

**PERSONAL INFORMATION**      Giovanna Antonella DINO

**WORK EXPERIENCES**

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- 01.10.2021 – in progress      **Researcher (Professor Assistant) in Applied Geology**  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
The research activity focuses on sustainable and responsible mining, circular economy strategies, and the application of natural stone in cultural heritage contexts.  
The candidate manages and further develops the **Mineral Processing and Sampling Laboratory**, ensuring methodological innovation, quality assurance, and technical support for research and industry stakeholders.  
Scientific production includes publications in peer-reviewed journals of international repute and contributions to national and international conference proceedings (see [Annex 1](#)). The candidate actively contributes to the scientific community as Speaker, session chair/co-chair, and member of organizing and scientific committees at national and international conferences (see [Annex 2](#)).  
She has been and is still involved in the drafting, technical implementation, and coordination of national and international research projects, contributing to proposal preparation, work package implementation, reporting, and dissemination activities (see [Annex 3](#)).  
In addition to research activities, the candidate contributes to higher education and capacity building through teaching and tutoring in rock and soil characterization, quarrying and mining management (from extraction to mineral processing), environmental rehabilitation, circular economy and landfill mining in the extractive sector, sustainable mining practices, reclamation of degraded lands, management of excavation materials, and promotion and conservation of heritage stones (see [Annex 4](#)).  
**Main scientific sectors:** Applied geology; Environmental Geo-engineering.
- 01.11.2018 – 24.07.2024      **Member of the Board of Directors**  
Soc. CIDIU s.p.a. (<https://www.cidiu.to.it/EN/>)  
Via Torino, 9 – 10093 Collegno (TO)  
CIDIU S.p.A. is a public company that operates in the environmental services sector, taking care of all aspects of waste cycle management: collection, treatment, disposal, recycling, energy recovery. The area interested by CIDIU activity includes the following Municipalities: Alpignano, Buttigliera Alta, Coazze, Collegno, Druento, Giaveno, Grugliasco, Pianezza, Reano, Rivoli, Rosta, Sangano, San Gillio, Trana, Valgioie, Venaria Reale e Villarbasse (about 260.000 inhabitants in total).  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 09.12.2008 – 30.09.2021      **Research Assistant (Research Technician)**  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
As Research Assistant, the candidate conducted independent and collaborative research in quarrying and mining geo-engineering, with a focus on rock geomechanics, in-situ testing, mineral processing, and representative sampling. She managed and developed two research laboratories (*Rock Geomechanical Characterization and In-Situ Testing* – from 2009 to 2013; *Mineral Processing and Sampling* – from 2013 till September 2021) and contributed to the preparation, implementation, and coordination of national and international research projects. Her activity includes peer-reviewed publications, presentations at international and national conferences, and technology transfer initiatives fostering collaboration between academia and industry within multidisciplinary frameworks.  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 06.11.2008-05.12.2008      **Freelance employee dealing with the management and recovery of extractive waste and rocks and soils from**

**excavation works**

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Scientific Responsible: Prof. Mauro Fornaro

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.12.2007-31.10.2008

**Research fellow**

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Title of the research: “Study and valorisation of the heritage stones in the Western Alps: from quarry sites to historical buildings. Study of quarrying and processing techniques”.

Scientific Responsible: Prof. Mauro Fornaro

*N.B. 6 months’ research fellowship grant, suspended 5 months for maternity.*

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.12.2005-30.11.2007

**Research fellow**

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Title of the research: “Study and valorization of the heritage stones in the Verbano Cusio Ossola and Canton Ticino quarrying basins: from quarry sites to historical buildings. Study of quarrying and processing techniques”.

Scientific Responsible: Prof. Mauro Fornaro

Decree (at UNITO) n. 4513. 27.09.2005

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.02.2005-31.10.2005

**Scholarship Fellow**

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

Title of the research: “Dressing activities and eco-friendly recoveries of the excavation waste coming from extractive and building industry”.

Scientific Responsible: Prof. Mauro Fornaro

Call n. 3/2004, published on 16.12.2004.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.02.2004-31.01.2005

**Scholarship Fellow**

Department of Environment, Land and Infrastructure Engineering (DIATI; ex DIGET) – Polytechnic of Torino

Corso Duca degli Abruzzi, 24 – Torino

Title of the research: “Exploitation of residual sludge coming from dimension stone working activities”.

Scientific Responsible: Prof. Renato Mancini

Decree (at POLITO) n. 268.I 03.12.2003.

**Main scientific sectors:** Environmental geo-engineering.

- 01.01.2001-31.12.2003 **Scholarship Fellow**  
Department of Environment, Land and Infrastructure Engineering (DIATI; ex DIGET) – Polytechnic of Torino  
Corso Duca degli Abruzzi, 24 – Torino  
Ministerial scholarship grant (16th cycle - PhD in Environmental Geoengineering).  
PhD tutor: Prof. Mauro Fornaro  
**Main scientific sectors:** Environmental geo-engineering.

