

Federica Benedetti

Abitazione: Italy

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Sesso: Femminile

ISTRUZIONE E FORMAZIONE

[01/11/2023 - Attuale]

National PhD in Earth Observation

Sapienza Università di Roma

Title of the project: "Earth Observation and geochemical investigation of deep (volcanic) mercury cycle"

[28/09/2020 - 12/06/2023]

Master's degree

Sapienza Università di Roma

Indirizzo Piazzale Aldo Moro, 5 , Roma (RM) (Italia) | **Campi di studio** Exploration Geology | **Voto finale:** 110/110 cum laude | **Tesi:** Mantle oxidation state links to LIPs, subduction of continental crust and geochemical tracers in sediments

[25/09/2017 - 29/10/2020]

Bachelor's degree

Sapienza Università di Roma

Indirizzo Piazzale Aldo Moro, 5 , Roma (RM) (Italia) | **Campi di studio** Geological sciences | **Voto finale:** 110/110 cum laude | **Tesi:** "Caratterizzazione petrografica di alcune vulcaniti a melilite del complesso vulcanico di Montefiascone (Monti Vulsini)"

High School Diploma

Liceo scientifico "Paolo Ruffini"

Indirizzo Piazza Dante Alighieri, 1301100, Viterbo (Italia) | **Voto finale:** 85/100

PUBBLICAZIONI

Fe oxidation state and oxygen isotope composition of metasomatized mantle rocks from Tallante

Benedetti F., Marras G., Cannà E., Bianchini G., Brunelli D., Dallai L., Stagno V. *Fe oxidation state and oxygen isotope composition of metasomatized mantle rocks from Tallante, Spain*. Terra Nova, 37, 403-412. <https://doi.org/10.1111/ter.70001>.

On the occurrence of kalsilite in melilite-bearing ultrapotassic lavas from the Roman Province (Vulsini Mts., center Italy)

Innocenzi F., Ronca S., Agostini S., **Benedetti F.**, Lustrino M. (2024). On the occurrence of kalsilite in melilite-bearing ultrapotassic lavas from the Roman Province (Vulsini Mts., center Italy). Lithos, 482-483, 107704.

COMPETENZE LINGUISTICHE

Lingua madre: italiano

Altre lingue:

inglese

ASCOLTO: B1 LETTURA: B1 SCRITTURA: B1

PRODUZIONE ORALE: B1 INTERAZIONE ORALE: B1

CONFERENCE ABSTRACTS

[03/05/2026 - 08/05/2026]

EGU conference 2026-Wien

Benedetti F., Marras G., Lei S., Morelli T., Lin Y., Stagno V. Experimental constraints on mercury solubility both in Fe-Ni(-S) metal and volatile-bearing silicate melts at high pressure and temperature.

[06/07/2025 - 11/07/2025]

Goldschmidt 2025 Conference-Prague

Marras G., **Benedetti F.**, Shang L., Lin Y., Stagno V. Experimental investigation of Hg solubility in CO₂-bearing melts as function pressure, temperature and oxygen fugacity.

[01/07/2024 - 04/07/2024]

2° congresso So.Ge.I - Perugia

Benedetti F., Marras G., Brandano M., Calabrese S., Bosi V., Ricciardi A., Stagno V. The Deep Mercury Cycle: an updated database of natural sources against anthropogenic emissions.

[14/04/2024 - 19/04/2024]

EGU conference 2024- Wien

Benedetti F., Marras G., Brandano M., Calabrese S., Bosi V., Ricciardi A., Stagno V. An updated database of mercury emissions based on remote sensing, geochemical surveys and laboratory experiments.

[14/04/2024 - 19/04/2024]

EGU conference 2024-Wien

Marras G., Stagno V., Aldega L., Domenico Barberio M., **Benedetti F.**, Cornacchia I., Labidi J., Morelli G., Nereo P., Rimondi V., Brandano M. The Bonarelli level (Gubbio, Italy) reveals a potential correlation between the occurrence of oceanic anoxic events and large-scale magmatic activity.

