***Curriculum***

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|  | ***PhD Prof.ssa Carmela Vaccaro***  *University of Ferrara*  *Department of Physics and Earth Sciences*  *Poli Scientifico Tecnologico Via Saragat 1*  *44122 Ferrara*  *ORCID iconhttps://orcid.org/0000-0002-4954-8697* |  |

Curriculum vitae

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| **PERSONAL INFORMATION** |  |
| First Name and Surname  Nationality  Date of birth  Gender  Work address  Phone number  E-mail  personal web page: | *PhD Prof. Carmela Vaccaro*  Italian citizen  11/03/1959 Siracusa, Italy  female  Department of Physics and Earth Sciences-Ferrara University  Via Saragat, 1. Ferrara 44121  +390532974718,+393383897082,Fax 0532974767  vcr@unife.it  <http://docente.unife.it/carmela.vaccaro-en>; |
| **WORK EXPERIENCE** |  |
| Position:  Scientific-Disciplinary Sector  15/05/2019 **National Scientific Qualification (art.16 of the law 30 December 2010, n.240)** | Associate Professor  MIUR 04, Earth Sciences GEO/09 "Mining Georesources and Mineralogical Petrographical Applications to Environment and Cultural Heritage"  <http://docente.unife.it/carmela.vaccaro>  ***National Scientific Habilitation for the role of Full Professor*** *in the field of Geochemistry, Mineralogy, Petrology, Volcanology, Georesources and Applications (SC A4/01)* Call D.D. 1532/2016 (DECRETI.R.0002175.09-08-2018) |
| 20/06/11-present  20/10/2000–20/06/11  16/03/1990-19/10/2000  1987-1988  August 1986 | Associate Professor of Mining Georesources and Mineralogical Petrographical Applications to Environment and Cultural Heritage in Ferrara University  Associate Professor of Petrology (Sector D03B - petrology and petrography) at Faculty of Mathematical, Physical and Natural Sciences of Ferrara University  Researcher at the Institute of Mineralogy, Ferrara University  search order in a project of the Ministry of Educatin  "Centre for Studies of Saclay nucleated" Cedex |
| 1985-1986 | INGV-CNR, Catania collaboration to project Modeling and control of volcanic eruptions in the Etna area and study of the volcanism in eastern Sicily |
| **EDUCATION** |  |
| 1990  15.01.88  03/10/1983 | PhD in Petrology - Earth Sciences at Catania University  Qualification Professional Geologist - Palermo University; Degree in Geological Sciences in the University of Catania with the grade of 110/110 |
| **RESEARCH TARGETS** |  |
| ORCID  Scopus Author Identifier  07/06/2021 | * https://orcid.org/0000-0002-4954-869[7](https://www.scopus.com/redirect.uri?url=https://orcid.org/0000-0002-4954-8697&authorId=57205429543&origin=AuthorProfile&orcId=0000-0002-4954-8697&category=orcidLink%22) * 57205429543   **h-index 20; Citation 1378; Documents by author110** |
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| **ACADEMIC AND DIDACTIC EMPLOYMENT** |  |
| 2017-2018 - to the present  2017 – 2018  2014 – 2016  2000 – 2014  2011 – 2012  2009 – 2012  2014 to present  2012 to 2014  2010 to 2012  2008 to 2010 | 5-year Single Cycle Master's Degree Course in Architecture at the University of Ferrara (Class: LM-4).  Degree Course in Literature, Arts and Archeology University of Ferrara (Class: L-10).  Degree Course in Science and Technology for Cultural Heritage University of Ferrara (Class: L-43)  Degree Course in Sciences and Technologies for Cultural Heritage I level DM270 University of Ferrara  Degree Course in Sciences and Technologies for the Environment, Nature and Cultural Heritage I level DM270 University of Ferrara  Interclass degree course in Science and Technology for the Environment, Nature and Cultural Heritage (Class 32 - Degrees in Science and Technology for the Environment and Nature DM 270/04 and Class 43 - Degrees in Technologies for the Conservation and Restoration of Heritage, University of Ferrara  Master's Degree Course in Geological Sciences, Georesources and Territory Class LM-74 - Ministerial