

Riccardo Luppi

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● EDUCATION & TRAINING

27/11/2017 - 17/12/2020 - ROME, ITALY

BACHELOR'S DEGREE IN GEOLOGICAL SCIENCES- SAPIENZA UNIVERSITY OF ROME

Level in EQF: 6

23/11/2020 - 19/12/2022 - ROME, ITALY

MASTER'S DEGREE IN EXPLORATION GEOLOGY- SAPIENZA UNIVERSITY OF ROME

Final grade: 110 Cum Laude | Level in EQF: 7

01/11/2023 - Current - ROME, ITALY

PHD IN EARTH SCIENCES - SAPIENZA UNIVERSITY OF ROME

Level in EQF: 8

03/01/2021 - 29/09/2021 - ROME, ITALY

INTRODUCTORY TRAINING COURSE "SCIENCES OF SUSTAINABILITY"- FACULTY OF CIVIL AND INDUSTRIAL ENGINEERING, SAPIENZA UNIVERSITY OF ROME

01/03/2021 - 30/09/2021 - ROME, ITALY

MINERALOGY COLLABORATION SCHOLARSHIP- SAPIENZA UNIVERSITY OF ROME

Management of Mineralogy laboratory practicals for the degree courses in Geological Sciences, Environmental Sciences, and Natural Sciences.

01/03/2022 - 30/09/2022 - ROME, ITALY

MINERALOGY TUTORING SCHOLARSHIP- SAPIENZA UNIVERSITY OF ROME

Management of Mineralogy laboratory practicals for the degree course in Cultural Heritage.

27/03/2023 - 30/03/2023 - ONLINE

4TH INTERNATIONAL WORKSHOP ON EPMA- AGRICULTURAL UNIVERSITY OF ATHENS

21/06/2024 - 23/06/2024 - PERUGIA, ITALY

FAMELAB MASTERCLASS, INTERNATIONAL TRAINING WORKSHOP IN SCIENCE COMMUNICATION- FAMELAB, THE FIRST INTERNATIONAL SCIENCE COMMUNICATION TALENT COMPETITION FOR YOUNG RESEARCHERS.

04/11/2024 - 20/06/2025 - ROME, ITALY

SPECIALIZED COURSES ON SPECTROSCOPY, ANALYTICAL TECHNIQUES AND SCIENTIFIC WRITING - DEPARTMENT OF EARTH SCIENCES, SAPIENZA UNIVERSITY OF ROME

03/02/2025 - 22/02/2025 - STOCKHOLM, SWEDEN

TRAINING AND ANALYTICAL WORK USING OPTICAL ABSORPTION AND INFRARED

SPECTROSCOPIC TECHNIQUES- SWEDISH MUSEUM OF NATURAL HISTORY

01/04/2025 - 30/06/2025 - ROME, ITALY

TUTORING AND SUPERVISION OF MINERALOGY LABORATORY PRACTICALS- SAPIENZA UNIVERSITY OF ROME

Management of Mineralogy laboratory practicals for the degree courses in Cultural Heritage and Natural Sciences.

05/01/2026 - Current - ROME, ITALY

COLLABORATION IN THE MANAGEMENT OF THE MÖSSBAUER SPECTROSCOPY LABORATORY- DEPARTMENT OF EARTH SCIENCES, SAPIENZA UNIVERSITY OF ROME

06/03/2026 - Current - ROME, ITALY

TUTORING AND SUPERVISION OF MINERALOGY LABORATORY PRACTICALS- SAPIENZA UNIVERSITY OF ROME

Management of Mineralogy laboratory practicals for the degree courses in Cultural Heritage and Natural Sciences

● CONFERENCES & SEMINARS

22/01/2024 - 23/01/2024 Sapienza University of Rome (Italy)

"Roma chiama Roma" Conference for PhD Students in Earth Sciences Poster presentation, title: *Study of color mechanisms in natural and treated gemstone tourmalines, with definition of a scientific protocol.*

25/07/2024 - 29/07/2024 New Jersey (USA)

Mozambique Mining LLC and Fine Minerals International Oral presentation of the results obtained from the heat treatment of Cu-bearing tourmalines (Paraíba variety) provided by Mozambique Mining.