[19/09/2023 - 21/09/2023]

SIMP, SGI, SOGEI, AIV Joint Congress-Potenza

Benedetti F., Stagno V., Marras G., Bianchini G., Dallai L. The investigation of the oxidizing role played by the subduction-driven metasomatic fluids through the oxygen fugacity of mantle peridotites coupled with the mineral oxygen isotopes: case of the peridotite mantle xenoliths of Tallante (Betic Cordillera, Spain).

[12/06/2023 - 15/06/2023]

XVIII International Symposium on Experimental Mineralogy, Petrology and Geochemistry-Milan

Benedetti F., Stagno V., Marras G., Bianchini G., Dallai L. The oxidation state of peridotite mantle xenoliths rocks Tallante (Betic Cordillera, Spain) coupled with oxygen isotopes: implication for the oxidizing role of the subducted crust.

[10/05/2023 - 11/05/2023]

First National Workshop on Fluid and Glass Inclusions-Palermo

Benedetti F., Marras G., Stagno V. Petrographic and spectroscopic investigation of the fluid inclusion in olivines from LIP-related Emeishan picrites.

EXPERIENCE

[29/09/2025 - Attuale]

Tutoring activities to support the course "Geografia fisica con elementi di cartografia e GIS"

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Sapienza University of Rome

[22/11/2024 - 24/01/2025]

Next Generation 2025

Coordinator activities for the Next Generation project orientation courses

Internship

Organization of guided visits and cataloguing activities of finds at the MUST (Museo Universitario di Scienze della Terra, Sapienza University of Rome)

[19/10/2023 - 21/10/2023]

Helper at a congress

Helper at the joint congress of the Società Italiana di Mineralogia e Petrologia (SIMP), Società Geologica Italiana (SGI), Società Geochimica Italiana (SOGEI) and Associazione Italiana di Vulcanologia (AIV) entitled "The Geoscience paradigm: resources, Risks and future perspectives"

STUDENT COLLABORATION SCHOLARSHIP

Sapienza University - Rome, Italy

1. 2023 Support activities for PCTO
2. 2020 Activities at the "Centro informazioni accoglienza e orientamento (CIAO)"
3. 2019 Activities at the "Centro informazioni accoglienza e orientamento (CIAO)"

TRAINING COURSE

[27/06/2025 - 29/06/2025]

ECROFI 2024 Pre-conference workshop - Fluid Inclusion Study: Principles and Application

[10/2024 - 12/2024]

Geochimica applicata ed ambientale

Course organized by Sapienza University of Rome in the frame of the MSc program in Geologia Applicata all'Ingegneria al Territorio e ai Rischi.

[03/09/2024 - 26/09/2024]

Tecnologie GIS per l'analisi delle immagini telerilevate

Course organised by National PhD in Earth Observation and held by Dr. Tommaso Bigio (TEAMDEV ecosystem). I learned basic skills of ArcGIS.

16 hours

[02/2024 - 04/2024]

Rilevamento Geomorfologico e Applicazioni GIS

Course organized by Sapienza University of Rome in the frame of the MSc program in Geologia Applicata all'Ingegneria al Territorio e ai Rischi.

56 hours

[17/06/2024 - 21/06/2024]

Summer School on In Situ Measurements and Sampling of Volcanic Gases

Summer School on In Situ Measurements and Sampling of Volcanic Gases

Italian Geochemical Society (So.Ge.I.) and the IAVCEI Commission on the Chemistry of Volcanic Gases (CCVG)

Vulcano Island

17-21 June 2024

Certificate of attendance

Course of General training health and safety at work for workers and equivalent

UnitelmaSapienza, Sapienza University of Rome

4 hours, A.A 2023/2024

Certificate of attendance

[16/06/2021 - 21/06/2021]

Planetary geology

Course organized by the Doctorate School of Earth, Environment and Resources Science of the University of Naples "Federico II" and held by Dr. Valentina Galluzzi (INAF-IAPS) on June 16th, 17th, 21st, 2021.