## EDUCATIONAL AND TRAINING

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- 03.06.2004 **PhD – Environmental Geoengineering**  
Department of Environment, Land and Infrastructure Engineering (DIATI, ex DIGET) – Polytechnic of Torino  
Corso Duca degli Abruzzi, 24 – Torino  
**Tutor:** Prof. Mauro Fornaro  
**Title of the PhD thesis:** The management of the extractive waste.  
**Main Subjects:** excavation and mining engineering; Environmental Impact Assessment (water, soil, and air matrices); quarrying and environmental rehabilitation; mineral processing; secondary raw materials exploitation; ore deposit investigation; raw material characterization and product certification.  
**Key Skills:** development and implementation of competitive research proposals; technical and scientific reporting; preparation of peer-reviewed publications (English and Italian); presentation of research results at national and international conferences; in-situ and laboratory sampling; physical and technical characterization of rocks and soils (field and laboratory scale); data processing and analysis.
- 24.05.2000 **Graduated in Environmental and Land management engineering – georesources (quarry and mine industry). Evaluation: 103/110**  
Department of Environment, Land and Infrastructure Engineering (DIATI, ex DIGET) – Polytechnic of Torino  
Corso Duca degli Abruzzi, 24 – Torino  
**Tutors:** Prof. Franco Rodeghiero. Co-Tutors: Proff. Mauro Fornaro, Riccardo Sandrone, Maria Chiara Zanetti.  
**Title of the Degree Thesis:** Problems connected to ore deposit investigation and extractive activity in the Monte Bracco (CN) area.  
**Main Subjects:** geotechnical characterization of materials; geology and lithology; ore deposit investigation; mining facilities; geochemistry; quarrying and environmental rehabilitation; health, safety and environmental protection; risk analysis; topography; mineralogy and petrography; geophysics; fundamentals of road construction; hydraulics and groundwater mechanics; industrial minerals.  
**Key Skills:** preparation of technical and scientific reports; in-situ sampling activities; physical and technical characterization of rocks and soils (field and laboratory scale); data processing and analysis.

## OTHER EXPERIENCES

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- A.Y. 2022- in progress **Member of the scientific committee and teacher at the master “Green Manager” (<https://www.mastergreenmanager.it/>)**  
The Master in Green & Sustainability Management, proposed in apprenticeship mode, is a two-year Master's Degree at the University of Torino, based on the recruitment of professionals carried out by private and public companies. The master aims to provide specialized training of professionals who can work in synergy with staff and top management bodies to promote the green transition of Italian companies and multinationals.  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- March 2023 – in progress **Member of the Scientific Committee of the SinTESI-lab. Integrated experimental laboratory for sustainable technological innovation (<https://www.sintesilab.polito.it>). SintesiLab aims to contribute to the training of a**

conscious and proactive historical engineering culture, which is necessary to promote an effective dialogue between complementary cultures, in terms of critical knowledge, and a prerequisite for the innovation project. The main objective of SinTESI-lab is providing advanced and integrated skills in multiple fields of interest for private companies, research centers, universities, local entities, etc.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

24.01.2019 – 24.06.2019 External technical expert for the Technical Expert Group – Sustainable Finance

Selected to participate, as an external expert, in the working group which, on the behalf of the EC, is in charge of implementing the European Commission's Sustainable Finance Action Plan. Selected as expert in the field of circular economy and sustainable mining. The activity concerned weekly virtual meetings and a final workshop.

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

02.03.2018- 02.04.2019 Collaboration with the JRC – ISPRA

The collaboration was aimed at writing a chapter relating to a Case History, for the EU *Science for Policy Report*, titled: "*Recovery of critical and other raw materials from mining waste and landfills*". By Blengini, G., Mathieux, F., Mancini, L., Nyberg, M., Cavaco Viegas, H., Salminen, J., Garbarino, E., Orveillon, G., Saveyn, H., Mateos Aquilino, V., Llorens González, T., García Polonio, F., Horckmans, L., D'hugues, P., Balomenos, E., **Dino, G.**, De La Feld, M., Mádaí, F., Földessy, J., Mucsi, G., Gombkötő, I., Calleja I., 2019. EUR - Scientific and Technical Research Reports. Publications Office of the European Union. ISBN. 978-92-76-03391-2 (online),978-92-76-03415-5 (print); ISSN 1831-9424 (online),1018-5593 (print); DOI: 10.2760/494020 (online) 10.2760/700398 (print).

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

01.01.2014 – in progress Editor, guest editor and peer-review activities for scientific publications

Earth Sciences Department – University of Torino

Via Valperga Caluso, 35 – 10125 Torino

**Peer-review:** Journal of Cleaner Production; Construction Building Materials; Resources Policy; Environmental Earth Sciences; Geological Society of London Special Publication; Science of the Total Environment (STOTEN); Structural Concrete; Resources, Conservation & Recycling; Minerals; Geoh heritage; Mining; Environmental Science and Pollution Research; Structure and Infrastructure Engineering.

**Editor:**

Member of the editorial board of *Mining* (ISSN 2673-6489, MPDI). ([Mining | An Open Access Journal from MDPI](#)) (Period: December 2022 – in progress).

Member of the Editorial Board of Pangea (on-line journal – <https://www.geam.org/pangea-introduzione.php>). (Period: November 2018 – April 2023).

Guest Editor for *Geosciences* (ISSN 2076-3263, MDPI), Special Issue: "Geosciences, Development and Sustainability: Africa and Europe Together" (Period: June 2025 – in progress). The Special Issue constitutes an official dissemination output of the GEODES Project (WP9 – Dissemination).

Guest Editor for the Special Issue "Sustainable Recycling and Reuse of Industrial By-Products or Waste from Geo-Resource Exploitation". ([Sustainable Recycling and Reuse of Industrial By-Products or Waste from Geo-Resource Exploitation \(mdpi.com\)](#)) (Period: from November 2023 – in progress)

Guest Editor for *Mining* (ISSN 2673-6489, MPDI). Special Issue "Women's Special Issue Series: Mining" ([Mining | Special Issue : Women's Special Issue Series: Mining \(mdpi.com\)](#)) (Period: 31.03.2022 - 2025)

Guest Editor for *Resources Policy* (ISSN: 0301-4207, Elsevier). Special Issue "Natural Stones and Cultural Heritage promotion and preservation". ([VSI about "Natural Stones and Cultural Heritage promotion and preservation" - Call for Papers - Elsevier](#)) (Period: 24.02.2021 – 30.09.2022).

