

ENZO RIZZO CURRICULUM VITAE

PERSONAL INFORMATION

Name
Address
Place of birth
Date of birth
Office-mobile
SKYPE
E-mail
E-mail
PEC

MAIN RESEARCH ACTIVITIES

- Shallow surface geophysical techniques (electrical resistivity tomography, ground penetrating radar, electromagnetic, self potential, active and passive seismic) for geological and hydrogeological characterization and monitoring of the subsoil on contaminated zone, landslide area, geological and fault system, volcano, sea water intrusion
- Deep surface geoelectrical method (Deep Electrical Resistivity Tomography) for geological and hydrogeological characterizations of geothermal area, sedimentary basin, volcanic area, seismological area
- Monitoring Geoelectrical technique (vertical and horizontal borehole) for high resolution of the subsoil
- Engineering and Hydrogeophysical applications
- Archaeo-geophysical techniques for buried remains, ancient walls, church pavements, ecc. (GPR, Geomagnetic, EM, Continuous geoelectrical survey)
- AgriGeophysics methods

EDUCATION

- | | |
|---|--|
| <ul style="list-style-type: none"> • Dates (from – to) • Name of organization PhD School • Title of qualification awarded • Principal subjects | 2000-2003
University of Basilicata, Potenza (Italy)
Methods and Technologies for Environmental Monitoring – Department of Engineering
PhD
Geophysical methods for environmental monitoring – Hydrogeophysics |
| <ul style="list-style-type: none"> • Dates • Name of organization • Principal subject skills • Title of qualification awarded • Result | 11/11/1999
University of Basilicata, Potenza (Italy)
Geological Sciences –Geophysics and Structural Geology
Master's degree
110/110 with honours |

ACTUAL POSITION

- | | |
|---|--|
| <ul style="list-style-type: none"> • Dates (from – to) Occupation or position held Name and address of employer • Courses | From 01/10/2019 to now
Associated Professor (GEO/11)
Università di Ferrara – Dipartimento di Fisica e Scienze della Terra
Polo Tecnologico – Via Saragat, 1 (Blocco B) 44122 Ferrara
Geophysics, Applied Geophysics, Geophysical Prospecting |
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COLLABORATION POSITION

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|---|--|
| <ul style="list-style-type: none"> • Dates (from – to) Position held Collaborating institute Activities | From 01/10/2019 to now
Associated researcher
National Research Council (CNR-IMAA) – Hydrogeosite Laboratory, c.da Serra, 85050 Tito (PZ)
Applied Geophysics methods for engineering, environmental, archaeological applications |
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PREVIOUS POSITION

- | | |
|---|---|
| <ul style="list-style-type: none"> Dates (from – to) Position | 09/2019
Senior Researcher (frozen for new position as Associated Professor at Unife) |
| <ul style="list-style-type: none"> • Dates (from – to) • Position | 02/2010 to 09/2019
Researcher with permanent position (TI) |
| <ul style="list-style-type: none"> • Dates (from – to) • Position • Name of employer | 12/2005-01/2010
Researcher with no-permanent position (TD)
National Research Council - Institute of Methodologies for Environmental Analysis (CNR-IMAA) |

