PERSONAL INFORMATION **Arianna Beatrice Malaguti**
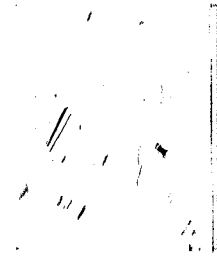
Sex F | Date of birth | N   ationality Italy

EDUCATION AND TRAINING

- 2016-2018: Master degree in Geosciences and Geotechnologies (110/110 with honors): "Dating the eruptions of Lipari and Vulcano of the last 6 ka: the contribution of Paleomagnetism"; Department of Earth Sciences, University of Pisa (Italy). Supervisor: Prof. Mauro Rosi; Advisor: Dr. Marco Pistolesi, Dr. Fabio Speranza.

- 2012-2015: Bachelor degree in Geology (110/110 with honors): "Friction and deformation of serpentinite rocks"; Department of Earth Sciences, University of Siena (Italy). Supervisors: Prof. Cecilia Viti.

- 2007-2012: High school degree (89/100): Liceo Classico J.J. Rousseau, Viterbo (Italy).

INTERNSHIP

- 2018: Research training at INGV, Roma (Italy), Paleomagnetism Laboratory: measure the directions and intensity of the remaining magnetization of the volcanic products of Lipari and Vulcano (Aeolian Islands, Italy); date with the secular paleo-variation method of the magnetic field. Supervisor: Dr Fabio Speranza.

- 2017: Research training at INGV, Roma (Italy), Paleomagnetism Laboratory: measure the directions and intensity of the remaining magnetization of the volcanic products of the Alcantara Valley in Sicily (Italy), then determine the age of the analyzed flows using the secular paleo-variation method of the magnetic field". Supervisor: Dr. Fabio Speranza.

- 2015: Internship: "Thermal analysis techniques". Thermal analysis on samples of sepiolite, gypsum and kaolin. On these was performed a differential thermal analysis (DTA), a thermogravimetric analysis (TG), XRD data acquisition and SEM observations. Università degli studi di Siena. Supervisor: Prof. Cecilia Viti.

ADVANCED TECHNIQUES

- Optical microscope.

- Scanning electron microscopy (SEM).

- X-ray powder diffraction (XRD).

- Cryogenic magnetometer: alternating-field demagnetization (AF) and thermal demagnetization (TH).

- Kappabridge MK1.FA: determination of Curie Temperature and magnetic susceptibility.

- MicroMag of Princeton Measurement Corporation (2900): acquisition of IRM and Hysteresis loop.

SOTFTWARE

- SUFYTE5W: thermomagnetic curves, Curie Temperature.
- SAFYR6: magnetic susceptibility.
- Remasoft 3.0: demagnetization diagrams.
- Matlab tool, archaeo_dating (Pavón-Carraco et al. 2011).
- Microsoft Office: Word, Excel, Power Point.
- Adobe Illustrator.

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	English: read, written and spoken French: read
Driving licence	B

ADDITIONAL INFORMATION

Publications in Peer-reviewed journals
- 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. *Journal of Volcanology and Geothermal Research, 374*, 13–25. https://doi.org/10.1016/j.jvolgeores.2019.02.009

Journals Meetings Conferences
- 2019: Branca, S., D'Ajello Caracciolo, F., **Malaguti, A. B.**, & Speranza, F. (2019). 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).

Certifications
- Training course for workers with learning assessment on Health and Safety in the workplace. Scientific area - high risk. July 6-7 2015. Università degli studi di Siena.