Guest Editor for *Sustainability* (ISSN: 2071-1050, MPDI. Open access). Special Issue "New Environmental, Economic and Social Challenges for Raw Materials Supply: Sustainable Mining and Extractive Waste Exploitation".

([https://www.mdpi.com/journal/sustainability/special\\_issues/Sustainable\\_Mining](https://www.mdpi.com/journal/sustainability/special_issues/Sustainable_Mining)) (Period: from 28.04.2020 – 31.01.2022).

Guest Editor for *Sustainability* (ISSN: 2071-1050, MPDI. Open access). Special Issue "Natural Stone and

Architectural Heritage” (<https://www.mdpi.com/books/pdfview/book/1560>) (Period: from 01.04.2019 to 30.09.2019).

Guest Editor for “Science of the Total Environment” (ISSN: 0048-9697, Elsevier). Special Issue “Remediation and land management- research meets practise”. ([STOTEN | Science of The Total Environment | Remediation and land management: research meets practice | ScienceDirect.com by Elsevier](https://www.sciencedirect.com/journal/science-of-the-total-environment/special-issue/S0167636918300013)) (Period: from 09.02.2018 to 13.12.2019).

Guest editor for *Resources Policy* (ISSN: 0301-4207, Elsevier). Special Issue “Sustainable management and exploitation of extractive waste: towards a more efficient resource preservation and waste recycling”.

(<https://www.sciencedirect.com/journal/resources-policy/vol/59>) (Period: from 31.08.2017 to 31.12.2018).

Member of the Coordination Board of GEAM ([Associazione Georisorse e Ambiente \(geam.org\)](http://www.geam.org)).

**Main scientific sectors:** Applied geology, Environmental geo-engineering.

- 01.10.2023 – in progress    Scientific responsible of the “Mineral Processing and Sampling” Laboratory  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 01.10.2013 – 30.09.2021    Technical responsible of the “Mineral Processing and Sampling” Laboratory  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
Activities related to geo-engineering and mineral dressing, such as: characterization of aggregates and dimension stones; characterization of raw materials and secondary raw materials; dressing activities (size, densimetric, magnetic, etc... separation); production of representative samples (from rocks and soils) for geochemical, physical-technical and environmental characterization.  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 01.07.2013 – 30.09.2022    Cooperation with ESAIP (graduate school for engineers. St. Barthelemy d’Anjou Cedex – France) for the courses «Safety, Environment and Risk Management».  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
The collaboration deals with research and knowledge transfer on topics related to: circular economy and landfill mining in extractive industry; sustainable mining.  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 01.01.2009-31.12.2015    UNITO Representative in the scientific committee of the *Centro Servizi Lapideo del Verbano Cusio Ossola S.c.p.a.* (<http://www.csl-vco.it/pub/>)  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
**Main scientific sectors:** Applied geology, Environmental geo-engineering.
- 01.01.2009-30.09-2013    Technical responsible of the “Rock Geomechanical Characterization and In-Situ Testing” laboratory.  
Earth Sciences Department – University of Torino  
Via Valperga Caluso, 35 – 10125 Torino  
**Main scientific sectors:** Environmental geo-engineering, Applied geology.

01.12.2005-30.11.2006 Freelance cooperation with the Research Center for the Craftsmanship of the Piemonte Region.  
 Title of the project: "The stone industry in the Piemonte Region: production, supply chain organization and market positioning concerning the extractive activities. Production chain in the Verbano Cusio Ossola quarry basin".  
 Main scientific sectors: Environmental geo-engineering.

**PERSONAL SKILLS AND COMPETENCES**

Native speaker Italian

Other languages (European level)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B1	A2	A2	A2

**SOCIAL SKILLS AND COMPETENCES**

Social skills: good communication skills, acquired during the dissemination activities of past and ongoing research (conferences, congresses, national and international meetings), during teaching experiences both at university (bachelor, master and PhD courses) and at primary and secondary schools, and thanks to the experiences as children's and teens' entertainer at local level (L'Alvere Association) and as entertainer and leader at international level (International youth exchanges organized by the Municipality of Torino).

**ORGANISATIONAL SKILLS AND COMPETENCES**

High standard in coordination and organisation activities thanks to the experiences as:

- Project Manager, principal investigator and participant in international and national projects;
- Chairperson and Member of Scientific and/or Organizing Committees for several national and international conferences;
- Member of the board of director – Soc. CIDIU spa;
- Editor of Mining journal, Editor of Pangea online Journal, member of the Coordination Board of GEAM and Guest editor for Sustainability, Resources Policy, STOTEN, Mining and Frontiers in Earth Sciences, Mining.

**TECHNICAL SKILLS AND COMPETENCES**

- Training course research and entrepreneurship: new paths for enterprises valorisation. organized by 2i3T (Incubatore Imprese – UNITO). (24 hours. Period: 25.01.2024-22.02.2024).
- National Scientific Qualification (Idoneity) as **Associate Professorship in Applied Geology** from September 2023.
- Training course IRIDI START - edition 5, organised by UNITO. Quality teaching in presence and remotely, evaluation and inclusion. (21 hours. Period: April-July 2022).
- National Scientific Qualification (Idoneity) as **Associate Professorship in Geochemistry, mineralogy, petrography, volcanology, georesources and application** from June 2021.
- National Scientific Qualification (Idoneity) as **Associate Professorship in Raw Materials Engineering** (mining

engineering) from January 2021.