Dates (from – to)	Dal 2/2004 a 12/2005
Occupation or position held	Post-Doc (Assegno di Ricerca)
Name of employer	CNR-IMAA
Project	PON – Sviluppo dei distretti Industriali di OT; INTERREG III – Mediterraneo Occidentale
Activities	High Resolution ERT for hydrogeological purposes
ACCADEMIC QUALIFICATIONS	
ASN, 2018 (VI Sem. - 2021)	05/2021 National Academic Qualification: Full Professor (I Fascia - Settore Concorsuale 04/A4-Geofisica)
ASN, 2014	06/2014 National Academic Qualification: Associate Professor (II Fascia - Settore Concorsuale 04/A4-Geofisica)
MAIN RESPONSIBILITIES AT UNIVERSITY OF FERRARA	
Main Responsibilities	2020 to now Head of Laboratory of Applied Geophysic at Dept. Of Physics and Earth Science. 2020 to now Head of Orientation incoming student comitee for Geological Science degree 2020 to now PhD comitee in Earth and Marine Science (EMAS) in the University of Ferrara 2020 to now Associated Research at National Council Research (CNR-IMAA)
MAIN RESPONSIBILITIES AT CNR	
Main Responsibilities for the CNR	2015-2016: Scientific Coordinator of the research activities of WP-MATER-GEO in the project Progetto Premiale Energia, MATER by MISE - Toal Found: 5M€ 2014-2015: Scientific Coordinator of the Interdipartment CNR project: Energy 2011-2014: Scientific Coordinator of all Geophysical Activities and the test site Terme Caronte, Lamezia Terme, Calabria in the Vigor Project - Intesa di programma MISE-DGENRE-CNR-DTA, POI-Energie rinnovabili - Total found (€): 8M€
ACTIVITIES AND ROLES IN THE RESEARCH PROJECTS	
	<ul style="list-style-type: none"> - 2024-2025 Partner del progetto R2CA – Integrazione di indagini geofisiche, caratterizzazioni geotecniche e modellazioni idrauliche per la riduzione del rischio di collasso arginale (UNIMORE, UNIFE, CNR-IRPI) del PNRR Project RETURN – Bando a Cascata (Total Ammount: € 135.000; Found management: € 30.000, Funder: PoliMI; Role: <u>Coordinator of UniFe activities</u>). - 2023-2026 Programma regionale Fondo sociale europeo Plus 2021/2027. Caratterizzazione geochimica e geofisica delle acque e dei suoli come strumento per monitorare e prevenire gli effetti della siccità: test site nel territorio ferrarese. (Found management: n.1 PhD grant (€ 86.743,44), Funder: Regione Emilia Romagna; Role: <u>Coordinator</u>) - 2023-2025 Collaboration project (CNR-IRPI and UNIFE-DFST): Monitoraggio sperimentale di un argine nel territorio della Regione Umbria mediante l'uso di metodi geofisici finalizzato all'identificazione dello stato di fatto del manufatto per la valutazione della vulnerabilità a eventi di piena (Found management: € 21.000, Funder: CNR-IRPI; Role: <u>Coordinator</u>) - 2023-2024 Collaboration Project Comune di Ficarolo & Unife-DFST (Found management: € 2.000, Funder: Comune di Ficarolo; Role: <u>Coordinator</u>) - 2023-2024 “Fondo per l'Incentivazione alla Ricerca” (FIR) – anno 2023. Approccio multidisciplinare allo studio dello stato di degrado di strutture in calcestruzzo armato e armato precompresso (Total Ammount: € 20.000,00, Funder: University of Ferrara, role: <u>Component</u>) - 2022-2023 Validazione metodologie di indagine conoscitiva finalizzate alle valutazioni di sicurezza delle gallerie con tecniche di indagine georadar, ultrasuoni, indagini sismiche dinamiche ed indagini geoelettriche (<u>Industrial project</u>, found management: € 22.000,00; Funder: AZ srl & ITACA srl; role: <u>Coordinator</u>) - 2021-2024- PRIN-Progetti di ricerca di Rilevante Interesse Nazionale – Bando 2020. Fault segmentation and seismotectonics of active thrust systems: the Northern Apennines and Southern Alps laboratories for new Seismic Hazard Assessments in northern Italy (NASA4SHA). (Total Ammount: € 628.500,00, Found management:€ 40.000- Funder: MUR-Italy, role: <u>WP4 leader</u>) - 2021-2023 “Fondo per l'Incentivazione alla Ricerca” (FIR) – anno 2021. ArcheoGeofisica in ambienti costieri: esperimenti in laboratorio e applicazioni sul campo per lo sviluppo metodologico geofisico per siti archeologici in ambienti saturi. (Found management: € 20.850,00, Funder: University of Ferrara, role: <u>Coordinator</u>) - 2018-2021 the Bilateral Project CNR/University of Malta “Hydrogeophysical studies for the characterisation and monitoring of fresh water in coastal area: Laboratory and test site applications” (found management: € 10.000,00, Funder: MAE, role: <u>Coordinator</u>) - 2016-2020 – Metodologie geofisiche per l'individuazione e la caratterizzazione di oggetti sepolti