18/08/2024 - 24/08/2024 Trinity College Dublin (Ireland).

European Mineralogical Conference (EMC) Poster presentation, title: *Study of color mechanisms in natural and treated elbaite crystals*

04/02/2025 - 05/02/2025 Sapienza University of Rome (Italy)

PhD Workshop in Earth Sciences Oral presentation, title: *Study of color mechanisms in natural and treated gemstone tourmalines, with definition of a scientific protocol.*

15/06/2025 - 18/06/2025 Real Museo Mineralogico of Naples (Italy)

7th edition of National Conference on Gemology Oral presentation, title: *Looking for Neon Blue in tourmaline: The Impact of Heat Treatment on Paraíba samples from Mozambique.*

12/07/2025 - 23/07/2025 Hôtel des Thermes, Antsirabe (Madagascar)

4th International Conference on Tourmaline (TUR2025) Oral presentation (Invited Speaker - Keynote), title: *Heat Treatment of Paraíba tourmalines from Mozambique: a study of color changes.*

16/09/2025 - 18/09/2025 Padova Congress (Italy)

Joint Congress of SIMP and SGI Oral presentation, title: *Color mechanisms in natural and heated Paraíba tourmalines from Mozambique.*

04/02/2026 - 04/02/2026 Roma Tre University (Italy)

"Roma chiama Roma" Conference for PhD Students in Earth Sciences Oral presentation, title: *From*

● PUBLICATIONS

Thermal treatment of the tourmaline Ferich princivalleite $\text{Na}(\text{Mn}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$

Altieri, Alessandra; Luppi, Riccardo; Skogby, Henrik; Hålenius, Ulf; Tempesta, Gioacchino; Pezzotta, Federico; Bosi, Ferdinando. - In: PHYSICS AND CHEMISTRY OF MINERALS. - ISSN 1432-2021. - 50:4(2023). [10.1007/s00269-023-01250-9].

Study of color mechanisms in natural and treated elbaite crystals

Luppi R., Pezzotta F., Skogby H., Hålenius U., Tempesta G., Vadrucci M., Sejkora J. and Bosi F. - In: abstract book on Mineralogical Society of the UK and Ireland - (2024), pp. 337-337. (Abstract published in the proceedings of the 4th EMC).

IMA 24-A: definition of the neotype material for elbaite on IMA Commission (CNMNC)

Bosi F., Pezzotta F., Skogby H., Altieri A., Ballirano P., Luppi R., Hålenius U., Tempesta G., Agrosi G., and Sejkora J. - Newsletter 80 In: EUROPEAN JOURNAL OF MINERALOGY. - ISSN 1617-4011. - 36:4(2024), pp. 604. [10.5194/ejm-36-599-2024].

Elbaite, the neotype material from the Rosina pegmatite, San Piero in Campo, Elba island, Italy

Bosi F., Pezzotta F., Skogby H., Altieri A., Ballirano P., Luppi R., Hålenius U., Tempesta G., Agrosi G., and Sejkora J. - In: EUROPEAN JOURNAL OF MINERALOGY. - ISSN 1617-4011. - 37:4(2025), pp. 505-516. [10.5194/ejm-37-505-2025].

Looking for Neon Blue in tourmaline: The Impact of Heat Treatment on Paraíba samples, Mozambique

Luppi, Riccardo; Pezzotta, Federico; Skogby, Henrik; Andreozzi, Giovanni Battista; Bosi, Ferdinando. - In: Italian Journal of Gemology (2025). (Abstract published in the proceedings of the National Conference on Gemology).

