12*, 310. <https://doi.org/10.3390/land12020310>.

2022

Publications

Telesca, L.; Aromando, A.; Faridani, F.; Lovallo, M.; Cardettini, G.; Abate, N.; Papitto, G.; Lasaponara, R. Exploring Long-Term Anomalies in the Vegetation Cover of Peri-Urban Parks Using the Fisher-Shannon Method. *Entropy* **2022**, *24*, 1784. <https://doi.org/10.3390/e24121784>.

2022

Publications

UAV LiDAR Based Approach for the Detection and Interpretation of Archaeological Micro Topography under Canopy- The Rediscovery of Peticara (Basilicata, Italy)

Nicola Masini, Nicodemo Abate, Fabrizio Terenzio Gizzi, Valentino Vitale, Antonio Minervino Amodio, Maria Sileo, Marilisa Biscione, Rosa Lasaponara, Mario Bentivenga, Francesco Cavalcante
Remote Sensing 14 (23), 6074

<https://doi.org/10.3390/rs14236074>

2022

Publications

[Open Big Earth Observation Data and Artificial Intelligence for the Study and Preservation of UNESCO Natural and Cultural Heritage: The Case of Machu Picchu](#) Rosa Lasaponara, Nicodemo Abate, Carmen Fattore, Nicola Masini, in [Mariusz Ziółkowski, Nicola Masini, José M. Bastante](#) (eds.), Machu Picchu in Context. Interdisciplinary Approaches to the Study of Human Past. Springer Cham, 2022, Pages 239-264.

2022

Publications

[Machu Picchu in : The Inca Building Culture](#)Context, Nicola Masini, Nicodemo Abate, Manuela Scavone, Rosa Lasaponara, in [Mariusz Ziółkowski, Nicola Masini, José M. Bastante](#) (eds.), Machu Picchu in Context. Interdisciplinary Approaches to the Study of Human Past. Springer Cham, 2022, Pages 135-165.

<https://doi.org/10.1007/978-3-030-92766-0>

2022

[Publications](#)

Lasaponara, R.; Abate, N.; Fattore, C.; Aromando, A.; Cardettini, G.; Di Fonzo, M. On the Use of Sentinel-2 NDVI Time Series and Google Earth Engine to Detect Land-Use/Land-Cover Changes in Fire-Affected Areas. *Remote Sens.* **2022**, *14*, 4723. <https://doi.org/10.3390/rs14194723>.

2022

[Publications](#)

Danese, M.; Gioia, D.; Vitale, V.; Abate, N.; Amodio, A.M.; Lasaponara, R.; Masini, N. Pattern Recognition Approach and LiDAR for the Analysis and Mapping of Archaeological Looting: Application to an Etruscan Site. *Remote Sens.* **2022**, *14*, 1587. <https://doi.org/10.3390/rs14071587>

2022

[Publications](#)

N Abate, D Roubis, V Vitale, M Sileo, F Sogliani, N Masini and R Lasaponara, Integrated use of multi-temporal multi- sensor and multiscale Remote Sensing data for the understanding of archaeological contexts: the case study of Metaponto, Basilicata. *J. Phys.: Conf. Ser.* 2204 012020.

2022

[Publications](#)

N Masini, F Sogliani, M Sileo, N Abate, M Danese, V Vitale, R Lasaponara and S Piro, Fusion and integration of heterogeneous close range remote sensing and geophysical data. The case of Grumentum. *J Phys.: Conf. Ser.* 2204 012018.

2022

[Publications](#)

N Abate, R Lasaponara and N Masini, Terrestrial and UAV based infrared thermography for mapping and investigating the humidity of historical buildings. The case of the Castle in Calvello. *J. Phys.: Conf. Ser.* 2204 0120.

2021

[Publications](#)

V. Vitale, N. Abate, 3D Architectural documentation methods using UAS - The case of the Igreja do Carmo (Lisbon) in Heritage Within. European Research Project, 2021, pp. 43-51.