- in aree ad elevato rischio ambientale. (Total amount: € 150.000,00 - found management: € 100.000,00; Funder: DAT Regione Calabria, role: Coordinator)
- 2019-2020, Studi e ricerche per acquisizioni DC in reservoir petroliferi (Industrial project, found management: € 80.000,00; Funder: Eni Explor. and Prod.; role: Coordinator)
 - 2014-2019 MIUR - CCloud pLATFORM and smart underground imaging for natural Risk Assessment: CLARA. (Total amount: 22M€; found management: € 60.000,00; role: Coordinator Deep Investigation for the WP OR3)
 - 2017-2018, Studi per misure DC in pozzo in un campo petrolifero (Industrial project, found management: € 90.000,00; Funder: Eni Explor. and Prod.; role: Coordinator)
 - 2016-2017, Studi di fattibilità per misure DC-IP in pozzo con case metallico (Industrial project, found management: € 40.000,00; Funder: Eni Explor. and Prod.; role: Coordinator)
 - 2016-2017 the Bilateral Project CNR/ASRT(Egypt) "Geophysical techniques for monitoring hydrocarbon contamination phenomena using laboratory experiments" (found management: € 10.000,00; Funder: MAE, role: Coordinator)
 - 2013-2017 FP7 IMAGE - Integrated Methods for Advanced Geothermal Exploration (Total amount:6M€; found management: € 191.000,00, Funder: European Comunity; Role: Coordinator of CNR-IMAA activities)
 - 2013-2017 MIUR - Smart Cities and Communities and Social Innovation: SMART BASILICATA. (Total amount: 18M€; found management: € 50.000,00; funder: MIUR; Role: Task Leader)
 - 2016 - Progetto di valorizzazione dell'area archeologica di Sibari (found management: € 6.000,00; Funder: Scuola Archeologica di Atene; role: Coordinator)
 - 2014-2015 Scoprire senza scavare, la geofisica a servizio dell'archeologia, Progetto ScSArchGeo (found management: € 107.000,00; funder: PO FERS – Basilicata Region, role: Coordinator)
 - 2014-2015 Tecnologie Idrogeofisiche per la caratterizzazione ed il monitoraggio di siti contaminati, Progetto Ticamosc (found management: € 124.000,00; funder: PO FERS – Basilicata Region, role: Coordinator)
 - 2011-2015 ATLANTE Geotermico by MISE-Italy (Total amount:2M€; found management: € 190.000,00; funder: MISE-ITALY; Role: Coordinator of CNR-IMAA activities)
 - 2012-2014 NET-Eco - Programma per il trasferimento tecnologico dal sistema della ricerca alle pmi e creazione di nuove imprese ad alta tecnologia (Total amount:2M€; found management: € 185.000,00; funder: MISE-Italy; Role: Coordinator of CNR-IMAA activities)
 - 2011-2014 VIGOR - Valutazione del potenziale Geotermico delle regioni di ConveRgenza (Total amount:8M€; found management: € 280.000,00; Funder: MISE-Italy; Role: Coordinator of all Geophysical Activities and of Lamezia Terme test site activities)
 - 2014 Archaeogeophysical acquisition and elaboration in the archaeological site of Policoro (found management: € 5.000,00; funder: University of Basilicata, role: Coordinator)
 - 2011-2012 Applicazioni della tecnica Georadar per la caratterizzazione e l'analisi di strutture edili ed infrastrutture. (found management: € 36.000,00; funder: Regional Project in the framework of Basilicata Innovazione, role: Coordinator)
 - (2009-2012) FP7 ISTIMES - Integrated System for Transport Infrastructures surveillance and Monitoring by Electromagnetic Sensing (Total amount:3M€; found management: € 70.000,00; Funder: European Community; Role: Task leader)
 - 2008-2012 FP7 Model Probe - Model driven Soil Probing, Site Assessment and Evaluation (Total amount:3M€; found management: € 180.000,00; Funder: European Comunity; Role: Coordinator of CNR-IMAA activities)
 - 2012 Geoelectrical acquisition and elaboration data on landslides - Maierato (VV) and Gimigliano (CZ) villages. (found management: € 30.000,00; funder: University of Calabria- Dipartimento di Difesa del Suolo; role: Coordinator)
 - 2011-2013 Tecniche geologiche e geofisiche per l'esplorazione profonda in alcune aree di grande interesse idrogeologico e geotermico nel settore settentrionale della Basilicata (found management: € 45.000,00; funder: Regional Project, role: Coordinator)
 - 2013 Geoelectrical acquisition and elaboration data on dam of Calcione (SI), (found management: € 10.000,00; funder: CNR-IRPI- Dipartimento di Difesa del Suolo, role: Coordinator)
 - 2013-2014 Bilateral Great Relevance Project Italy-China "Silk Road" "Smart management of cultural heritage sites in Italy and China: Earth Observation and pilot project's (role: Participant)
 - 2011-2014, Studio di sensitività di metodi EM (Industrial project, found management: € 500.000,00; Funder: Eni Explor. and Prod.; role: Coordinator)
 - 2011-2012, Applicazioni della tecnica Georadar per la caratterizzazione e l'analisi di strutture edili ed infrastrutture. (Industrial project, found management: € 30.000,00; Funder: Regional Project in the framework of Basilicata Innovazione; role: Coordinator)
 - 2000-2013 Progetto Cluster 11 RIS4 - Ambiente Terrestre "Progettazione e realizzazione di una

