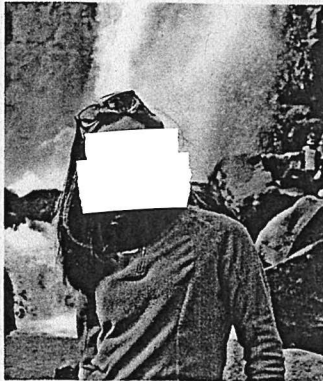


CURRICULUM VITAE



PERSONAL INFORMATION

Gaia Maria Militello



Sex: [redacted] 0 [redacted]

EDUCATION

MSc in Earth Sciences, University of Catania, Catania (Italy) — 16/01/2015

Thesis: I and S type granitoids in the Serre Massif (Central Calabria, Italy) and application of the "Restite model"

LLP PROGRAM - Erasmus studio action A.A. 2013-2014

Instituto Superior Tecnico de Lisboa, Lisbona (Portugal) - 10/02/2014-10/07/2014

Frequency and, sustained: Geological resources, Hydromineral and geothermal resources, Open pit mining and quarrying, Recycling and valorization of solid waste

BSc in Earth Sciences, University of Catania, Catania (Italy) — 30/03/2012

Thesis: Individuation of an archaeological geosite in the Peloritani mountains: The San Carlo Mine, Fiumedinisi (ME, Italy)

WORK EXPERIENCE

PhD Student, University of Genoa, Genoa (Italy) — 01/11/2017-Present

PhD topic: Geologic, environmental and normative issues in the Naturally Occurring Asbestos (NOA) management

Research fellow, University of Genoa, Genoa (Italy) — 01/06/2016-31/10/2017

Evaluation of the presence and quantification of asbestos fibers in excavated soils and rocks ("Terzo Valico dei Giovi" project-Section A.V./A.C.Milan-Genoa) by Scanning Electron Microscopy (SEM) coupled with Energy Dispersive Spectroscopy (EDS)

Trainer Geologist, Catania, Italy — 06/10/2015-11/05/2016

SIGEO Drilling s.r.l., Catania (Italy)

**PUBLICATIONS
AND SHORT NOTES**

- **Militello G.M.**, Sanguineti E., Yus González A. & Gaggero L. (2020). Asbestos amphiboles: effects of comminution on tremolite and actinolite regulated and unregulated fibres. *Episodes*, 43(3): 909-918. <https://doi.org/10.18814/epiiugs/2020/0200s09>
- **Gaia M. Militello**, Elisa Sanguineti, Adrián Yus González, Federico Mantovani & Laura Gaggero (2019). The Concentration of Asbestos Fibers in Bulk samples and Its Variation with Grain Size. *Minerals* 2019, 9, 539; doi:10.3390/min9090539. www.mdpi.com/journal/minerals
- **Gaia M. Militello**, Andrea Bloise, Laura Gaggero, Gabriele Lanzafame & Rosalda Punturo. Multi- Analytical Approach for Asbestos Minerals and Their Non-Asbestiform Analogues: Inferences from Host Rock Textural Constraints. *Fibers* 2019, 7, 42; doi:10.3390/fib7050042. www.mdpi.com/journal/fibers
- Sanguineti Elisa, Yus González Adrián, **Militello Gaia Maria**, Gaggero Laura, Alberto Scuderi, Giovanni Parisi 2018 Monitoraggio di fibre di amianto nello scavo di gallerie. In: AMIANTO un fantasma del passato o una storia infinita? Eds. C. Minoia, P. Comba, Newpress edizioni, ISBN 978-88-9356-038-2
- Gaggero L., Sanguineti E., Yus González A., **Militello G. M.**, Scuderi A., Parisi G. (2017). Airborne asbestos fibres monitoring in tunnel excavation. *Journal of Environmental Management* 196C (2017) pp.583-593. <http://dx.doi.org/10.1016/j.jenvman.2017.03.055>
- Fiannacca P., Lombardo R., **Militello G. M.**, Cirrincione R. (2016). Plagioclase microstructures and compositions as tracers of mixing processes in weakly to strongly peraluminous granodiorites and granites from the Serre Batholith (southern Italy). *Rend. Online Soc. Geol. It.*, Vol. 38 (2016), pp. 43-46,3 figs (doi:10.3301/ROL.2016.13)
- Fiannacca P., Bonanno F., Carciotto M., **Militello G.**, Cirrincione R. (2014) Geochemical constraints on late Variscan granitoid magmatism in central Calabria (Southern Italy). *Rendiconti Online Societ. Geologica Italiana*, 31: 764
- Saccà C., Saccà D., Cirrincione R., Fiannacca P., **Militello G.**, Nucera P., Ortolano G (2012). The San Carlo mine: An archeological tour in the sicilian mining industry (Peloritani Mountains, NE Sicily). *Rendiconti Online Societ. Geologica Italiana*, 21:710-711.