Decree 270/04) - Double degree between the University of Ferrara and the Universidad de Cadiz (Master in gestion integrada de areas Costiales - GIAL  Master's Degree Course in Geological Sciences, Georesources and Territory Class LM-74 - Ministerial Decree 270/04) - Double degree between the University of Ferrara and the Universidad de Cadiz (Master in gestion integrada de areas Costiales - GIAL)  Master's Degree in Geological Sciences, Georesources and Territory Class LM-74 - Master's Degrees in Geological Sciences and Technologies (DM 270 / 04- DM 17/10). University of Ferrara  Specialized Degree Course in Geological Sciences, Georesources and Territory Class 86 / S - of the Degrees in Geological Sciences). University of Ferrara |
| 2009 to 2011  2000 to 2012  1994 - 2000  2014 to present  2013 - 2014  2010 to 2013  2011 to 2012  2011 to 2013  2000 to 2011  1996 to 1997 | Degree Course in Geological Sciences Class 34 - Degrees in Geological Sciences (DM 270/04) University of Ferrara  Degree Course in Geological Sciences Class 16 - Degrees in Earth Sciences (Ministerial Decree 509/99). University of Ferrara  Degree Course in Geological Sciences V.O. University of Ferrara  Degree in Quaternary Prehistory and Archeology LM 2 - Archeology DM270. code 57598. Joint title between the Universities of Ferrara, Modena and Reggio Emilia, Verona and Trento.  Degree Course in Quaternary Prehistory and Archeology LM 2 Archeology - DM270. Joint degree between the Universities of Ferrara, Modena and Reggio Emilia.  Degree Course in Quaternary Prehistory and Archeology LM 2 Archeology - DM270. Joint degree between the Universities of Ferrara, Modena and Reggio Emilia and Instituto Politecnico de Tomar. In presence with integrated distance learning modality (BLENDED AND e-LEARNING)  Degree Course in industrial product design, University of Ferrara.  Degree Course in Sciences of Cultural and Environmental Heritage Class 13 - Sciences of Cultural Heritage.  Degree Course in Sciences of Cultural and Environmental Heritage I level DM509. University of Ferrara  Degree Course in Physical Methodologies. University of Ferrara |
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| **PHD THESIS TUTOR** |  |
| CICLO XXXI  CICLO XXX  CICLO XXIX  CICLO XXVIII  CICLO XXVII  CICLO XXVI  CICLO XXV  CICLO XXIV  CICLO XXV  CICLO XXIV  CICLO XXIII  CICLO XIX  CICLO XVIII  CICLO XVII  CICLO XVI | **Giorgia Vidoni** 2019 Dottorato internazionale in "Scienze della Terra e del Mare" 1° relatore dr.ssa Alessandra Bonazza del CNR Isac di Bologna, 2° relatore Carmela Vaccaro. Tesi Cofinanziata dal CNR –ISAC Bologna  **ILIE Ana Maria Carmen** 2018 “Smart Sensor Technology for Environmental Monitoring Applications”, 2018 Dottorato di ricerca in "Scienze della Terra" Relatore Carmela Vaccaro  **Antonella Di Roma** 2017 "Hydrogeochemical investigations for aquifers characterization and proposal of a new transmission protocol for the chemical and physical monitoring" Dottorato di Ricerca in Scienze della Terra. 1° Relatore Carmela Vaccaro; 2° Relatore Maria do Rosário Carvalho  **Chiara Ciantelli** 2017 "Environmental impact on Unesco Heritage Sites in Panama" Dottorato di Ricerca in Scienze della Terra 1° Relatore Alessandra Bonazza e 2° Relatore Carmela Vaccaro Bora di studio a supporto della tesi Cofinanziata dal CNR –ISAC Bologna  **Carmelisa D’Antone** 2015 “Absorption of Rare Earth Element in grapevine of volcanic and carbonate soil Dottorato di ricerca in Scienze della Terra Relatore Carmela Vaccaro, Correlatore Marzia Breda”  **Manuel Ballatore** 2015 “Palaeocological Investigations on Plio-Pleistocene European Rhinoceroses (Genus Stephanorhinus): powder x-ray diffraction, carbon isotope geochemistry, tooth wear analyses and biometry “Dottorato di ricerca in Scienze della Terra Relatore Carmela Vaccaro, Correlatore Marzia Breda  **Pepi Salvatore** 2014 “Terroir e Glera: Indagini