- Field activities for ore deposits', waste facilities' and landfills' investigation and volume estimation; sampling activity on different matrixes (rocks, soils, water).
- Laboratory skills concerning sampling, characterization, mineral processing, environmental impacts evaluation, etc.
- License for explosive management (electric and fire shooting): November, 2007 - July 2018.
- Expert in "Applied Geology" - Faculty of Geological Sciences, University of Torino. October 2005-October 2012.
- Expert in "Mineral processing" - Polytechnic of Torino. October 2002-October 2005.
- Technical qualification as expert in "Environment, Energy and Safety" (Evaluation: 99/100); 1000 hours course held at ENFAP, C.so Svizzera 30, promoted by Regione Piemonte. July 2001.
- Qualification to practice as an engineer, obtained at the Polytechnic of Torino (2nd session 2000).

COMPUTER SKILLS AND COMPETENCES

Information processing	Communication	Contents creation	Security	Problem solving
Advanced user	Advanced user	Intermediate user	Intermediate user	Intermediate user

DRIVING LICENSE

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FURTHER INFORMATION

Scientific publications

118 scientific papers on indexed journals and proceedings (See [Annex 1](#))

Oral Presentations and chairs

73 activities as Speaker, Scientific Session Chair or Co-Chair, and member of Scientific or Organizing Committees. (See [Annex 2](#))

Projects

PI and/or research activities in 25 national and international projects. PI and/or research activities in 35 partnerships, framework agreements, and expert consultancy activities. (See [Annex 3](#)).

Conferences

Several conferences attended as Speaker, chair and poster presentation. Only the conferences attended as Speaker and chair are reported in [Annex 2](#).

Groups or associations

Member of the ICESP (Italian Circular Economy Stakeholder Platform) (from July 2025)  
 Member of CRIET (Centro di Ricerca Interuniversitario Economia del Territorio) (from June 2024)  
 Member of the group supporting the National MIMIT-MASE table (formerly MISE-MITE) which discuss about challenges and potentialities connected to critical raw materials supply (at Italian level) (from 2022)  
 Member of the SGI (Società Geologica Italiana) (from June 2021)  
 Member of the Heritage Stone working group (from 2014)  
 Member of CISAO – Interdepartmental Center in UNITO for research and technical-scientific cooperation with Africa) ([www.cisao.unito.it](http://www.cisao.unito.it)) (from 2012)  
 Member of ANIM – National Association for Mining Engineers (from 2001)  
 Member of GEAM – Geomining association (from 1996) and Member of the Coordination Board from October 2021.

Working groups at UNITO level

Member of the Energy Transition Platform – UNITO (Dec 2025– in progress)  
 Member of the UNITO Coordination Group for the KM BLU Project (Dec 2025–in progress)  
 Social Media Manager, Department of Earth Sciences (Apr 2025– in preogress)

Member of the Departmental Laboratory Committee (Oct 2024– in progress)

Member of the Departmental Space Committee, responsible for offices and laboratories (Oct 2024–in progress).

Member of the Departmental Research Committee (2021–2024; previously 2012–2021 as technical staff representative)

Member of the Department Council (2021–in progress; previously 2011–2021 as technical staff representative).

Technical contact for UNITO SUA-RD reporting (2014–2020)

Departmental SPOKE for European project design (2011–2018)

Departmental manager for SISTRI (waste tracking system) (2010–2013).

Scientific Representative for UNITO within the Technical Committee of the “*Centro Servizi Lapideo del VCO*” (2009–2015), supporting product qualification, certification, technological innovation, and environmental testing in the stone and construction sectors.

Scopus metrix overview

H-Index: 18; n of papers: 65; citation index: 860 (consulted on 02.04.2026)

Google scholar link

(Publication Proof)

[Giovanna Antonella Dino - Google Scholar](#)

Scopus link

(Publication Proof)

[Dino, Giovanna Antonella - Author details - Scopus](#)

Linkedin link

(Publication Proof)

[\(72\) Giovanna Antonella Dino | LinkedIn](#)

Researchgate link

(Publication Proof)

[Giovanna Antonella Dino \(researchgate.net\)](#)

ORCID

[0000-0002-1577-0337](#)

Institute ID Link/Upload/Number

(Working Proof)

[Ing. Giovanna Antonella Dino - Dipartimento di Scienze della Terra - Università degli Studi di Torino \(unito.it\)](#)

Courses

Several training courses about: waste management, circular economy, environmental impacts associated to waste management and to extractive industry, quarrying and mining activities, sustainable mining, heritage stones preservation and promotion, European policy, projecting training (for FP7, H2020 and Horizon Europe), etc... have been attended from 2001 (not reported in detail).

LIST OF ANNEXES

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- **Annex 1:** scientific publications
- **Annex 2:** oral presentations and chairs
- **Annex 3:** projects
- **Annex 4:** Academic Appointments and Teaching Experience