CONFERENCES

Parma (Italy), 16–19 September 2019. SIMP-SGI-SOGEI 2019

Oral presentation

- Militello G.M., Gaggero L., La Maestra S., Sanguineti E., Yus González A. & Lavagnino G. - Lower and upper aspect ratio range to consider on quantitative determination of Elongated Mineral Particles (EMP) in bulk samples and in vitro study. <https://doi.org/10.3301/ABSGI.2019.05>

Wien (Austria), 7–12 April 2019. EGU General Assembly 2019

Poster presentation

- Eugenio Fazio, Andrea Bloise, Rosalda Punturo, Carmela Vaccaro, Gabriele Lanzafame, Gaia M. Militello, Marzia Rizzo, Carmine Apollaro & Claudia Ricchiuti. Microtomography investigation of asbestos and fibrous

minerals bearing ophiolites. Geophysical Research Abstracts Vol. 21, EGU2019-17256, 2019 EGU General Assembly 2019.

Catania (Italy), 12-14 September 2018. Congresso congiunto SGI-SIMP. "Geosciences for the environment, natural hazard and cultural heritage"

Poster presentation

- Militello G.M., Gaggero L., Punturo R., Bloise A., Sanguineti. E., Yus González A. & Lanzafame G. Multi-instrumental investigations on asbestos minerals and their non asbestiform analogues: inferences from host rock textural constraints. SGI-SIMP 2018 pp. 584 Abstract book.

Melbourne (Australia), 13-17 August 2018. XXII Meeting of the International Mineralogical Association (IMA)

Poster presentation

- Gaia Maria Militello, Rosalda Punturo, Laura Gaggero, Andrea Bloise & Gabriele Lanzafame. Coupled Synchrotron Radiation X-Ray Microtomography (SR X-ray μ CT) and SEM-EDS in characterisation of Natural Occurrences of Elongated Mineral Particles. IMA 2018 pp.455 Abstract book
- Gaia Maria Militello, Elisa Sanguineti, Adrián Yus González, Federico Mantovani, Laura Gaggero. Effects of comminution on quantitative determination of tremolite and actinolite fibres in bulk samples. IMA 2018 pp. 454 Abstract book.

Bressanone (Italy), 12-15 February 2018. Mineralogical School of the National Mineralogical Group (GNM) and Italian Society of Mineralogy and Petrology (SIMP): "Physical properties of minerals: how and why to dive into their Knowledge"

Poster presentation

- Gaia M. Militello, Laura Gaggero, Elisa Sanguineti, Adrián Yus González & Rosalda Punturo. Insights on mineralogical, environmental and normative issues in the Naturally Occurring Asbestos (NOA) management: identification and quantification by SEM-EDS and synchrotron radiation x-ray microtomography. Plinius.

Pisa (Italy), 3-6 September 2017 Congresso SIMP-SGI-So.Ge.I.-AIV2017.

Oral presentation

- Militello G.M., Yus González A., Sanguineti E. & Gaggero L. (2017). Comparison among Italian normative methods for asbestos quantification in massive lithotypes by SEM-EDS. Congresso SIMP #43/2017. Plinius. ISSN 2038-1719. pp. 136 Abstract book.