geochimiche per la definizione dei marker geografici”. Dottorato di ricerca in Scienze della Terra ciclo XXVII supervisore Carmela Vaccaro, correlatore: Luigi Sansone  **Russo Sabrina** 2014 “Idrogeochimica di sorgenti carsiche dell’area transfrontaliera Italia-Slovenia (Monte Canin) Dottorato di ricerca in Scienze della Terra ciclo XXVII supervisore Carmela Vaccaro  **Negar Eftekhari** 2014 “Analisi mineralogico petrografiche per lo studio tacheometrico delle ceramiche del sito archeologico di Shahr-i Sokhta (la città bruciata) del sud-est dell'Iran" Dottorato Internazionale in Scienze e Tecnologie per l’Archeologia e i beni culturali Curriculum Technology of Cultural Heritage dr 1° relatore dr.ssa Ursula Thun, cotutore Vaccaro  **Marina Cangemi** 2014 “La gestione delle collezioni dei musei scientifici e storico naturalistici: ottimizzazione della logistica mediante applicazione di tecnologie di infomobilità” Dottorato in Scienze e Tecnologie per l’Archeologia e i beni culturali Ciclo XXVII Curriculum Technology of Cultural Heritage. Supervisore Ursula Thun Hohenstein, Correlatore Carmela Vaccaro  **Emanuela Marin** 2013 “Il Contributo Della Petrografia E Geochimica Allo Studio Di Bacini Sedimentari Terrigeni” Dottorato di ricerca in Scienze della Terra ciclo XXVI supervisore Carmela Vaccaro Correlatore Giorgio Anfuso  **Rodella Ilaria** 2014 “Riuso dei sedimenti dragati nelle aree portuali: tecniche di trattamento, valutazione delle variazioni tessiturali, morfoscopiche e geochimiche, ed ipotesi di interventi per il riuso dei sedimenti”. Dottorato di ricerca in Scienze della Terra ciclo XXVI supervisore Umberto Simeoni, correlatore Carmela Vaccaro  **Hamed Sayyadshahri** 2014 “Historical and Technological Studies of Khwarizmshahid Tileworking in Khorassan (Northern East of Iran)” Dottorato in Scienze e Tecnologie per l’Archeologia e i beni culturali Ciclo XXVI Curriculum Technology of Cultural Heritage Tutor Prof. Vaccaro Carmela, O’ Kane, Ursula Thun Hohenstein  **Anahita Sahsani** 2014 “Material & Technical Analysis of Armenian Wall Paintings in New Julfa, Isfahan” Dottorato in Scienze e Tecnologie per l’Archeologia e i beni culturali Ciclo XXVI, Curriculum Technology of Cultural Heritage. Tutor: C. Vaccaro, F.C. Petrucci e A. Murray  **Ait Touchnt Ahmed** 2013 “Approche pétrographique et caractérisation géochimique pour l’étude de l’approvisionnement en matières premières lithiques durant le paléolithique ancien et moyen, dans les sites préhistoriques de surface dans le Sud-Est Marocain. Dottorato in Scienze e Tecnologie per l’Archeologia e i beni culturali Ciclo XXV. Supervisore Carmela Vaccaro, correlatore Marta Arzarello e Larbi Boudad  **Lisa Volpe** 2013 “Earth Science and Modern- Contemporary: Fingerprints for the safeguard of artworks in view of fine arts transportation” Dottorato di ricerca in Scienze della Terra ciclo XXV supervisore Carmela Vaccaro, correlatore Maino Giuseppe, Stefania Bruni.  **Parviz Holakooei** 2013 Technological study of the seventeenth century haft rang tiles in Iran with a comparative view to the cuerda seca tiles in Spain Dottorato in Scienze e Tecnologie per l’Archeologia e i beni culturali Ciclo XXV. Supervisore Prof. Petrucci Ferruccio Carlo con correlate Carmela Vaccaro  **Telloli Chiara** 2012 “Metodologie geochimiche di analisidel particolato solido aerodispersoe valutazione dei contributi antropici e naturali”. Università degli studi di Ferrara, dottorato di ricerca in scienze della Terra. (editor. EprintsUnife) supervisore Carmela Vaccaro  **Masotti Sabrina** 2012. Studio antropologico e paleonutrizionale dei resti ossei umani cremati provenienti dalla necropoli romana della stazione centrale di Bologna. Tesi di Dottorato, Università degli studi di Ferrara. Cod. materia: BIO/08 Antropologia e GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Gualdi, Emanuela e cootutore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in