## ANNEX 1 – SCIENTIFIC PUBLICATION

## PAPERS ON INTERNATIONAL JOURNALS

1. Baradaran Kazemian, P., Gentile, G., **Dino, G.A.**, Baricco, M., 2025. Legislative strategies for battery management toward the circular economy: a comparative study of Germany, the Netherlands, Italy, and Armenia. *Sustainable Energy Technologies and Assessments* 84:104698. ISSN 2213-1388, <https://doi.org/10.1016/j.seta.2025.104698>.
2. Casale, M., Oggeri, C., Rossi, P., **Dino, G.A.**, 2025. Performance assessment of recycled aggregates from C&DW plants for road embankments: Influence of composition and treatment methods. *Results in Engineering*. 28: 107340. ISSN 2590-1230. <https://doi.org/10.1016/j.rineng.2025.107340>.
3. Zhao, X., Yang, K., **Dino, G.A.**, Li, X., He, X., Chi, X., Zhang, L., 2025. Review on coal gasification slag (CGS) for green cemented backfill in mines: activation method, performance influencing mechanism and environmental benefit. *Journal of Cleaner Production*. 525: 146582. ISSN 0959-6526. <https://doi.org/10.1016/j.jclepro.2025.146582>.
4. Casale, M., **Dino, G.A.**, Oggeri, C., 2025. Pullout testing of recycled construction and demolition waste aggregates in full-scale geogrid-reinforced embankments. *Transportation Geotechnics*. 54: 101638. ISSN 2214-3912. <https://doi.org/10.1016/j.tgeo.2025.101638>. (<https://www.sciencedirect.com/science/article/pii/S2214391225001576>)
5. Wang, Z, Wang, Y, Wu, A., Zhang, L., Ruan, Z., Li, J., **Dino, G. A.**, 2025. Mitigating natural aging in hemihydrate phospho-calcium sulfate with sodium tripolyphosphate: Sustaining long-term cementitious performance. *Construction and Building Materials*. 48715; article number 142156. ISSN: 09500618; DOI: 10.1016/j.conbuildmat.2025.142156.
6. Khelifi, F., Zhao, X., **Dino, G.A.**, Padoan, E., 2025. Quality assessment of new constructed technosols: Key findings on their biogeochemical and environmental characteristics. *Journal of Hazardous Materials*. 4895: article number 137571. ISSN: 03043894; DOI: 10.1016/j.jhazmat.2025.137571.
7. Casale, M., **Dino, G.A.**, Oggeri, C., 2025. Blasting of Unstable Rock Elements on Steep Slopes. *Applied Sciences*. 15(2): article number 712. ISSN 20763417; DOI: 10.3390/app15020712.
8. Wang, Z., Wang, Y., **Dino, G.A.**, Zhang, L., Ruan, Z., Zhang, M., Li, J., Wu, A., 2025. Degradation of hemihydrate phosphogypsum-based backfill in underground mining: Mechanical and microstructural insights on the effects of pH and temperature of mine water. *Process Safety and Environmental Protection*. 193:272 - 285
9. Wang, Z., Wang, Y., Liu, Q., **Dino, G.A.**, Ruan, Z., Wu, Z., 2024. Impact of weak interlayer characteristics on the mechanical behaviour and failure modes of cemented tailings backfill: A study on thickness, strength, and dip angle. *Engineering Failure Analysis*, 165:108795. ISSN 1350-6307. <https://doi.org/10.1016/j.engfailanal.2024.108795>.
10. Casale, M., Gambino, F., Borghi, A., Beltramo, R., Vesce, E., Vari, C., Giardino, M., **Dino, G.A.**, 2024. A sustainable integration of mining activity in a tourist mountain territory: The case of Germanasca Valley. *Resources Policy*, 98:105312. <https://doi.org/10.1016/j.resourpol.2024.105312>.
11. Zhao, X., Khelifi, F., Casale, M., Cavallo, A., Padoan, E., Yang, K., **Dino G.A.**, 2024. Critical raw materials supply: challenges and potentialities to exploit REEs from siliceous stones and extractive waste. *Resources*, 13(7):97; <https://doi.org/10.3390/resources13070097>.
12. Storta, E., Barale, L., Borghi, A., d'Atri, A., **Dino, G.A.**, Gambino, F., Martire, L., Perotti, L., Piana, F., Acquarone, A., Sassone, P., Senesi, M., Mallen, L., Morelli, M., Nicolò, G., 2024. The Database of the Ornamental Stones of Piemonte (NW Italy) Hosted on a WebGIS Service. *Geoheritage*, 16:73. <https://doi.org/10.1007/s12371-024-00980-8>
13. Mancini, S., Gambino, F., **Dino, G.A.**, 2024. Georesources in Cultural Heritage: the Mg/Ca Ratio in Lime as a Marker of Variations in the Exploitation of Lime Stones in the Vercelli Area (Piemonte, Italy) over the Centuries. *Geoheritage*, 16(3):70. <https://doi.org/10.1007/s12371-024-00972-8>
14. Tazzini, A., Gambino, F., Casale, M., **Dino, G.A.**, 2024. Managing Marble Quarry Waste: Opportunities and Challenges for Circular Economy Implementation. *Sustainability*, 16:3056. <https://doi.org/10.3390/su16073056>
15. Mancini, S., Casale, M., Tazzini, A., **Dino, G.A.**, 2024. Use and Recovery of Extractive Waste and Tailings for Sustainable Raw Materials Supply. *Mining*, 4:149-167. <https://doi.org/10.3390/mining4010010>
16. Zhao, X., Yang, K., **Dino, G.A.**, He, X., Wei, Z., Zhang, J., 2024. Feasibility and challenges of multi-source coal-based solid waste (CSW) for underground backfilling – A case Study. *Process Safety and Environmental Protection*, 181:8-25. Ed. Institution of Chemical Engineers. ISSN 09575820. <https://doi.org/10.1016/j.psep.2023.11.013>.
17. Mancini, S., Casale, M., Rossi, P., Faraudello, A., **Dino, G.A.**, 2023. Operative instruments to support public authorities and industries for the supply of raw materials: A decision support tool to evaluate the sustainable exploitation of extractive waste facilities. *Resources Policy*, 81:103338. ISSN 0301-4207. <https://doi.org/10.1016/j.resourpol.2023.103338>.
18. Castro, N., Becerra, J.E., Bellopede, R., Marini, R., **Dino, G.A.**, 2022. Introduction to 'natural stones and cultural heritage promotion and preservation'. *Resources Policy*, 78:102775. ISSN 0301-4207. <https://doi.org/10.1016/j.resourpol.2022.102775>. (<https://www.sciencedirect.com/science/article/pii/S0301420722002239>)
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#### PAPERS ON ITALIAN JOURNALS AND BOOK CHAPTERS