- rete di monitoraggio geofisico in aree ad elevato rischio idrogeologico della Regione Basilicata" (Funder: MIUR, role: participant)
- 2002 - 2005 Progetto PON COS(OT) "Consorzio per lo Sviluppo dei Distretti Industriali per le Osservazioni della Terra" Azione C5-OR5 "Tomografie elettromagnetiche per la diagnostica di corpi in frana" (Funder: Italy; role: participant)
 - 2002-2003 Progetto "Potenziamento del Polo CNR di Marsico Nuovo (PZ) attraverso la realizzazione di un "HYDRO_GEO_SITE" (Funder: MIUR Bando MIUR – Decreto del 9 Ottobre 2002; role: participant)
 - 2004- 2005 Progetto "MORFEO (Monitoraggio e Rischio da Frana mediante dati EO) – Protezione civile dalle frane" (Funder: ASI; role: participant)
 - 2004 - 2006 Progetto POP finanziato dalla Regione Basilicata "Tecniche integrate per le stime di pericolosità ed il monitoraggio operativo dei rischi ambientali e naturali in Basilicata con osservazioni dal suolo e da satellite" (azione: metodologie geofisiche integrate per la studio di aree sismicamente attive); Progetto "Sviluppo dei distretti industriali per le Osservazioni della Terra" (Funder: Programma PON 2000-2006 Misura 1.3; role: participant)
 - 2003-2005 Progetto S3 "Scenari di scuotimento e di danno atteso in aree di interesse prioritario e/o strategico"; Progetto V3_5/05 "V3_5 - Vulcano". SUB-PROJECT V3_6 – ETNA UR 39 (Funder: Italy, role: participant)

INTERNATIONAL RESEARCH COLLABORATIONS

Dates (from – to)	2002 –2003
Name and address of institute	CNRS - CEREGE (Aix En Provence – France)
Main activities	CNR scholarship – Geophysics studies for hydrogeological application
Dates (from – to)	2005
Name and address of institute	University of Bologna and Tuzla Municipality (Bosnia and Herzegovina)
Main activities	Geophysical experiments in the Tuzla cities for hydrogeological hazard
Dates (from – to)	2007- 2013
Name and address of institute	Centro de Estudios Arqueológicos Precolombinos (CEAP), Nasca, Peru
Main activities	Archaeogeophysical studies for archaeological sites (Nasca, Lima)
Dates (from – to)	2007 June
Name and address of institute	Boise State University, Boise, Idaho
Main activities	Research experiments about Hydrogeophysics
Dates (from – to)	2007
Name and address of institute	Institute for Space Applications and Remote Sensing - National Observatory of Athens (ISARS) e l'Acropolis Restoration Service (YSMA) – Grece - GPR acquisition on Partenone, Athens (Grece)
Dates (from – to)	2009
Name and address of institute	Bolivia Archaeological Minister, Bolivia
Main activities	Archaeogeophysical studies for archaeological sites in Tiwanaku (El Paz, Bolivia)
Dates (from – to)	2010
Name and address of institute	Helmholtz Centre for Environmental Research - UFZ, Germany
Main activities	Geophysical application in Zeitz contaminated site – Model Probe project FP7
Dates (from – to)	2013
Name and address of institute	"Sveučilište u Zadru - Université de Zadar" (Croazia) e il "Centre Camille Jullian" (France)
Main activities	Archaeogeophysical studies for archaeological sites in Caska (Croatia)
Dates (from – to)	2014
Name and address of institute	Universidade de São Paulo, Brasil
Main activities	Research planning for geophysical research collaboration with Departamento de Geofísica
Dates (from – to)	2014
Name and address of institute	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences (Beijing, China)