Biologia Evoluzionistica e Ambientale. EprintsUnife  **Ferioli Dino Giuliano** 2010 Tracciabilità delle provenienze e valorizzazione dei prodotti alimentari attraverso nuovi sistemi di caratterizzazione geochimica. Cod. materia: GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in Scienze della Terra, 25° EprintsUnife  **Toffano Alice** 2009 Caratterizzazione petrochimica e petrofisica di materiali inerti secondari da costruzione e demolizione, per la realizzazione di impasti ceramici ordinari e calcestruzzi. Cod. materia: GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in scienze della Terra, 24° ciclo  **Rossetti Marta** 2009 Rilascio di radon: problematiche di rilevamento e valutazione dei fattori di rischio. Cod. materia:GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in Scienze della Terra, Co-tutore Paolo Bartolomei ENEA Bologna, 24° ciclo EprintsUnife  **Mattia Taroni** 2008 Sviluppo di metodologie per lo studio di aree a rischio radon” Cod. materia: GEO/09 –Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in Scienze della Terra, Co-tutore Paolo Bartolomei ENEA Bologna, 23° ciclo EprintsUnife  **Campi Fabiano** 2007 Monitoraggio geochimico del suolo e della falda superficiale dopo l'utilizzo agronomico dei fanghi di depurazione come ammendanti Cod. materia: GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in Scienze della Terra, 19° ciclo Bibl. Nazionale Centrale Di Firenze Collocazione: TDR 070 02971; Inventario: CFTD0008039  Misceo Monica 2006 “Analisi delle caratteristiche geochimiche e idrologiche in aree sensibili soggette a rischio di desertificazione” Cod. materia: GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in scienze della Terra, 18° ciclo Bibl. Nazionale Centrale Firenze, Collocazione: TDR 2006 01488, Inventario: CF980601488  **Bertelli Linda** 2006 “Stato ambientale della Sacca di Goro (Delta del Po) attraverso lo studio delle caratteristiche geochimiche dei sedimenti” Cod. materia: GEO/09 - Georisorse minerarie e applicazioni mineralogico-petrografiche per l'ambiente ed i beni culturali. Monografia con supervisore Carmela Vaccaro Università degli studi di Ferrara, dottorato di ricerca in scienze della Terra, 18° ciclo, Bibl. Nazionale Centrale Firenze, Collocazione: TDR 2006 01486. Inventario: CF980601486  **Dezza Evelina** 2005 Caratterizzazione geochimica di un sito inquinato: i sedimenti di fondale acquatico dei canali di Ferrara : caso del canale Guadora, Renazzo di Cento, FE Cod. materia: GEO/08 - Geochimica e vulcanologia Vaccaro, Monografia - Tesi di dottorato Tutore Carmela Università degli studi Ferrara, dottorato di ricerca in scienze della Terra, 17° ciclo, Bibl. Nazionale Centrale Firenze, Collocazione: TDR 2005 5499, Inventario: CF980505499  **Gruppioni Giulia** 2004 Datation par les methodes uranium-thorium (U/TH) et electron spin resonance (ESR) de deux gisements du paleolithique moyen et superieur de Venetie : la Grotta di Fumane (Monts Lessini-Verona) et la grotte Majeure de San Bernardino (Monts Berici-Vicenza) Cod. materia: L-ANT/01 - Preistoria e Protostoria Tuteurs: Carmela Vaccaro, Carlo Peretto ; co-tuteurs: Cristophe Falguères, Jean-Jacques Bahain ; coordinateur du doctorat: Carlo Peretto Università di Ferrara, Dipartimento delle risorse naturali e culturali, dottorato Internazionale in dinamiche ambientali, umane e comportamentali, 16° ciclo, 2001-2003 Bibl. Nazionale Centrale Firenze, Collocazione: TDR 2004 03383, Inventario: CF980403383  **Bonazza Alessandra** 2004 “Atmospheric carbon compound analysis in damage layers on stone monuments” Cod. materia: CHIM/12 - Chimica dell'ambiente e dei beni culturali. Monografia supervisori: Carmela Vaccaro, Cristina Sabbioni, Facoltà di scienze MM. FF. NN., dottorato di ricerca in scienze della Terra, indirizzo petrologico, geochimico e geofisico, 16° ciclo, sede amministrativa: Università di Ferrara Bibl. Nazionale Centrale Firenze, Collocazione: TDR 2004 03330, Inventario: CF980403330 Tesi Cofinanziata dal CNR –ISAC Bologna |