2021

[Publications](#)

F. Saccoccio, L. Di Cosmo, N. Abate, The pottery of the farmhouse in the locality Céscole in Itri (LT): new archaeological sources for the study of the early medieval society between the county of Fondi and the port of Gaeta. in "Il Capitale Culturale," no. 23, Macerata, 2021, pp. 143-180.
DOI: 10.13138/2039-2362/2522

2021

[Publications](#)

N. Abate, A. Frisetti, F. Marazzi, N. Masini, R. Lasaponara. Multitemporal-Multispectral UAS Surveys for Archaeological Research: The Case Study of San Vincenzo Al Volturno (Molise, Italy). *Remote Sens.* **2021**, *13*, 2719. <https://doi.org/10.3390/rs13142719>.

2021

[Publications](#)

R. Lasaponara, C. Fattore, N. Abate, A. Aromando, G. Cardettini, G. Loperte, FIRE-SAT: AN INTEGRATED SATELLITE SYSTEM Monitoring and safeguarding the Lucanian territory from the threat of forest fires, Risk Elaboration, II, 2021, ISSN 2724-1971, pp. 88-98.

2021

[Publications](#)

F. Marazzi; D. Ferraiuolo; A. Frisetti; N. Abate; R. Lasaponara; L. Di Cosmo, 'CLAUSTRUM INTERIUS ET EXTERIUS PREPARAVIT' New data and new hypotheses on the architectural layout of San Vincenzo al Volturno between the ninth and eleventh centuries in the light of recent diagnostic and archaeological investigations (2013-2019), in RACr, Journal of Christian Archaeology, 97, 2021, pp. 169-222.

2021

[Publications](#)

C. Fattore, N. Abate, F. Faridani, N. Masini, R. Lasaponara. Google Earth Engine as Multi-Sensor Open-Source Tool for Supporting the Preservation of Archaeological Areas: The Case Study of Flood and Fire Mapping in Metaponto, Italy. *Sensors* **2021**, 21, 1791. <https://doi.org/10.3390/s21051791>.

2021

[Publications](#)

R. Lasaponara, N. Abate and N. Masini, "On the Use of Google Earth Engine and Sentinel Data to Detect "Lost" Sections of Ancient Roads. The Case of Via Appia," in *IEEE Geoscience and Remote Sensing Letters*, doi: 10.1109/LGRS.2021.3054168.

2020

[Publications](#)

A. Elfadaly, N. Abate, N. Masini, R. Lasaponara. SAR Sentinel 1 Imaging and Detection of Palaeo-Landscape Features in the Mediterranean Area. *Remote Sens.* **2020**, 12, 2611. <https://doi.org/10.3390/rs12162611>

2020

[Publications](#)

N. Abate, A. Elfadaly, N. Masini, R. Lasaponara. Multitemporal 2016-2018 Sentinel-2 Data Enhancement for Landscape Archaeology: The Case Study of the Foggia Province, Southern Italy. *Remote Sens.* **2020**, 12, 1309. <https://doi.org/10.3390/rs12081309>

2020

[Publications](#)

N. Abate, A. Aromando, R. Lasaponara, *A multidisciplinary approach to archaeological research in Sant'Arzenio (Salerno, Italy): new methodologies and consolidated practices for the knowledge of cultural heritage*, IOP Conference Series Earth and Environmental Science 509:012001. DOI: [10.1088/1755-1315/509/1/012001](https://doi.org/10.1088/1755-1315/509/1/012001)

2019

[Publications](#)

A. Frisetti, M. Cuomo, N. Abate, *Archaeology and analysis of fortified contexts in Campania: the case of the Castle of Roccaromana (CE)*, in V Cycle of Medieval Studies (Proceedings of the Conference June 3-4, 2019, Florence), Nume - research group on the early Middle Ages, EBS Editions, Lesmo (MB), 2019, pp. 321-327.

