

PERSONAL INFORMATION

Arianna Beatrice Malaguti



📍 Istituto Nazionale di Geofisica e Vulcanologia (INGV) – Sezione di Catania – Osservatorio Etneo
- Piazza Roma, 2 – 95125 Catania (Italia)

☎ +39 389 615 0051

✉ arianna.malaguti@ingv.it

🔗 <https://scholar.google.com/citations?user=e-prsMkAAAAJ&hl=it>

ORCID ID <https://orcid.org/0000-0003-2560-3185>

Date of birth 23/05/1993 | Nationality Italy

Current Position PostDoc at INGV in Catania

RESEARCH INTERESTS

Summary

My research interests involve studies of volcanic deposits to reconstruct the evolutionary history of a volcano. My focus has been on the use of several geophysics and volcanological techniques. Applied research includes the use of stratigraphic and petrographic techniques, used in conjunction with paleomagnetism and Ar/Ar to date and understand Holocene and Quaternary volcanic eruptions.

Bibliometric Indicators

SCOPUS: h-index 3, citations 31, documents 4
Google Scholar: h-index 3, citations 36, i10-index 1

WORK EXPERIENCE

From 06/02/2024 to today

INGV PostDoc

Istituto Nazionale di Geofisica e Vulcanologia (INGV) – Sezione di Catania

- Study of volcanic processes using geophysical methods.

From 2023 to 2024

INGV Research Fellow

Istituto Nazionale di Geofisica e Vulcanologia (INGV) – Sezione di Catania

- Carrying out technological/scientific activities aimed at analyzing the data produced by Etna's magnetic monitoring network and the innovation of acquisition and transmission systems

EDUCATION AND TRAINING

2023

PhD in Research Methods in Science and Technology at the University of Urbino

University of Urbino "Carlo Bo"

- Experimental thesis: " The contribution of paleomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ datings to understand the evolution of Quaternary and active volcanoes ".

2022

Study and research periods abroad

l'Institut des Sciences de la Terre d'Orléans (France)

- Ar/Ar laboratory. Sample preparation and use of total fusion and step heating techniques for Ar/Ar dating on sanidine and leucite crystals.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

English

UNDERSTANDING		SPOKEN		WRITING
Listening	Writing	Interaction	Production	
B2	B2	B2	B2	B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

MEETINGS CONFERENCES

2024	Malaguti, A.B., Branca, S., Corradino, C., Zago, V. Machine learning for data-driven discovery in volcanology. Cities on Volcanoes 12, Feb 11-17 2024, La Antigua (Guatemala). Poster section.
2023	Malaguti, A.B., Speranza, F., Pistolesi, M., Rosi, M., Scaillet, S., Renzulli, A. Coupling paleomagnetism and ⁴⁰ Ar/ ³⁹ Ar dating to unravel the evolution of the youngest caldera forming eruptions from the Latera Volcanic Complex (Italy). AGU23 Fall Meeting, Dec 11-15 2023, San Francisco (USA). Oral talk (invited).
2023	Malaguti, A.B., Speranza, F., Branca, S., Coltelli, M., D'Ajello Caracciolo, F., Del Carlo, P., Renzulli, A. Paleomagnetic constraints on Holocene eruption ages from Mt. Etna (Italy): The Alcantara lava flow and the Valle del Bove flank collapse case histories. AGU23 Fall Meeting, Dec 11-15 2023, San Francisco (USA). Poster section.
2023	Magli, A., Speranza, F., Branca, S., Coltelli, M., Corsaro, R., Malaguti, A.B., Giordano, G. Paleomagnetic dating of prehistoric flank eruptions from the SE lower slopes of Etna volcano. SIMP-SGI-SOGEI National Congress, Sep 19-21 2023, Potenza (Italy).
2022	Malaguti, A.B., Branca, S., Speranza, F., Coltelli, M., Del Carlo, P., Renzulli, A. Age of the Valle del Bove formation and chronology of the post-collapse flank eruptions, Etna volcano (Italy). 5a Conferenza A. Rittmann 2022, Sep-Oct 29-01 2022, Catania (Italy). Poster presentation.
2022	Magli, A., Speranza, F., Branca, S., Coltelli, M., Corsaro, R., Giordano, G., Malaguti, A.B., Paleomagnetic dating of prehistoric flank eruptions from the SE lower slopes of Etna volcano. 5a Conferenza A. Rittmann 2022, Sep-Oct 29-01 2022, Catania (Italy).
2021	Malaguti, A.B., Speranza, F., Rosi, M., Pistolesi, M., Menzies, M. The contribution of paleomagnetism, tephro-chronology, and radiocarbon dating to refine the last 1100 years of eruptive activity at La Fossa caldera and Vulcanello, Vulcano (Italy). AGU21 Fall Meeting, Dec 12-17 2021, New Orleans (USA). Poster section.
2021	Malaguti, A.B., Rosi, M., Pistolesi, M., Speranza, F., Menzies, M. The last 1100 years of eruptive activity at La Fossa caldera, Vulcano (Italy) unravelled using tephro-chronology, radiocarbon and paleomagnetic dating. Be Geo scientists – 1° Congresso Nazionale dei Giovani Geoscientisti, Oct 7-10 2021, Napoli (Italy). Poster section.
2020	Malaguti, A.B., Billotta, E., Pistolesi, M., Lucchi F., Tranne, C.A., Albert, P.G., Di Roberto, A., Speranza, F., Rosi, M. Volcanological and chronological characterization of the recent (last 2000 years) rhyolitic eruptions of Lipari (Aeolian Islands, Southern Italy). 4a Conferenza A. Rittmann 2020, Feb 12-14 2020, Catania (Italy). Oral presentation.
2019	Branca, S., D'Ajello Caracciolo, F., Malaguti, A. B., Speranza, F. Vincoli su età e volume delle colate di lava messe in posto nella valle dell'Alcantara (Etna). Nuovi dati sulla base di datazioni paleomagnetiche e modellazioni magnetiche 3D. Giornate di Studio sull'Etna, Feb 12-13 2019, Sala Convegni, Osservatorio Etneo, Piazza Roma 2, Catania (Italy).