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| **Chief Scientist for Ferrara University in International research projects** |  |
| 2020 -2024 | Associated beneficiary (Project manager for UNIFE) in LIFE Environment and Resource Efficiency project application LIFE19 ENV/IT/000373 ptoject title Recycling of granite scraps II Project acronym: LIFE REGS II |
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| 2020 – 2021 | Team member of Value Project Subcontract for “the enhancement of the archaeological heritage” on behalf of the Comacchio Municipality (Coordinating beneficiary) conferred to the University of Ferrara |
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| 2019 – 2022 | Coordinating beneficiary in the project NET4mPLASTIC - "New Technologies for macro and Microplastic Detection and Analysis in the Adriatic Basin" Interreg V-A Italy - Croatia 2014 - 2020 CBC Programme - Priority Axis: Environment and cultural heritage (Carmela Vaccaro Project manager for UNIFE) |
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| 2019 – 2022 | Associated beneficiary in the project ECOMAP - Ecosustainable management of marine and tourist ports Interreg V-A  Italy - Croatia 2014 - 2020 CBC Programme - Priority Axis: Environment and cultural heritage (Carmela Vaccaro Project manager for UNIFE) |
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| 2019-2020 | CUP F75J20000140009 - PROGETTO “Metodologie geochimiche ed isotopiche” (Laboratorio in Rete – Tecnopolo di Ferrara – Terra&AquaTech) (Carmela Vaccaro Project manager for UNIFE) |
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| 2016 -2017 | Team member of UNIFE in Eridano MuSST project Coordinating beneficiary Museo Archeologico di Ferrara http://musei.beniculturali.it/wp-content/uploads/2017/06/Polo-museale-dell%E2%80%99Emilia-Romagna-%E2%80%93-Eridanus.pdf |
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| 2014-2021 | Associated beneficiary in LIFE AGREE - coAstal laGoon long teRm management LIFE13 NAT/IT/000115LIFE13 NAT/IT/000115 LIFE AGREE (Carmela Vaccaro and Umberto Simeoni Project manager for UNIFE) |
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| Ottobre 2015 | PROMORIVER Erasmus– participation by invitation by VEGAL partnerto the meeting in Turkey to the activities in PROMORIVER Erasmus project |
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| 2012-2013 | "Archeometric analysis for Characterizing the glass of the Roman period in Tomis (Constanta, Romania). Bando Ateneo 2012 Internazionalizzazione (Carmela Vaccaro Project manager for UNIFE)  [http://www.unife.it/ricerca/finanziamenti-gestione/ricerca-internazionale/i-finanziamenti-nazionali-1/start-up-2012/progetti-finan ziati-2012](http://www.unife.it/ricerca/finanziamenti-gestione/ricerca-internazionale/i-finanziamenti-nazionali-1/start-up-2012/progetti-finan%20ziati-2012) |
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| 01.10.2011 | Associated beneficiary WATER RE-BORN - Artificial Recharge: Innovative Technologies for the Sustainable Management of Water Resources (Life + 2011 UE; <http://www.warbo-life.eu/en>) (Carmela Vaccaro Project manager for UNIFE) |
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| 01.11.2011 | Associated beneficiary in the project ASTIS - Groundwater and Transition Isonzo / Soča The CBC Programme Italy-Slovenia 2007-2013 Programming period 2014-2020 standard projects n. 02/2009 – 1 (Carmela Vaccaro Project manager for UNIFE) http://2007-2013.ita-slo.eu/projects/projects\_2007\_2013/ |
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| 01.11.2011 | Associated beneficiary in the project GOTRAWAMA - Transboundary water management in urban areas of Gorizia and Nova Gorica. The CBC Programme Italy-Slovenia 2007-2013 Programming period 2014-2020 standard projects n. 02/2009 - 1 (Carmela Vaccaro Project manager for UNIFE) http://2007-2013.ita-slo.eu/projects/projects\_2007\_2013/ |