2019

[Publications](#)

N. Abate, R. Lasaponara, *Preventive Archaeology Based on Open Remote Sensing Data and Tools: The Cases of Sant'Arzenio (SA) and Foggia (FG), Italy*, *Sustainability* 2019, 11(15), 4145. DOI: <https://doi.org/10.3390/su11154145>

2019

Publications

N. Abate, A. Aromando, R. Lasaponara, *Old Methods and New Technologies: A Multidisciplinary Approach to Archaeological Research in Sant'Arzenio (Salerno, Italy)*, in International Conference on Computational Science and Its Application (ICCSA 2019), Springer, Cham, 2019, pp. 313-326.
DOI: https://doi.org/10.1007/978-3-030-24305-0_24

2019

Publications

N. Abate, C. Fattore, R. Lasaponara, Analysis, interpretation and discussion on mismatch of Fire severity mapping from UAV, Sentinel -2 and EFFIS: case studies in the Basilicata Region, in EARSEL REMOTE SENSING OF FORESTFIRE DATA, SCIENCE AND OPERATIONAL APPLICATION S3-5 OCTOBER2019- ROME, ITALY, pp. 99-100.

2019

Publications

N. Abate, A. Aromando, R. Lasaponara, A multidisciplinary approach for the study of the territory of Sant'Arzenio (SA): between remote sensing and archaeology, in Annals of the Suor Orsola Benincasa University, edited by P. Craveri, V. Omaggio, Suor Orsola Benincasa University of Naples, Naples 2019, pp. 21-42.

2018

Publications

N. Abate, A. Mammato, *New data on monasticism on the Amalfi Coast: the example of the "Grotta dell'Affresco" (10th-11th centuries)*, in F. Marazzi, C. Raimondo (eds.), *Italo-Greek monasticism (7th-11th centuries). An archaeological reading. Conference of Studies in honor and memory of Filippo Burgarella. Squillace (CZ) - House of Cultures, March 23-24, 2018*. Cerro al Volturno, 2018, pp. 75-88.

2018

Publications

N. Abate, F. D'Angelo, *In vitrum convertere: new considerations on glass production in the monastery of San Vincenzo al Volturno between the 8th and 9th centuries*, in M. Uboldi, S. Ciappi, F. Rebajoli (eds.), *XIX Giornate Nazionali di Studio sul Vetro. Production Sites and Indicators of Glass Production in Italy from Antiquity to the Contemporary Age (May 20-21, 2017. Vercelli. Camillo Leone Museum)*, organized by AIHV (Association Internationale pour l'Histoire du Verre. Italian National Committee, 2018, pp. 61-72.

2018

Publications

N. Abate, C. Capolupo, R. Martino, *The metal finds from the excavations of the Roman Cryptoporticus of Alife (CE). Hypogean findings for the reading of sub divo phenomena*, in F. Sogliani, B. Gargiulo, E. Annunziata, V. Vitale (eds.), VIII National Congress of Medieval SAMI Archaeology - Matera 2018, Florence 2018, pp. 325-329.

2018

Publications

F. Marazzi, A. Frisetti, N. Abate, M. Cuomo, D. Ferraiuolo, The crypt of San Marco dei Sabariani in Benevento. First data for a study of the architectural artifact and its pictorial decoration, in F. Sogliani, B. Gargiulo, E. Annunziata, V. Vitale (ed.), VIII National Congress of Medieval Archaeology SAMI - Matera 2018, Florence 2018, pp. 98-104.

2018

Publications

F. Marazzi, A. Frisetti, D. Ferraiuolo, N. Abate, *Traces of artisanal and mining activities from the excavations of the monastic complex of San Vincenzo al Volturno*, in F. Sogliani, B. Gargiulo, E. Annunziata, V. Vitale (eds.), VIII National Congress of Medieval Archaeology SAMI - Matera 2018, Florence 2018, pp. 320-324.