Main activities	Archaeogeophysical studies for archaeological sites in Luoyang (China)
Dates (from – to)	2016-2017
Name and address of institute	Academy of Scientific Research and Technology - ASRT (Cairo, Egitto)
Main activities	Geophysical techniques for monitoring hydrocarbon contamination phenomena using laboratory experiments
Dates (from – to)	2018-2020
Name and address of institute	University of Malta
Main activities	Hydrogeophysical studies for the characterisation and monitoring of fresh water in coastal area: Laboratory and test site applications
Dates (from – to)	2023-2024
Name and address of institute	University of Wien
Main activities	Acquisition and elaboration of electromagnetic data: FDM and TEM integration

OTHER ACTIVITIES**Outreach activities and Public engagement**

- Social media Manager fro the Instagram and Facebook account of the Geological Science course at Unife;
- Coordinator of Geological Science group for in numerous editions of the "Notte della Ricerca - Research Night" for the dissemination of Geological Sciences activities
- Coordinator for Geological Science lectures for the network with the high school

Spin-off enterprise

- 2006-2012, Promoting partner of Spin-Off company at CNR-IMAA: TOMOGEA srl
Regional found project, found management 100.000€

Auditor projects

FIRB projects by Ministry of Education, University and Research (MIUR)

ACADEMIC ACTIVITIES

University	University of Basilicata
Course	Prospezioni Geofisiche – Master's degree Geo-Environmental prospection and monitoring
Date	a.a. 2006/07; a.a. 2007/08; a.a. 2014/15
University	University of Basilicata
Course	Geophysical Prospecting course – Master's degree Geoscience and Georesource
Date	a.a. 2015/16; a.a. 2016/17; a.a. 2017/18; a.a. 2018/19, a.a. 2019/20
International school	Invited Professor at <u>Universidade de São Paulo, Brasil</u> XVI Summer School of Geophysics-Departamento de Geofísica – IAG Coure: Geophysical methods for geological, hydrogeological and archaeological applications (in english) 02/2014
	Invited Professor <u>International School "GEOPHYSICS AND REMOTE SENSING FOR ARCHAEOLOGY"</u> Coure: Magnetic and ERT for preventive archaeology course <u>Pompei, Italy, May 2016</u>
Master School	<ul style="list-style-type: none"> • Geophysical techniques for archaeological applications at Master School "GeoArcheologia" (Sept-Oct 2010) • Geophysical techniques for archaeological applications at Master School "FAST" (Sept-Oct 2007) • Electromagnetic techniques for hydrogeological applications at Master ARCHé-University II° degree (Nov. 2006) • Electromagnetic techniques for hydrogeological applications at Master AFLUSO-University II° degree (Jun 2004) • Electromagnetic techniques for hydrogeological applications at Master COS-OT-University II° degree (May2004)

TUTOR BACHELOR AND MASTER'S THESIS**Candidates and Thesis Titles**

- Tecniche geofisiche integrate per la caratterizzazione e il monitoraggio di strutture in cemento armato. **Università di Ferrara** 2023 (Nicola Pollastri, LT)
- Indagini geofisiche e sondaggi geognostici per la caratterizzazione del sottosuolo di un'area adibita alla costruzione di un nuovo edificio scolastico nella città di Matera. **Università di Ferrara** 2023 (Doriana Mianulli,