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| 01.11.2011 | Associated beneficiary in the project GEP - Joint Geo-Information System (GIS) for Emergency Protection of Drinking Water Resources. The CBC Programme Italy-Slovenia 2007-2013 Programming period 2014-2020 standard projects n. 02/2009 – 1 (Carmela Vaccaro Project manager for UNIFE) http://2007-2013.ita-slo.eu/projects/projects\_2007\_2013/ |
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| 2011-2014 | Carmela Vaccaro contributed to the editing of one of the chapters of the volume dedicated to scientific dissemination for the Tessi Project “Teaching Sustainability across Slovenia and Italy”. The CBC Programme Italy-Slovenia 2007-2013 Programming period 2014-2020 standard projects n. 02/2009 – 1 (UE) Project manager Prof Dondi UNIFE |
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| 2012 -2013 | Team member of UNIFE in TEA (Trace Elements in Artworks)" Trace Elements in Artworks: Identification of punctual placeable and not reproducible characteristics’ (Coordinating beneficiary ENEA Bologna) CHARISMA Projects (Cultural Heritage Advanced Research Infrastructures: Synergy for a Multidisciplinary Approach to conservation/restoration |
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| 2012 | ERANSUM Intensive Programme 2012-1-ES1-ERA10-54375 GLOGE 2011/2012 Global Heritage and Sustainability: Geological, Cultural and Historical LP University of Salamanca. http://campus.usal.es/~globalheritage/ (Coordinating beneficiary Salamanca University Prof Pedeira , Carmela Vaccaro Project manager for UNIFE) |
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| December 2012 - January 2013 | MEMOQUAT - Man and Environments in Morocco during Quaternary 7FP-PEOPLE: PEOPLE (2007-2013) - Associated beneficiary with Head of UNIFE Unit Marta Arzarello. As part of this project, the Carmela Vaccaro did a one-month study period in Morocco. |
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| 2011-present | Team member of TekneHub (*www.teknehub.it*) that is one of the four Laboratories of the Tecnopole of Ferrara, within the European Platform Construction of the High Tecnology Network of the Emilia Romagna region (POR FERS Emilia Romagna Region) |
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| 2011-2014 | Team member of the project “reconstruction plan of the Arsita municipality (TE) following the seismic event of 6/04/2009 (Coordinating beneficiary ENEA Bologna) |
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| 2011 | Winner of the project for the acquisition of large equipment in the Call for 5X 1000 - purchased equipment a coofocal Microraman |
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| 2011-2013 | Research assignment by agreement from Veneto Agriculture Veneto Region “Traceability of the Glera cultivar” |
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| 2008-2012 | subcontractor ENEA in MINNI project for the “Determination of PM10 and PM2.5 of air samples arising from natural phenomena, and by the transport of desert sands, from spray of the sea and suspension of crustal material by wind and to human activities as temporary construction site operations and plowing” (National Integrated Model to support the international negotiation on atmospheric pollution) developed on behalf of the Ministry of the Environment. 36 months from 2008 - [http://www.enea.it/it/produzione-scientifica/pdf-volumi/V2013ProgettoM inni.pdf](http://www.enea.it/it/produzione-scientifica/pdf-volumi/V2013ProgettoM%20inni.pdf) (Carmela Vaccaro Project manager for UNIFE) |
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| 2004 -2007 | CAMI LIFE – Water Bearing Characterization with Integrated Methodologies - LIFE04 ENV/IT/00500 (Coordinating beneficiary OGS (Carmela Vaccaro and Giovanni Santarato Project manager for UNIFE |