2018

Publications

F. Marazzi, N. Abate, M. Cuomo, D. Ferraiuolo, A. Frisetti, *The Abbey of SS. Rufino and Vitale (Amandola - FM) and its early medieval pre-existences. Notes for a general framework on the subject of "cross-corridor" crypts*, in SIRIS. Studies and research of the Matera school of specialization in archaeological heritage, 2016, 16. Edipuglia, Bari 2018, pp. 263-289.

2018

Publications

A. Frisetti, N. Abate, L. Di Cosmo, M. Cuomo, *The church of San Leo in Sessa Aurunca (CE): excavation, analysis techniques, finds and decorative apparatus*, in NUME, IV Cycle of Medieval Studies (Proceedings of the Conference June 4-5, 2018, Florence), EBS Print, Arcore 2018, pp. 327-338.

2018

Publications

N. Abate, A. Mammato, *The fresco cave: the phenomenon of monasticism on the Amalfi-Salerno border in the early Middle Ages*, in M. Jurkovic (ed), Hortus Artium Medievalium, vol. 24, Zagreb 2018, pp. 579-588.

2017

Publications

N. Abate, A. Corvino, *A Web Geo-Database for the classification and study of ancient texts: the BHL (Bibliotheca Hagiographica Latin) as a case study for a global instrument*, in OD4CH 2017. Open Data 4 Cultural Heritage (April 27-28, Milan), Milan 2017 (first edition), pp. 89-98.

2017

Publications

A. Corvino, N. Abate, F. Giansante, *A.Da.M. 1.0 (Archaeological Data Management): an application at the service of archaeology for the management of excavation and reconnaissance data*. In A. Scribano, "GARR Conference 2017 - The data way to Science," vol.7, Rome, 2017, pp. 149-153.
DOI: 10.26314/GARR-Conf17-proceedings-28

2017

Publications

N. Abate, Tabs in *Longobards. A people changing history*. G.P. Brogiolo, F. Marazzi, C. Giostra (eds.), Milan 2017, pp. 63 - 67, 70 - 76, 131, 142 - 145.

2016

Publications

N. Abate, A. Corvino, F. Giansante, *The crypt of San Marco dei Sabariani: a proposal for fruizional enhancment*, in. *GARR_16 conference*. in F. Torlongo, "The Creative Network," vol. 6, 2016, pp. 133-136. DOI: 10.26314/GARR-Conf16-proceedings-25

2016

Publications

F. Giansante, A. Corvino, N. Abate, *Safe City: metrics for urban safety in augmented reality*, in GARR Conference_16. in F. Torlongo, "The Creative Network," vol. 6, 2016, pp. 13 ff.
DOI: 10.26314/GARR-Conf16-proceedings-24

2015

Publications

N. Abate, *Circulation of Goods, Artists and Ideas in the Early Middle Ages: the Case of the Monastery of San Vincenzo al Volturno (IS)*, in VII Congress of National Medieval Archaeology (Lecce, September 9 -12, 2015), edited by P. Arthur, M. L. Imperiale, All'Insegna del Giglio, Florence 2015, pp. 213-217.

2015

Publications

Graphic treatment of the 3D reconstructive hypothesis of the structure found on the bank of the Volturno River, in IUXTA FLUMEN VOLTURNUM. THE 2007 EXCAVATIONS ALONG THE FLUVIAL FRONT OF THE ABBEY OF SAN VINCENZO AL VOLTURNO, edited by F.

Marazzi and A. Luciano, Cerro al Volturno 2015, pp. 54, 71.

Publications

Graphic Restitution of the Vitreous Finds, in F. D'Angelo, *The Glass Finds*, in IUXTA FLUMEN VOLTURNUM. THE 2007 EXCAVATIONS ALONG THE FLUVIAL FRONT OF THE ABBEY OF SAN VINCENZO AL VOLTURNO, edited by F. Marazzi and A. Luciano, Cerro al Volturno 2015, Tables 1-4.

