

Yuri Galliano

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Born in Genoa (Italy), 30/09/1997

I. CURRENT OCCUPATION

Ph.D. student in Mineralogy (from 2022)

Research theme: Secondary phosphate minerals in cave environments

Supervisors: Cristina Carbone (University of Genoa), Fabio Bellatreccia (University Roma Tre).

Ph.D. Course in Sciences and Technologies for the Earth and Environment, Department of Earth, Environment and Life Sciences (DISTAV), University of Genoa, C.so Europa 16, 16132 Genoa, Italy.

Member of the X-ray Powder Diffraction Lab at DISTAV – head of lab: Prof. Cristina Carbone.

II. EDUCATION

Master of Science in Earth Sciences, University of Genoa, Genoa, Italy, *December 2019 - February 2022*

Thesis title and supervisors: **New data on the gold mineralization of the Lavagnina Lakes** - Prof. Roberto Cabella (University of Genoa) Prof. Cristina Carbone (University of Genoa), Prof. Federica Zaccarini (Montanuniversität Leoben), Prof. Donato Belmonte (University of Genoa) | GPA = 29.86/30

Bachelor of Science in Earth Sciences, University of Genoa, Genoa, Italy, *September 2016 - December 2019*

Thesis title and supervisors: **Geological and Structural Mapping in the metaophiolites of the Voltri Massif, Piancastagna area (Ponzone-AL)** – Prof. Laura Federico (University of Genoa), Prof. Laura Crispini (University of Genoa), Prof. Michele Piazza (University of Genoa) | GPA = 28.87/30

III. GRANTS

- Grant for participation: Summer School “Biominerals and Environment” – organized by the IMA Working Group on biominerals, Cagliari (IT), 5-8 September 2023. Provided by SIMP (Italian Society of Mineralogy and Petrology).

IV. PROFESSIONAL MEMBERSHIPS / ORGANIZATIONS

- Member of the Italian Society of Mineralogy and Petrology (SIMP - Società Italiana di Mineralogia e Petrologia) (from 2022).
- Member of the Italian Speleological Society (SSI – Società Speleologica Italiana) (from 2022).

V. PUBLICATIONS / PRESENTATIONS / ABSTRACTS

Publications

- Galliano, Y., Carbone, C., Balestra, V., Belmonte, D., & De Waele, J. (2022). Secondary Minerals from Minothem Environments in Fragnè Mine (Turin, Italy): Preliminary Results. *Minerals*, 12(8), 966. <https://doi.org/10.3390/min12080966>

Conference papers - Presentations

- Galliano Y. *, Bellatreccia F., Bruxelles L., De Waele J., Carbone C. (submitted) – Bat guano-derived hydroxylapatite: an overlooked testimony of past biological activity and a sink of metals in cave environments. *Conference paper. European Mineralogical Conference 2024 (Dublin, Ireland)*.
- Galliano Y. *, Bellatreccia F., Campomenosi N., Carbone C. (submitted) – A multi method, *in situ* temperature-dependent investigation of the taranakite-francoanellite phase transition. *Poster Presentation. European Mineralogical Conference 2024 (Dublin, Ireland)*.
- Galliano Y.*, Bellatreccia F. & Carbone C. (2023) - In situ temperature dependent investigation of natural taranakite from the Pollera Cave (Liguria, Italy). *Conference paper. The Geoscience paradigm: resources, risk and future perspectives (Potenza, Italy)*. <https://doi.org/10.3301/ABSGI.2023.02>
- Galliano Y.*, Carbone C. & Bellatreccia F. (2023) - Guano derived biominerals from the Pollera Cave (Liguria, Italy). *Conference paper. The Geoscience paradigm: resources, risk and future perspectives (Potenza, Italy)*. <https://doi.org/10.3301/ABSGI.2023.02>
- D'Angeli I.M., Galliano Y., Heil O., Dostern I. & Carbone C.* (2022) - Phosphate crusts from Herbtslabyrinth-Adventhöhle system, Germany: preliminarily results. *Conference paper. Geosciences for a sustainable future (Turin, Italy)*. <https://doi.org/10.3301/ABSGI.2022.02>
- Galliano Y., Boero M., Garbati P., Romeo F., Torella G., Vercelli V. & Cabella R. (2022). Two approaches of Teaching Innovation in Mineralogy in Genoa (Italy). *Conference paper. Geosciences for a sustainable future (Turin, Italy)*. <https://doi.org/10.3301/ABSGI.2022.02>

VI. SUBMITTED PROPOSALS

- Standard Research Proposal for beamtime at the European Synchrotron Radiation Source (ESRF) (Grenoble, France) – Galliano Y., Carbone C., Bellatreccia F., Meneghini C. (March 2024). Controls on metal mobility in cave environments : mechanisms of Zn incorporation in bat guano-derived hydroxylapatite. *BM23 – X-ray absorption spectroscopy*.

VII. EXPERIENCE AND SKILLS

- Optical microscopy – optical determination on thin and polished sections under transmitted and reflected polarized light.
- X-ray powder diffraction (XRPD) – experience with polycrystalline monophase and multiphase samples: techniques for sample preparation; instrumental setup; data collection; data treatment; phase identification; refinement methods; quantitative analysis
- Fourier Transform Infrared Spectroscopy (FTIR) – KBr pellet sample preparation method; data collection and processing; 2D correlation spectroscopy
- Raman Spectroscopy – data collection; data processing; peak-fitting methods
- General experience with bulk geochemical and microchemical data processing and analysis (ICP-OES and ICP-MS, XRF, SEM-EDS, EPMA-WDS).

I authorize the processing of my personal data in accordance with D.Lgs. 196/2003 and the General Data Protection Regulation (EU GDPR) 2016/679.

Signature