Poster presentation

- Sanguineti E., Militello G.M., Yus González A. & Gaggero L. (2017). Airborne fibers monitoring during railway tunnelling across a serpentinite lens (Voltri Massif, Italy). Congresso SIMP #43/2017. Plinius. ISSN 2038-1719. pp. 143 Abstract book
- Yus González A., Sanguineti E., Militello G.M. & Gaggero L. (2017). Airborne monitoring in tunnel excavation, a highly dusty environment with Elongated Minerals Particles (EMP). Congresso SIMP #43/2017. Plinius. ISSN 2038-1719. pp. 145 Abstract book.

Firenze (Italy), 2-4 September 2015 Congresso SIMP-SGI-So.Ge.I.-AIV 2015

Poster presentation

- Fiannacca P., Militello G. M., Lombardo R., Cirrincione R. (2015). I- and S-type granites in the late Variscan Serre Batholith (Central Calabria, Italy) and applicability of the Restite and Peritectic Assemblage Entrainment models. *Rend. Online Soc. Geol. It., Suppl. n.2 al Vol.35 (2015)*, pp.465.
- Fiannacca P., Lombardo R., Militello G. M., Cirrincione R. (2015). Insights on the relationships between felsic granitoids in the Serre Batholith (Calabria, southern Italy) from plagioclase microstructures and compositions. *Rend. Online Soc. Geol. It., Suppl. n. 2 al Vol. 35 (2015)*, pp. 150.

**ANALYTICAL WORK
AND LABORATORY
TRAINING**

- X-ray micro-tomography experiments at the Elettra Synchrotron Trieste, SYRMEP line. Trieste (Italy), 29-31 May 2019
- X-ray micro-tomography experiments at the Elettra Synchrotron Trieste, SYRMEP line. Trieste (Italy), 5-8 December 2017 (40 h)
- Sample preparation and Laser-Ablation ICP-MS analyses at the IGG-CNR in Pavia (Italy), December 2016

**ATTENDED
WORKSHOP**

- The 2nd EMU (European Mineralogical Union) school on mineral fibres – 2019 EMU school: Naturally occurring asbestos (NOA): from geological to medical aspects. Casale Monferrato (Alessandria, Italy) September 9-13, 2019
- The 2nd National Conference "diamond and colored gems: ancient and modern materials, advanced diagnostics, market news". June 27-28, 2019 Catania (Italy)
- Workshop (8 ore) dal titolo: "Microscopi giganti - Introduzione alle applicazioni delle grandi sorgenti". Associazione Italiana di Cristallografia. Università degli studi di Milano (Italy), 13 may 2019
- Corso breve. "Environmental Accounting" tenuto dal Prof. Sergio Ulgiati al Dipartimento di Chimica e Chimica Industriale. Genova (Italy), 6-7 may 2019
- International Short Course. Recalculations, graphical presentation and petrogenetic modelling of whole-rock geochemical data from igneous rocks using GCDkit/r. Catania (Italy), 24-27 september 2018
- Seminario del Dr. Martin Harper dal titolo "An American Perspective of Mineral Fibers in the Environment". Università degli studi di Modena e Reggio Emilia (Italy), 9 may 2018
- Mineralogical School of the National Mineralogical Group (GNM) and Italian Society of Mineralogy and Petrology (SIMP): "Physical properties of minerals: how and why to dive into their Knowledge". Bressanone (Italy), 12-15 February 2018
- 16 ore di attività didattiche integrative in aula per il corso: Introduzione alla Fisica dei Minerali (2CFU). Prof. Donato Belmonte. Genova (Italy), december 2018

- Referaggio articolo: Chiara Benedetta Cannata, Andrea Bloise, Rosanna De Rosa. "Outdoor fibres air pollution monitoring in the Crotona area (Southern Italy)" Journal of Mediterranean Earth Sciences
- Risk analysis of contaminated sites - New DPR excavated soils and rocks. Inter Provincial Order of the Chemists of Liguria. Genova (Italy), 8 June 2016.