2015

Publications

N. Abate, *the Metal Artifacts: an annotated catalog*, in IUXTA FLUMEN VOLTURNUM GLI SCAVI 2007 LUNGO IL FRONTE FLUVIALE DELL'ABBAZIA DI SAN VINCENZO AL VOLTURNO, edited by F. Marazzi and A. Luciano, Cerro al Volturno 2015, pp. 145-170.

2015

Publications

Graphical restitution (orthophoto) of the wall USM 4603/995, in F. Marazzi, *The "Basilica Maior" of San Vincenzo al Volturno (Excavations 2000-2007)*, Volturina Ed. Cerro al Volturno 2014, p. 185 Tav. LXIX.

2013

Publications

N. Abate, *Production and use of metal objects in the medieval castle of Rupe Canina*, in Yearbook of the ASMV (Associazione Storica Medio Volturno) 2014, A.S.M.V. Editions, Piedimonte Matese 2013, pp. 11 -37.

2012

Publications

Graphical restitution of the pattern of burials in: D. Ferraiuolo, Christianization and reorganization of the countryside between late antiquity and the early Middle Ages. Excavation of the church of San Pietro at Massa di Faicchio (BN). In Yearbook of the ASMV 2012, ASMV, Piedimonte Matese, 2012.

2012

Publications

The metal finds, in A. Frisetti, L. Di Cosmo, I. Ebreo, N. Abate; "The castle of rupecanina and the educational site of medieval archaeology. status of research and future proposals for the study of the post-antique phases of the middle Volturno Valley," contained in Annals 2011-2012. Archaeology, field studies and research. Vol. I, editor P. Craveri, Suor Orsola Benincasa University of Studies, Naples 2012, pp. 321-327.

● **NETWORKS AND AFFILIATIONS**

Membership in groups/associations

- AIHV (ASSOCIATION INTERNATIONALE POUR L'HISTOIRE DU VERRE) member, Italian Committee, since 2017.
- SAMI (Society of Italian Medieval Archaeologists) member since 2015.
- AM'ARTE Museum Association. (years 2014/2015)

Collaboration as a 'collaborating member' with the museum association AM'ARTE. The museum association in question is an association established for the purpose of assisting and supporting, in the form of voluntary work, the Raffaele Marrocco Civic Museum (MUCIRAMA) in Piedimonte Matese, so that its activities are guaranteed to the best of its ability.

The collaboration with AM'ARTE includes:

- Opening of the Museum at times and days that are not regularly scheduled.- Public reception service and guided tours within the MUCIRAMA premises during 'ordinary' and 'extraordinary' openings of the museum.- Graphic design work for the creation of cards, flyers, posters etc. during the organization of events or other activities by MUCIRAMA or AM'ARTE Association.

- Certified Speleologist and Speleo-Archeologist SSI (Italian Speleological Society).

● CONFERENCES AND SEMINARS

21/10/2021 - 22/10/2021 Milan

MetroArcheo 2021

Poster presentation:

Terrestrial and UAV based infrared thermography for mapping and investigating the humidity of historical buildings. The case of the Castle in Calvello Nicodemo Abate, CNR - Institute of Methodologies for Environmental Analysis, Italy Rosa Lasaponara, CNR - Institute of Methodologies for Environmental Analysis, Italy Nicola Masini, CNR - Institute of Cultural Heritage Sciences, Italy

21/10/2021 - 22/10/2021 Milan

MetroArcheo 2021

Speaker:

Fusion and integration of heterogeneous close range remote sensing and geophysical data. The case of Grumentum Nicola Masini, CNR-ISPC (Institute of Cultural Heritage Sciences), Italy Francesca Sogliani, University of Basilicata, Italy Maria Sileo, CNR-ISPC, Potenza, Italy Nicodemo Abate, CNR-IMAA, Italy Maria Danese, CNR-ISPC, Potenza, Italy Valentino Vitale, CNR-ISPC, Potenza, Italy Rosa Lasaponara, CNR-IMAA, Italy Salvatore Piro, CNR-ISPC, Italy

16/12/2019 - 18/12/2019 Shenzhen, China

The 4th Digital Belt and Road Conference

Invited speaker

Session: DBAR/IMAA/ACCIMT/HIST Session-I: Big Earth Data Contribution to UN's SDGs for Monitoring, Conservation and Promotion of Natural and Cultural Heritage

Talk Title: N. Abate, *UAV for Archaeological Research: Methods, Tools and New Possibilities*.

