



Federico Purri

P.h.D. Researcher

EXPERIENCE

2025-2028 | P.H.D

University of Bologna

High-resolution stratigraphy applied to Quaternary successions: developments and new frontiers for subsurface characterization

2023-2025 | RESEARCH FELLOW

University of Bologna

Stratigraphic reconstruction of Quaternary successions by means of facies analysis on core and use of the mHVSr method in the area of Sheet 184 – Mirandola and 183 – Suzzara.

9/06/2025 - 27/06/2025 | VISITING SCIENTIST

CNR-ISP

Preparation of sediment samples for chemical analyses for paleoclimatic and paleoenvironmental purposes for the reconstruction of the Sapropel S1 multiarchive.

2025 | CO-SUPERVISOR OF MASTER'S THESIS

University of Bologna

Collaboration with the main supervisor in the supervision and revision of a master's thesis on "High resolution correlation of paleosols in the first subsurface of the Modena and Reggio Emilia plains".

3/02/2020 - 19/02/2020 | INTERSHIP

INGV

Digitization of a USGS monograph and creation of a georeferenced database of the world's thermal waters.

EDUCATION

2020-2023 |

ALMA MATER STUDIORUM – UNIVERSITY OF BOLOGNA
Master of Science in Geological and Earth Science

- Thesis: 3D modeling and stratigraphic analysis of the late Quaternary paleovalley of the Pescara River
- Grade: 109/110 (GPA: 4.0)

2016-2020 |

ALMA MATER STUDIORUM – UNIVERSITY OF BOLOGNA
Bachelor of Science in Geological and Earth Science

CULTURAL AND SCIENTIFIC OUTREACH

2024-2025 | ORGANIZING COMMITTEE MEMBER

BeGEO Scientists

Vice-President of the organizing committee of BeGeo conference and responsible for graphics and social media communication and social media manager.

2023-2024 | LABORATORY TUTOR

PLS-Bologna

Led Earth sciences workshops for high school students, including laboratory activities on "Minerals and Rocks of Bologna" and a field trip to the Geology Park Museum of Cava Monticino (Ravenna).

2020-2025 | CONSULTANT

Ass. Archeologica Lametina

Bibliographic research and geoarchaeological mapping of the archaeological area of Lamezia Terme.

CONTACT

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LICENSES AND CERTIFICATION

Professional License as Geologist (Section A)

Alma Mater Studiorum – University of Bologna, Italy | Issued Nov 2023

Driving License

Italian Driving License: Category B

LANGUAGES

Italian Native Speaker

English B2

SKILLS

Soft skills:

Teamworks and Collaboration, Time Management, Adaptability and Resilience, Problem Solving, Effective Communication, Continuous Learning

2D Graphics & desing:

Adobe Illustrator, Photoshop, Autocad, ZW Cad, Canva

3D modelling:

Rhinoceros 3D, Blender, Autodesk, Revit

Professional software:

ArcGIS, QGIS, Grilla, LSR2D

PROJECTS PARTECIPATION

2023-2025 Project CARG 183

National Geological Mapping Program (Sheet 183 – Suzzara)

2023-2024 Project CARG 184

National Geological Mapping Program (Sheet 184 – Mirandola)

2025 PRIN 2022 - Research Projects of National Relevance - 2022LMCW2

CLimate forcing On Adriatic SEa deoxygenation: A multi-archive Reconstruction of Sapropel S1.

2023-2025 PRIN 2022 - Research Projects of National Relevance - 2022PEM2K

Refining the sequence stratigraphy model throught high-resolution onshore-offshore correlation: The Late Quaternary succession of the Po Adriatic System

2019 - 2023 : PRIN 2017 - Research Projects of National Relevance - 2017ASZAKJ

The Po-Adriatic Source-to-Sink system (PASS): from modern sedimentary processes to millennial-scale stratigraphic architecture

PAPER & WORK

Seismic amplification of Late Quaternary paleovalley systems: 2D seismic response analysis of the Pescara paleovalley (Central Italy) | Engineering Geology 341 (2024) 107697. 2024

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DOI: <https://doi.org/10.1016/j.enggeo.2024.107697>

NOTE ILLUSTRATIVE della CARTA GEOLOGICA D'ITALIA alla scala 1:50.000 Foglio 184 MIRANDOLA |National Geological Mapping Program "ISPRA". (2024)

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Contributions of: L. Calabrese³, L. Demurtas², I. Di Cocco⁴, A. Di Martino¹, D. Fontana², G. Lucci¹, D. Magri⁵, L. Martelli³, A. Martini³, F. Michelangeli⁵, F.C. Molinari³, F. Purri¹, V. Rossi¹, I. Sammartino⁶, D. Scarponi¹, M. Seddighi¹, P. Severi³, S.C. Vaiani¹, A. Vecchi¹, D.S. Zanchi Watanabe²

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DOI:10.15161/oar.it/211808

ABSTRACT & CONFERENCES

Decoding Seismic Site Effects in Coastal Lowlands: A 3D Stratigraphic Perspective from the Pescara Paleovalley|SIMP-SGI Padova (2025)

Federico Purri¹ , Andrea Di Martino¹ Alessandro Amorosi¹

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Deformation patterns of late Quaternary paleosols from the central Po Plain (Mirandola area) |GEOSD Cosenza (2025)

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3D Stratigraphic Architecture of the Late Quaternary Pescara Paleovalley Fill and Seismic Site Characterization |SGI-SIMP Bari (2024)

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Shallow subsurface stratigraphy of the Mirandola Area (central Po Plain) reconstructed through combined sedimentological and geotechnical analysis |SGI-SIMP Bari (2024)

Giorgio Lucci¹, Luigi Bruno², Federico Purri¹, Andrea Di Martino¹ Alessandro Amorosi¹

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²Department of Chemical and Geological Sciences, University of Modena e Reggio Emilia

mHVSr-Based 3D Modelling of Late Quaternary Paleovalley System from Italy: Influence of Internal Facies Architecture on Resonance Frequencies and Shear Wave Velocities |SSA Porto Rico (2023)

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Modellazione tridimensionale ed analisi stratigrafica della paleovalle tardoquaternaria del Fiume Pescara |Ordine dei Geologi Abruzzo Chieti (2023)

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