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#### INTERNATIONAL CONGRESSES' PROCEEDINGS

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2. Särkkä, H., Kaartinen, T., Hannus, E., Hirvonen, S., Valjus, T., Lerssi, J., **Dino, G.A.**, Rossetti, P., Griffiths, Z., Wagland, S.T., Coulon, F., 2017. Assessing the opportunities of landfill mining as a source of critical raw materials in Europe. Sardinia 2017 / Sixteenth International Waste Management and Landfill Symposium / 2 - 6 October 2017. S. Margherita di Pula, Cagliari, Italy / © 2017 by CISA Publisher, Italy. ISSN 2282-0027. pp. 13.
3. Rossetti, P., **Dino, G.A.**, Biglia, G., Costa, E., 2017. Characterization of secondary raw materials from mine waste: a case study from the Campello Monti Ni±Cu±Co±PGE mining site (Western Alps, Italy). Sardinia 2017 / Sixteenth International Waste Management and Landfill Symposium / 2 - 6 October 2017. S. Margherita di Pula, Cagliari, Italy / © 2017 by CISA Publisher, Italy. ISSN 2282-0027. pp. 13.
4. Berra, V., Borghi, A., d'Atri, A., **Dino, G.A.**, Gallo, L.M., Giacobino, E., Martire, L., Massaro G., 2014. The Historical quarries from the Western Alps exploited for the realization of Via Roma in Turin (NW Italy). 9th International Symposium on Archaeological Mining History "Research and preservation of the ancient mining areas". Yearbook of the Institute Europe Subterranea 2014. pp. 289-299. Edited by Jacquo Silvertant MA.
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6. Bozzola, G., **Dino, G.A.**, Fornaro, M., Lorenzi, A., 2012. Technological innovations and new products obtained from a virtuosos management of mining waste. 4th International Conference on Engineering for Waste and Biomass Valorisation. September 10-13, 2012 – Porto, Portugal. Pag. 1879-1884. In Congress Procedia (CD ROM). Edited by A. Nzihou and F. Castro. ISBN: 979-10-91526-00-5. Web. Site: <http://www.wasteeng.org>.
7. **Dino, G.A.**, Fornaro, M., Passarella, I., 2012. Innovative treatment and valorisation of waste coming from dimensional stones working plants: Piedmont samples. 4th International Conference on Engineering for Waste and Biomass Valorisation. September 10-13, 2012 – Porto, Portugal. Pag. 853-858. In Congress Procedia (CD ROM). Edited by A. Nzihou and F. Castro. ISBN: 979-10-91526-00-5. Web. Site: <http://www.wasteeng.org>.
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10. Fornaro, E., **Dino, G.A.**, 2008. Conversion of sludges/sediments into suitable loam. International Symposium on Sediment Management I2SM. Lille, 9-11 luglio 2008.
11. Cavallo, A., Colombo, A., Tunesi, A., **Dino, G.A.**, Fornaro, M., Bellopede, R., Gomez, M., Manfredotti, L., Marini, P., 2008. The VCO region: research for the valorization of its geological and historical resources. Convegno Second International Congress Dimension Stones. Carrara, 29-31 maggio 2008. pag. 497-501. Pacini Editore (Pisa).
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13. Bozkurtoglu, E., **Dino, G.A.**, Fornaro, M., Giuliani, A., 2006. Rehabilitation Studies of Quarries in Italy. Some Selected Samples. Convegno Internazionale "Le risorse lapidee dall'antichità ad oggi in area mediterranea" Canosa di Puglia. 25-27 settembre 2006. pp. 339-344. ISBN:88-901342-6-7 Ed. GEAM.
14. Bonetto, S., **Dino, G.A.**, Fornaro, M., Zucchi, S., 2006. La valorizzazione ed il recupero produttivo del marmo di Ornavasso (VB). Convegno Internazionale "Le risorse lapidee dall'antichità ad oggi in area mediterranea" Canosa di Puglia. 25-27 settembre 2006. pp.135-141. ISBN:88-901342-6-7. Ed. GEAM.
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16. **Dino, G.A.**, Manfredotti, L., Marini, P., 2006. The qualification of stone products in the global market: the example of Verbano Cusio Ossola. Convegno MPES. Torino, 20-22 settembre 2006. pp. 660-665. ISBN 88-901342-4-0.
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21. **Dino, G. A.**, Fiora, L., Fornaro, M., Gambelli, E., Sandrone, R., 2003. Sludge Production and Management in the Italian Granite Stone Industry: An Example from Two Granite Basins in the Alps – "Industrial Minerals and Building Stones" Congress, IMBS 2003 – Istanbul – Turkey 15 – 18 September 2003. pp. 147-158. Ed. Erdogan Yurez.
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24. **Dino, G.**, Martinetto, V., Rodeghiero, F., 2001. Le risorse del Monte Bracco: dalla Quarzite ai minerali industriali. Il caso degli gneiss alterati. - Seminario Internazionale "Le Pietre Ornamentali della Montagna Europea". Luserna S. Giovanni 10 –12 giugno 2001. Volume atti congresso. pp. 222-232.