09/23/2019 - 09/26/2019 Florence

11th International symposium on digital earth (Isde 11). 'Digital Earth in a transformed society'

Speaker

Talk title: N. Abate, A. Aromando, R. Lasaponara, *A multidisciplinary approach to archaeological research in Sant'Arsenio (Salerno, Italy): new methodologies and consolidated practices for the knowledge of Cultural Heritage*

Link <https://digitalearth2019.eu/>

31/05/2019 - 03/06/2019 St. Petersburg, Russia

The 19th International Conference on Computational Science and Its Applications ICCSA 2019 St. Petersburg University, Russia, July 1 - 4, 2019

Paper presentation, "Old Methods and New Technologies: a Multidisciplinary Approach to Archaeological Research in Sant'Arsenio (Salerno, Italy)"

03/06/2018 - 04/06/2018 Florence (FI), Italy

4th Cycle of Medieval Studies, Florence June 4-5, 2018

Speaker

Talk title: A. Frisetti, N. Abate, M. Cuomo, L. Di Cosmo, *The church of San Leo in Sessa Aurunca (CE): excavation, analysis techniques, finds and decorative apparatus*.

22/03/2018 - 23/03/2018 Squillace (CZ), Italy

Italo-Greek monasticism (7th-11th centuries). An archaeological reading. Conference of Studies in honor and memory of Filippo Burgarella. Squillace (CZ) - House of Cultures, March 23-24, 2018.

Speaker

Conference, paper title: N. Abate, A. Mammato, *New data on monasticism on the Amalfi Coast: the example of the "Grotta dell'Affresco" (10th-11th century)*.

14/10/2017 - 16/10/2017 Venice (VE), Italy

GARR Conference 2017

Speaker

Talk title: A. Corvino, N. Abate, F. Giansante, *A.Da.M. 1.0 (Archaeological Data Management): an application at the service of archaeology for the management of excavation and reconnaissance data*. In GARR Conference 2017 - The data way to Science - Selected Papers.

Venice, November 15-17, 2017

24/05/2017 - 27/05/2017 Pula, Croatia

XXIV IRCLAMA (Annual International Scientific Symposium of the International Research Center for Late Antiquity and Middle Ages, University of Zagreb)

Speaker

Intervention title: N. Abate, A. Mammato, *The fresco cave: the phenomenon of monasticism on the border between Amalfi and Salerno in the early Middle Ages*.

19/05/2017 - 20/05/2017 Vercelli (TO), Italy

19th National Days of Glass Study. Production sites and indicators of glass production in Italy from antiquity to the contemporary age (May 20-21, 2017. Vercelli. Camillo Leone Museum)

Speaker

Organized by AIHV (Association Internationale pour l'Histoire du Verre. Italian National Committee). Talk title: N. Abate, F. D'Angelo, *In vitrum convertere: new considerations on glass production in the monastery of San Vincenzo al Volturno between the 8th and 9th centuries*.

26/04/2017 - 27/04/2017 Milan (MI), Italy

OD4CH 2017. Open Data 4 Cultural Heritage (April 27-28, Milan, Italy).

Speaker

Talk title: N. Abate, A. Corvino, *A Web Geo-Database for the classification and study of ancient texts: the BHL (Bibliotheca Hagiographica Latin) as a case study for a global instrument*.

05/04/2017 - 08/04/2017 Dublin, Ireland

EMASS (Early Medieval Archaeology Student Symposium).

Speaker

Talk title: N. Abate, A. Mammato, *"Grotta dell'Affresco": the monastic phenomenon on the border between Amalfi and Salerno in the Early Medieval period*.