Heat Treatment of Paraíba tourmalines from Mozambique: a study of color changes

Luppi, Riccardo; Pezzotta, Federico; Skogby, Henrik; Bosi, Ferdinando. - In: Journal of Geosciences - ISSN: 1802-6222 - (2025). (Abstract published in the proceedings of the 4th International Conference on Tourmaline).

Color mechanisms in natural and heated Paraíba tourmalines from Mozambique

Luppi, Riccardo; Pezzotta, Federico; Skogby, Henrik; Bosi, Ferdinando. - In: abstract book of the Italian Geological Society - (2025), pp. 148-148. (Abstract published in the proceedings of the Joint Congress of SIMP and SGI).

Diamond and colored stones: National conference of gemology - VII edition

Luppi, Riccardo; Minieri, Paolo; Langella, Alessio. - In: ELEMENTS. - ISSN 1811-5209. - (2025), pp. 374-374. .

Redox-induced color changes in Mn-bearing elbaite after electron irradiation and thermal treatments

Luppi, Riccardo; Skogby, Henrik; Hålenius, Ulf; Di Benedetto, Francesco; Tempesta, Gioacchino; Vadrucci, Monia; Agrosi, Giovanna; Sejkora, Jiří; Pezzotta, Federico; Bosi, Ferdinando. - In: AMERICAN MINERALOGIST - 10085R accepted, in press (2026).

From multicolored to Paraíba: the role of Mn in heat-induced color change in Cu-bearing tourmalines

Luppi, Riccardo; Skogby, Henrik; Pezzotta, Federico; Hålenius, Ulf; Di Benedetto, Francesco; Zoleo, Alfonso; Bosi, Ferdinando. - In: JOURNAL OF GEOSCIENCES, under revision (minor revision) - (2026) .

● PROJECTS

Origin of Unusual Colors in Tourmaline Participation in a Funded Research Project, Sapienza University of Rome, Supervisor: prof. Ferdinando Bosi.

Green-Z: Utilizing Zeolites for the Sustainable Recovery of Rare Earth Elements Participation in a Medium Research Project, Sapienza University of Rome, Supervisor: prof. Giorgia Confalonieri

15/12/2025 - 31/01/2028

From natural to enhanced: color mechanisms in Mozambican Paraíba blue Tourmalines. Type 1 Early-Stage Research Project, Sapienza University of Rome, Supervisor: Dr. Riccardo Luppi

● **WORK EXPERIENCE**

19/01/2023 - 18/04/2023 - BOSCO MARENGO (AL), ITALY, ITALY

SITE SUPERVISOR (FIELD GEOLOGIST) PERFOR SRL – FORMER NUCLEAR FUEL FABRICATION PLANT

Supervision of the construction of piezometers and injection clusters for groundwater monitoring and for the implementation of the pilot project for the Operational Safety Remediation of PCE contamination at the Bosco Marengo (AL) site.

24/05/2023 - 31/10/2023 - PIOLTELLO (MI) , ITALY

PRODUCTION LINE MANAGER MINERALOGICAL COLLECTION PROFESSIONALS - M.C.P SRL

Management of the heat treatment laboratory.

Management of the gemological laboratory.

Cleaning and restoration of minerals from museum institutions and international private collections.

● **HONOURS AND AWARDS**

09/04/2024 FameLab, the first international science communication talent competition for young researchers.
Regional winner for Lazio of FameLab Italy

27/10/2024 FameLab, the first international science communication talent competition for young researchers.
National finalist of FameLab Italy

03/02/2025 Rivista Mineralogica Italiana – Gruppo Mineralogico Lombardo (RMI-GML).
Lazio Representative of the Italian Mineralogical Magazine

03/06/2025 Italian Society of Mineralogy and Petrology (SIMP).
SIMP Grant (Registration Fee Award, SIMP-SGI 2025 Congress)

● **STATEMENT FOR PUBLICATION**

Curriculum Vitae prepared for publication in accordance with Article 26 of Legislative Decree No. 33/2013.