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1. Rossetti, P., **Dino, G.A.**, Biglia, G., De La Feld, M., Pizza, A., 2017. Characterization of extractive waste facilities for SRM recovery from mining sites: case studies from the Smart Ground Project. IV Simposio Attività Minerarie nel Bacino del Mediterraneo. Iglesias (CA). 23-24 June 2017. pp. 123-131.
2. **Dino, G.A.**, Fornaro, M., Cavallo, A., Colombo, A., Tunesi, A., 2013. I lapidei ossolani: dalla cava al costruito. Atti del Convegno: 5° Congresso Nazionale Geologia e Turismo. Bologna, 6-7 giugno 2013. Pp 250-262. ISPRA Atti /2015 ISBN: 978-88-448-0721-4. (<http://www.isprambiente.gov.it/it/pubblicazioni/atti/geologia-turismo...-a-10-anni-dalla-fondazione>).
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6. **Dino, G.A.**, Fornaro, M., Milone, M., 2007. La gestione delle macerie in area urbana: produzione di materiali riciclati e possibilità di autoconsumo. Convegno Inertech 2007. Rimini, 7-10 novembre 2007. Supplemento alla rivista "Recycling- demolizioni&riciclaggio" n. 62/08. pp.184-189. Editrice PEI srl.
7. **Dino, G. A.**, Fornaro, M., 2002. Gestione delle "risulte e degli scarti litoidi". Convegno SAMOTER (organizzato dall'A.N.I.M.) su "Inerti e Costruzioni". Verona, 16 febbraio 2002. Volume atti convegno. pp. 77-80.
8. **Dino, G.A.**, Fornaro, M., 2001. Progresso tecnico e Ricerca scientifica per lo sviluppo dell'attività estrattiva della Pietra nelle Valli dell'Ossola. Convegno "Promuovere e finanziare le azioni per lo sviluppo sostenibile" (Domodossola, 24 novembre 2001). Volume atti convegno. pp. 68-86.

*Abstracts and extended abstracts are not included in the present list.*

**ANNEX 2 – SPEAKER AND CHAIR AT INTERNATIONAL AND NATIONAL CONGRESSES**

**CHAIR OR CO-CHAIR AT NATIONAL AND INTERNATIONAL CONGRESSES AND CONFERENCES**

03.05.2026	08.05.2026	Co-Chair, Session ERE4.3. Towards Responsible and Innovative Critical Raw Materials Supply: From Primary Extraction to Extractive Waste Valorization. EGU General Assembly 2026 (Vienna, 03-08.05.2026). <a href="#">Session ERE4.3</a>
27.04.2025	02.05.2025	Co-Chair, Session GMPV6.2. From waste to resource: valorisation of extractive waste for the recovery of critical minerals and metals. EGU General Assembly 2025 (Vienna, 27.04-02.05.2025). <a href="#">Session GMPV6.2</a>
03.09.2024	05.09.2024	Co-chair, Session S46. Sustainable raw material supply to boost the green and digital transition: the role of mineral waste recovery and recycling. SGI-SIMP Conference (Bari, 02-05.09.2024) <a href="#">Congresso congiunto SGI, SIMP 2024</a>
14.04.2024	19.04.2024	Co-Chair, Session GMPV6.1 Critical metals and minerals from mining and quarrying waste materials: formation, recovery and environmentally sustainable management for their valorization. Co-organized by ERE4. EGU General Assembly 2024 (Vienna, 14-19.04.2024). <a href="https://meetingorganizer.copernicus.org/EGU24/session/50176">https://meetingorganizer.copernicus.org/EGU24/session/50176</a>
19.09.2023	21.09.2023	Co-Chair at the SGI-SIMP 2023 Congress: The Geoscience paradigm: resources, risk and future perspectives. Title of the Scientific Session S16. Georesources and Sustainability: from cultural heritage promotion to waste exploitation. Potenza, 19-21 September 2023.
02.11.2022	28.04.2023	Co-Chair, Session ERE4.4 Sustainable solutions for proactive mine and quarry waste management and raw material supply valorization. EGU General Assembly 2023 (Vienna, 24-28.04.2023). <a href="https://meetingorganizer.copernicus.org/EGU23/session/46425">https://meetingorganizer.copernicus.org/EGU23/session/46425</a>
06.10.2022	07.10.2022	Chairperson at the Congress Scarti Minerari: Da Rifiuto A Risorsa, organised by Fondazione Stava 1985, Tesaro di Stava. Title of the session: Da Rifiuto A Risorsa.
19.09.2022	21.09.2022	Chairperson at the SIMP Congress, Torino (Italy) of the session S5: Sustainability in dimension and ornamental stones industry (from exploitation to application).
29.06.2022	30.06.2022	Chairperson of the Workshop, organized by GEAM (Associazione Georisorse ed Ambiente), in collaboration with UNITO (Earth Sciences Department) and POLITO (DIATI). Title of the Workshop: "Raw Materials and Sustainability: challenges and potentialities for raw materials supply from natural and recycling sources" (Materie Prime e Sostenibilità: criticità e potenzialità nel reperimento delle risorse primarie e da riciclo).
01.07.2021	01.07.2021	Chairperson, Session: Remind project: Mining Sustainability. SIDISA 2021 – 11th International Symposium of Environmental Engineering (Torino, 29.06 – 02.07.2021)
03.11.2020	30.04.2021	Chairperson, Session ERE5.3: Interdisciplinary approach to support raw material supply and sustainable development goals. EGU General Assembly 2021 (vEGU21: Gather Online - 19- 30.04.2021). <a href="https://meetingorganizer.copernicus.org/EGU21/session/38731">https://meetingorganizer.copernicus.org/EGU21/session/38731</a>
03.11.2020	30.04.2021	Co-Chair, Session ERE5.1: Global Heritage Stone Resource: The sustainable way forward. EGU General Assembly 2021 (vEGU21: Gather Online - 19-30.04.2021). <a href="https://meetingorganizer.copernicus.org/EGU21/session/38728">https://meetingorganizer.copernicus.org/EGU21/session/38728</a>
16.10.2019	06.05.2020	Chairperson, Session ERE5.5: Sustainable Mining and Circular Economy in the Extractive Industry. EGU2020 General Assembly. <a href="https://meetingorganizer.copernicus.org/EGU2020/session/34715">https://meetingorganizer.copernicus.org/EGU2020/session/34715</a> . Session on the 6 <sup>th</sup> of May 2020, organized as a virtual session due to the COVID19 pandemic crisis.
19/09/2018	20/09/2018	Chairperson, Session: Advances in Land Management and Resource Recovery. REMEDIATE Internationall Conference. Belfast. 19-20.09.2018.
08/04/2018	08/04/2018	Co-chair, Session ERE 7.1: Geomaterials in construction: resources, properties, performance, environmental interactions, decay, and extractive industries waste management. EGU General Assembly 2018 Vienna 8–13 April 2018.
02/10/2017	06/10/2017	Co-chair of the Workshop "G14 / Smart Ground - Secondary raw materials". Sardinia Symposium 2017. Santa Margherita di Pula (CA). 2-6 October 2017.
23/04/2017	28/04/2017	Co-chair, Session ERE 6.1: Geomaterials in construction: resources, properties, performance, environmental interactions, decay, and extractive industries waste management. EGU General Assembly 2017. Vienna, 23-28 April 2017.
24/05/2016	24/05/2016	Chairperson, Networking Session: Circular economy and landfill mining: key concepts to exploit waste as new resources. SUM 2016 – 3rd of Symposium of Urban Mining and Circular Economy. Bergamo, 23-25 maggio 2016.