05/04/2017 - 08/04/2017 Dublin, Ireland

EMASS (Early Medieval Archaeology Student Symposium).

Speaker

Talk title: A. Corvino, N. Abate, *A Web Geo-Database for the classification and study of ancient texts: the BHL (Bibliotheca Hagiographica Latin) as a case study for a global instrument*.

05/04/2017 - 08/04/2017 Dublin, Ireland

EMASS (Early Medieval Archaeology Student Symposium).

Speaker

Intervention title: N. Abate, F. D'Angelo, *"Ora et labora": the arts of fire in the medieval monastery of San Vincenzo al Volturno*.

29/11/2016 - 01/12/2016 Florence (FI), Italy

GARR Conference 2016

Speaker

Talk title: N. Abate, A. Corvino, F. Giansante, *The Crypt of San Marco dei Sabariani (BN): a proposal for fruizional enhancement*.

Link <https://eventi.garr.it/it/8-conferenza-garr-2016>

29/11/2016 - 01/12/2016 Florence (FI), Italy

GARR Conference 2016

Speaker

Talk title: F. Giansante, A. Corvino, N. Abate, *Safe City: metrics for urban safety in augmented reality*.

Link <https://eventi.garr.it/it/8-conferenza-garr-2016>

● HONORS AND AWARDS

Acknowledgements and awards

Scholarship at Banco Popolare, for the International Master's Degree in Methods, Materials and Technologies for Cultural Heritage, organized by the University of Rome - Roma 3 (Department of Science), with the collaboration of the Scientific Cabinet of the Vatican Museums (SCV).

Acknowledgements and awards

Honorable Mention at the Workshop/Competition "Urban Regeneration: the Piedimonte Matese Railway Station Area," held in Piedimonte Matese (CE) from May 30 to June 4, 2011 and September 16 to 17, 2011, with the project entitled "Memory and Future: the 2 Faces of Piedimonte."

● PROFESSIONAL SKILLS

Professional skills

ENAC-certified UAS pilot (qualified to operate in Open and Specific).

Experience in the field of satellite data processing (optical multispectral/hyperspectral and SAR) for natural and cultural heritage monitoring.

Excellent skills in: stratigraphic excavation, compilation of archaeological documentation, surveying (direct and instrumental), 3D photogrammetric surveying, archaeological drawing; acquired during theoretical-practical internship activities conducted over the years.

● CERTIFICATIONS

Certifications

SAPR pilot authorized ENAC (National Civil Aviation Authority) to non-critical and critical flight with multicopters (MC) and wing fixed (AL) for the VL category.

Pilot Certificate: ITA-RP-000002416abh STS:

T-STIS-007456

Operator Code: ITEV2WHMr8

Certifications

- Appointment as "Cultore della Materia", for the year 2020/2021, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.
- Appointment as "Cultore della Materia", for the year 2019/2020, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.
- Appointment as "Cultore della Materia", for the year 2018/2019, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.
- Appointment as "Cultore della Materia", for the year 2017/2018, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.
- Appointment as "Cultore della Materia", for the year 2016/2017, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.
- Appointment as "Cultore della Materia", for the year 2015/2016, for the discipline of production archaeology, within the teaching of Medieval Antiquities, at the University of Naples Suor Orsola Benincasa.

● ORGANIZATIONAL SKILLS

Organizational skills

Excellent skills and abilities in organizing logistics and managing human resources, acquired over the years through multiple archaeological volunteer experiences at different sites, as a simple archaeological operator or assay manager. Organizational/management skills refer to the ability to coordinate and manage: people, time and space; optimally and minimizing the expenditure of resources.

I authorize the processing of my personal data in the CV in accordance with art. 13 d. lgs. 30 June 2003 n. 196 - "Code for the Protection of Personal Data" and art. 13 GDPR 679/16 - "European Regulation on the Protection of Personal Data".