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| 2002 -2003 | Team member of IGCP Project No.433 - Caribbean Plate Tectonics Italian-Caribbean Working Group - Brief report of activities (2002) CNR |
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| 2000-2006 | subcontractor ENEA in RIADE projct Integrated research for the application of innovative technologies to reduce the impacts of DE-certification e. The goals of Sub contract are the hydrogeochemical and geological investigations under WP 2.6. Development and validation of innovative methods to understand the influence of climate change on: hydrogeological balances, hydrochemical characteristics of surface and groundwater, human activities, degradation of water resources, soil erosion. Identification of indicators, banks and data and thematic maps |
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| **Team member in the following PRIN projects** |  |
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| Prin 2007  Prin 2005  Prin 2004 | Team member in the PRIN project “Componenti di mantello e sorgenti dei magmi nel sistema Africa-Europa” Protocollo 2007LRZ3E9\_005. Coordinatore scientifico Piccardo Giovanni Battista. Responsabile scientifico per UNIFE : Beccaluva Luigi  Team member in the PRIN project “Sorgenti dei magmi basici e componenti metasomatiche di mantello in ambienti orogenici ed anorogenici Coordinatore scientifico Piccardo Giovanni Battista. Responsabile scientifico per UNIFE: Beccaluva Luigi  Team member in the PRIN project “Sorgenti dei magmi e componenti di mantello nell'area Mediterranea”. Protocollo 2004040502\_005. Coordinatore scientifico: Conticelli Sandro. Responsabile scientifico: Siena Franca. |
| Prin 2003  PRIN 2000 | Team member in the PRIN project “Evoluzione composizionale del mantello litosferico nel sistema Europa-Africa” Protocollo 2003049194\_002. Coordinatore: Piccardo Giovanni Battist  Team member in the PRIN project "Safety and conservation of historic buildings according to building types, construction concept and materials." National Coordinator: Luigia Binda, UNIFE Coordinator Laudiero (Alinea Editrice, ISBN: 8881255375) |
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| **OTHER ACTIVITIES** |  |
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| 13.03.2019 | Invited speaker at a hearing at the 9th Permanent Commission on Land Consumption (Agriculture and Agri-food Production) of the Senate of the Italian Republic |
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| 2015 | EXPO 2015 Fiera di Milano Stand of WARBO project in the MATM Area |
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| February 2015 | geological survey in Argentina Bilateral exchanges of the MAE - Project approved for the collaboration between UNIFE and de Universidad Nacional de La Plata (Argentina), Facultad de Ciencias Naturales y Museo e Facultad de Ciencias Astronòmicas y Geofìsica |
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| 2015 | Premio Smart City 2015 SMAU |
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| 2015 | Premio Smart City 2014 SMAU |
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| 29/31.03.2012 | Cross.png Workshop di progettazione “Bugnara, le pietre della ricostruzione, tra amnesie e memoria storica” http://www.architetturadipietra.it/wp/?p=5560 , |
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| 2009 | First in the ranking of the Emilia Romagna Region in prize related to the requirements of the standards and quality objectives for the design and realization of the exhibition itinerary of the Civic Museum of Ostellato. Coordinators Prof Peretto Carlo and Carmela Vaccaro L.R. 18/2000delibera di Giunta Regionale n° 2049 del 14/12/2009 b) |