- LT)
- Indagini geofisiche per la caratterizzazione del sottosuolo di un'area interessata da un adeguamento stradale (SS47 della Valsugana-tn) **Università di Ferrara** 2023 (Anna Bazzanella, LT)
 - Tecniche geofisiche multiscala per lo studio di sistemi di faglia: faglia di budoia – aviano **Università di Ferrara** 2023 (Fabrizio Mucchi, LM)
 - Monitoraggio geoelettrico ed elettromagnetico per lo studio del cuneo salino nel Po di Goro **Università di Ferrara** 2022 (Enrico Ferrari, LM)
 - Sviluppo di uno strumento prototipale low-cost per acquisizioni HVSR - **Università di Ferrara** 2022 (Tommaso Rossi, LT)
 - Metodo magnetico per siti archeologici: sito di Revine Lago - **Università di Ferrara** 2022 (Filippo Bivati, LT)
 - Analisi non distruttive per la caratterizzazione di strutture in cemento armato: limiti e vantaggi del georadar ad alta frequenza– **Università di Ferrara** 2022 (Paola Bordrin, LM)
 - Metodi non invasivi per applicazioni di tipo archeogeofisico: il sito di Bocca delle Menate, Comacchio **Università di Ferrara** 2021 (Leonardo Farinatti, LT)
 - Analisi dei parametri di scuotimento dai dati della rete microsismica di Casaglia, Ferrara – **Università di Ferrara** 2021 (Fabio Zanoni, LT)
 - Tecniche geofisiche per la caratterizzazione ed il monitoraggio di strutture ingegneristiche: applicazioni in laboratorio e in campo – **Università di Ferrara** 2020 (Giacomo Fornasari, LM.)
 - Indagini geoelettriche per lo studio dell'assetto idrogeologico dei complessi carbonatici carsici nell'area di Castel di Lepre (Marsico Nuovo, pz) - **University of Basilicata** 2020 (Rocco Podano, LT)
 - Hydrogeophysical methodologies for the characterization of a coastal aquifer in Malta Island: Gnejna Valley - **University of Basilicata** 2019 (Letizia Pace, LM,)
 - Tecniche geofisiche profonde (DERT) per la caratterizzazione di un sito geotermico nell'area di Larderello- **University of Basilicata** 2017 (Michele Tricarico, LM)
 - Tecniche Geofisiche per lo studio della grotta Castel di Lepre-Marsico Nuovo (PZ)- **University of Basilicata** 2017 (Merilisa Guerriero, LM,)
 - Metodologie idrogeologiche, geofisiche e idrochimiche per la caratterizzazione del sistema acquifero della piana alluvionale dell'Alta Val d'Agri - **University of Basilicata** 2016
 - Caratterizzazione idrogeologica della Piana costiera Jonico-Metapontina in relazione al fenomeno dell'intrusione salina attraverso indagini idrogeologiche geofisiche e chimiche - **University of Basilicata** 2016 (, LM)
 - Ancient Appia Landscapes: survey geofisici e integrazione dei dati - **University of Salerno** 2015 (Maria Faiella Bruno, LM)
 - Caratterizzazione geofisica ed idrogeologica del lago Sirino tramite un utilizzo innovativo di tecniche geofisiche - **University of Basilicata** 2011 (Antonella Lombardo LM,)
 - Tecniche geofisiche applicate a problematiche ambientali: studio di siti contaminati – **University of Salerno** 2011 (Tommaso Angerami, LM)
 - Analisi sperimentale sulla tenuta idraulica dei rilevati arginali - **University of Perugia** 2010 (Simone Monceli, LM)
 - Tecniche geoelettriche profonde per lo studio del bacino dell'alta Val d'Agri (Appennino Meridionale) - **University of Basilicata** 2010 (Maria Carmela Miraglia, LM)
 - Integrazione fra indagini geologiche, geomorfologiche e geofisiche per la caratterizzazione della frana di Pietra Maura - Marsico Nuovo (PZ) - **University of Basilicata** 2010 (Antonella Caputi, LM)
 - Tecniche idrogeofisiche per lo studio delle acque sotterranee: studi in laboratorio e applicazioni in campo - **University of Basilicata** 2009 (, LM)
 - Studio della falda profonda nell'area di venosa e relativa anomalia termica - **University of Basilicata** 2004 (Angela, LM)
 - Tomografie geoelettriche dipolari profonde per l'individuazione del substrato pre-quadernario in alta val d'agri (settore sud-est) – **University of Basilicata** 2002 (Angelica , VO)
 - Misure geofisiche per l'individuazione della contaminazione salina delle acque di falda dell'arco ionico tarantino - **University of Bari – Sede di Taranto** 2002 (, VO)
 - Tomografie geoelettriche ad alta risoluzione per lo studio dei depositi quaternari del bacino dell'alta val d'agri (settore nord-ovest) – **University of Basilicata** 2001 (Gina Paglione, VO)
 - Tomografie geoelettriche ad alta risoluzione per lo studio dei depositi quaternari dell'alta val d'agri (Settore Sud-Est) – **University of Basilicata** 2001 (, VO)