ORGANIZATION OF SCIENTIFIC MEETINGS (in the last 10 years)

2022	Convener of the session S01 “ <i>Volcano geology, stratigraphy, chronology and paleomagnetism to unravel the eruptive behavior and related hazards</i> ”, 5° Conferenza A. Rittmann, Catania, 29 September- 01 October 2022.
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FURTHER INFORMATION

Memberships

- International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) since 2024
- American Geophysical Union (AGU) since 2021
- Associazione Italiana di Vulcanologia (AIV) since 2020

Evaluation of research results

- Manuscript Reviewer for international journals: Quaternary Geochronology

ATTACHMENT

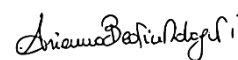
- List of the top publications in the main research field (in the last ten years)

Personal data

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Date: Catania, 16 March 2024

Signature: Arianna Beatrice Malaguti

**List of the top publications in the main research field (in the last ten years)**

1. Malaguti, A.B., Branca, S., Speranza, F., Coltelli, M., Del Carlo, P., Renzulli, A. (2023). Age of the Valle del Bose formation and chronology of the post-collapse flank eruptions, Etna volcano (Italy). J. Volcanol. Geotherm. Res. <https://doi.org/10.1016/j.jvolgeores.2023.107752>.
2. Malaguti, A.B., Rosi, M., Pistolesi, M., Speranza, F., Menzies, M. (2022). The contribution of paleomagnetism, tephro-chronology, and radiocarbon dating to refine the last 1100 years of eruptive activity at La Fossa caldera and Vulcanello, Vulcano (Italy). Bulletin of Volcanology. <https://doi.org/10.1007/s00445-021-01515-7>.
3. Pistolesi, M., Rosi, M., Malaguti, A.B., Lucchi, F., Tranne, C.A., Speranza, F., Albert, P.G., Smith, V., Di Roberto, A., Billotta, E. (2021). Chrono-stratigraphy of the youngest (last 1500 years) rhyolitic eruptions of Lipari (Aeolian Islands, Southern Italy) and implications for distal tephra correlations. J. Volcanol. Geotherm. Res., 420:107397. <https://doi.org/10.1016/j.jvolgeores.2021.107397>.
4. Branca, S., D'Ajello Caracciolo, F., Malaguti, A.B., Speranza, F. (2019). Constraining age and volume of lava flow invasions of the Alcantara valley, Etna volcano (Italy). New insights from paleomagnetic dating and 3D magnetic modeling. J. Volcanol. Geotherm. Res., 374, 13–25. <https://doi.org/10.1016/j.jvolgeores.2019.02.009>.