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| 2 - 16 October 2005 | Study period carried out with funding from the Bilateral exchanges of the MAE - Project approved for the collaboration between UNIFE and de Universidad Nacional de La Plata (Argentina), Facultad de Ciencias Naturales y Museo e Facultad de Ciencias Astronòmicas y Geofìsica |
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| 2004 | the Municipality of Ostellato funded an agreement to CFR, Consorzio Ferrara Ricerche to design and implement the exhibition itinerary of the Civic Museum of the Municipality of Ostellato, entrusting the scientific responsibility to professors Carmela Vaccaro and Carlo Peretto |
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| 2004-2005 | Carmela Vaccaro collaborated with the “Crop Project - Deep seismic exploration of the Central Mediterranean and Italy” coordinated by Prof. Finetti with the participation as co-author in the writing of three scientific articles. |
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| 2002-2003 | research project funded by Agenda 21 (Notice A21L 2002 Act PG 83707/02 -http: //www.provincia.fe.it/download/Analisi%20fanghi.pdf? server = sd2.provincia.fe.it & db = / intranet / internet.nsf & uid = FB770BD6D5DB00EFC1257507002A 5B95) entitled "Analysis of the seabed sludge of the canals of the Province of Ferrara" coordinator Carmela Vaccaro |
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| 1990 al 1993 | Carmela Vaccaro collaborated at the analysis of the capioni collected in the Ocean Drilling Program (http://www-odp.tamu.edu/publications/SR.HTML) contributing to the petrographic and petrological analyzes of the samples taken in the Nankay Trough Basement, in the oceanic basement of the Celebes and Sulu Sea basins (coordinated by Prof. Serri and Prof Spadea) |
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| ***SPIN-OFF PROJECTS*** |  |
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| 2012 | Co tutor of the Spinner technology transfer project entitled “CPAO”, (bando Spinner 2013 azione 4 Protocollo Regione Emilia – Romagna) grant awarded to Maria Teresa Camerada. Project activity: analysis of surface and airborne contaminants in indoor environments in order to reduce the impact on health and improve the quality of the area in laboratories that need clean rooms |
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| 2012 | Co tutor of the Spinner technology transfer project entitled “CMAO” (bando Spinner 2013 azione 4 Protocollo Regione Emilia – Romagna) grant awarded to Luca Lanzoni. Project activity: development of a quantitative and qualitative method to assess the level of contamination of airborne particulate in order to improve monitoring and sanitation procedures in hospital wards |
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| 2011 | Tutor of the Spinner technology transfer project entitled New Heritage Answer” bando Spinner 2013 azione 4 Regione Emilia – Romagna) grant awarded to Elena Caniato. Project activity: Evaluation of the effectiveness of methods to removal of acrylic resins used in the natural sandstones as stabilisers and protectors in restoration activities of the historical buildings. The experimentation involved resins used in restoration interventions between the 60s and 80s on sandstone coatings. |
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| 2001 | Tutor of the Spinner technology transfer project entitled “Research of alternative materials for the production of ceramics and glass fron sedimentary rocks and identification of the methods of purification of raw materials” grant awarded to Elena Marrocchino grant awarded to FSE Ob.3 Regione Emilia - Romagna 2000/2002 (Misura D.3 e D.4) e del Programma Operativo Ob.3 2000/2006) Technology transfer to Società S.E.I. S.r.l. of Ferrara. Separation and enrichment plant currently in operation |

Ferrara, 07.0.2021

***Prof.ssa Carmela Vaccaro***