TUTOR AND CO-TUTOR PHD THESIS

Candidates and Thesis Titles

- Caratterizzazione geochemica e geofisica delle acque e dei suoli come strumento per monitorare e prevenire gli effetti della siccità: test site nel territorio ferrarese – University of Ferrara 2023-2026 (PhD Unife, Ruolo: Relatore; Studente: Aaron Sobbe)
- Metodi geoelettrici superficiali e profondi per applicazioni integrate – **University of Ferrara** 2022-2025 (PhD

	<p>Unife, Ruolo: Relatore; Studente: Paola Bordrin)</p> <ul style="list-style-type: none"> • Metodi d ingegneria geofisica per lo studio delle strutture in c.a. – University of Ferrara 2020-2023 (PhD Unife-CNR, Ruolo: Relatore; Studente: Giacomo Fornasari) • Modelli idrogeofisici per lo studio della circolazione dei fluidi in reservoir carbonatici – University of Basilicata 2018-2021 (PhD Industriale, Ruolo: Tutor Industriale; Relatore: Prof. Francesco Sdao; Studente: Merilisa Guerriero) • Sviluppo di un Modello Multifisico innovative per il flusso ed il trasporto di inquinanti nel sottosuolo - University of Basilicata 2013-2016 (Ruolo: Co-Tutor; Relatore: Prof. Salvatore Masi; Studente: Michele Di Biase) • Study of some areas of geothermal interest in various geological-geodynamic context of Souther Italy University of Basilicata 2014-2016 (Ruolo: co-Tutor; Relatore: Prof. Fabrizio Agosta; Studente: Angela Vita Petruzzo) • Electric and Electromagnetic Geophysical Methods for the characterization and monitoring of contamination phenomena – University of Basilicata 2012-2014 (Ruolo: Co-Tutor; Relatore: Prof. Carmine Serio; Studente: Luigi Capozzoli) • Hydrogeophysical methods for soils and groundwater contamination – University of Basilicata 2009-2012 (Ruolo: Co-Tutor; Relatore: Prof. Vincenzo Cuomo; Studente: Valeria Giampaolo) • Hydrogeophysical characterization of heterogeneous porous media by means of Self Potential method - University of Basilicata 2006-2009 (Ruolo: Co-Tutor; Relatore: Prof. Carmine Serio; Studente: Francesco Chidichimo) • Tecniche elettromagnetiche integrate per lo studio dell'inquinamento di suoli e falde - University of Basilicata 2002-2005 (Ruolo: Co-Tutor; Relatore: Prof. Vincenzo Cuomo; Studente: Massimo Bavusi)
Member of academic commissions	<ul style="list-style-type: none"> • Member of PhD Final jury for the XXXIII series – Doctoral course in Geosciences, Padova • Member of PhD Final Jury at University of Naples Federico II – Scienze della Terra, dell'ambiente e delle risorse (Geophysical-geochemical sector)

OTHER SCIENTIFIC ACTIVITIES

Member of International Association	<p>EAGE (European Association of Exploration Geophysicists and Engineers) EGU (European Geosciences Union) IAH (International Association of Hydrogeologists) IASP (International Society for Archaeological Prospection)</p>																								
Editor	<p>From 2022 to now: Editorial Bord member of NDT (MDPI) From 2022 to now: Associate Editors of Frontiers in Water 2020-2021: Guest Editor di Heritage, Special Issue "Geophysical Surveys for Archaeology and Cultural Heritage Preservation" 2019-2021: Guest Editor di Remote Sensing, Special Issue "Geophysical Survey on Coastal Areas"</p>																								
Convener	<p>Convener ad invito per la Sessione "Geofisica applicata per le strutture superficiali e i rischi ambientali" del 37° convegno nazionale GNGTS, 19-21 Novembre 2018 Convener ad invito per la Sessione "Geofisica applicata superficiale" del 37° convegno nazionale GNGTS, 14-16 Novembre 2017 Convener ad invito per la Sessione "Exploring the interaction of surface processes and tectonics in coastal and fluvial systems" del Convegno nazionale SGI, 19-21 Settembre 2023</p>																								
Reviewer of International journal	<table> <tr> <td>Journal of Applied Geophysics</td> <td>Near Surface Geophysics</td> </tr> <tr> <td>Ground Water</td> <td>Biogeoscience</td> </tr> <tr> <td>Journal of Archaeological Science</td> <td>CR Geoscience</td> </tr> <tr> <td>Geophysical Journal International</td> <td>Hydrological Science Journal</td> </tr> <tr> <td>Geophysics</td> <td>Journal of Hydrology</td> </tr> <tr> <td>Journal of Asian Earth Science</td> <td>Natural Hazard</td> </tr> <tr> <td>Environmental Geology</td> <td>Physics and Chemistry of the earth</td> </tr> <tr> <td>Hydrogeology Journal</td> <td>Tectonophysics</td> </tr> <tr> <td>International Journal of Physical Science</td> <td>Waste management and research</td> </tr> <tr> <td>International Journal of Geophysics</td> <td>Advances in Water Resource</td> </tr> <tr> <td>Engineering Geology</td> <td>Central European Journal of Geosciences</td> </tr> <tr> <td>Heritage</td> <td>Journal of African Earth Science</td> </tr> </table>	Journal of Applied Geophysics	Near Surface Geophysics	Ground Water	Biogeoscience	Journal of Archaeological Science	CR Geoscience	Geophysical Journal International	Hydrological Science Journal	Geophysics	Journal of Hydrology	Journal of Asian Earth Science	Natural Hazard	Environmental Geology	Physics and Chemistry of the earth	Hydrogeology Journal	Tectonophysics	International Journal of Physical Science	Waste management and research	International Journal of Geophysics	Advances in Water Resource	Engineering Geology	Central European Journal of Geosciences	Heritage	Journal of African Earth Science
Journal of Applied Geophysics	Near Surface Geophysics																								
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Engineering Geology	Central European Journal of Geosciences																								
Heritage	Journal of African Earth Science																								

Open Archaeology	Applied Water Science
Environmental Earth Science	Geofluid
Survey Geophysics	Construction & Building Material
Geoscience	BGTA
Sensors	Water
Remote Sensing	Scientific Reports
Pure Applied Geophysics	Applied Sciences

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ADDITIONAL INFORMATION

Competence of the Software
 Geoelectrical Inversion software: Res2Dinv, Res3Dinv, Earth Image, DC2DInvRes, TomoLab, Profiler, R2, R3, DCIP2D, ZondRes2D, ERTLAb, ResIPy
 EM elaboration: EMTomo, EMagPy
 GPR elaboration: Reflex
 Seismic elaboration: Geopsy, Grilla, GeoStru
 Data Visualization: Surfer, Slicer, Voxvel
 Data Analysis: Origin, Excel

Competence of the instruments
 Georesistivimeters: Syscal junior, Syscal R2, Syscal Pro, ABEM SAS 1000 and 4000, Sting AGI, Abem Terrameter LS
 GPR: SIR 2000, SIR3000, IDS C-True, Proceq, GSSI 300-800
 Electromagnetic: GEM 300 GSSI, EM Geonics, Profiler EMP400
 Magnetic: G538, GEM walkgradient,
 Data Logger: Keithley series, Campbell series,

Mother tongue
 Italian

English level	Understanding		Speaking		Written
	Listen	Speak	Oral Iteration	Oral Production	
	B1	B1	B2	B2	B1

DATE
 31 October 2024

Luogo
 Ferrara

FIRMA