**SPEAKER AND INVITED SPEAKER AT INTERNATIONAL CONGRESSES AND CONFERENCES**

16.06.2025	20.06.2025	Speaker at the Global Stone Congress (Drama, Greece – 16-20.06.2025). Speech titled: From waste to resources: the processing of extractive waste from siliceous stones for critical raw materials and by-products exploitation (Dino et al.). (17.06.2025)
16.06.2025	20.06.2025	Speaker at the Global Stone Congress (Drama, Greece – 16-20.06.2025). Speech titled: Managing marble quarry waste: opportunities

		and challenges for circular economy implementation (Dino et al.). (17.06.2025)
16.06.2025	20.06.2025	Speaker at the Global Stone Congress (Drama, Greece – 16-20.06.2025). Speech titled: The importance of education in geo-resource management for a more sustainable mining: the GEODES Erasmus project (Dino et al.). (18.06.2025)
04.11.2024	04.11.2024	Invited Speaker and moderator at the International Summit on Metallurgical Engineering and Mineral Processing & 2nd International Summit on Power and Energy Engineering. Title of the speech: Green transition: tools and protocols to decide if and when applying waste exploitation as an alternative to remediation. (Vancouver, 04.11.2024)
06.09.2023	08.09.2023	Invited Speaker at the Conference TERRA (1 <sup>st</sup> European Conference on Teaching and Research Sustainable Resource Extraction). (Boppard, D). Title of the speech: Towards sustainable mining: the importance of cooperation projects to boost the training of mining engineers and geologists for the transition to sustainability.
23.05.2022	27.05.2022	Speaker at the EGU2022. Vienna (Austria)&online congress. Speech titled: Sustainable Raw Material supply: towards a more “domestic” approach (Dino G.A., Cavallo A.), and Poster titled: Quartz, feldspars and REE from gneiss waste materials: an example from the VCO province (Piedmont, northern Italy)” (Cavallo A., Dino G.A.). (23.05.2022)
01.07.2021	01.07.2021	Speaker at the SIDISA 2021 – 11th International Symposium of Environmental Engineering (Torino, 29.06 – 02.07.2021). Speech title: Oral bioaccessibility of potentially toxic elements in soils and extractive waste from abandoned mine site: a case study from Campello Monti, NW Italy
11.12.2020	11.12.2020	Invited Speaker at the 1st Roundtable – INCO-Piles Project. Speech titled: Challenges and potentialities of RM and CRM supply from extractive waste facilities: case studies from Italian quarrying and mining activities.
22/07/2019	22/07/2019	Invited Speaker at the Global Recycling Summit 2019 – 22 <sup>nd</sup> -23 <sup>rd</sup> July 2019. Speech titled: Exploitation of mineral waste fine fraction to produce cultivable substrates to use for land rehabilitation.
07/02/2018	07/02/2018	Invited Speaker at the Joint Workshop on EU Landfill Mining. Public Waste Agency of Flanders (OVAM). Mechelen, Belgium. Speech titled: SMART GROUND approach and pilot studies.
23/04/2017	28/04/2017	Speaker at the EGU General Assembly 2017. Vienna, 23-28 April 2017. Speech titled: Extractive waste exploitation towards the natural resource preservation: two Italian case studies.
20/05/2016	20/05/2016	Speaker at the 1st International Sustainable Stone Conference. Carrara Marmotec. Speech titled: Quarry waste management: a new territorial and industrial approach in Carrara basin.
17/04/2016	22/04/2016	Speaker at the EGU General Assembly 2016. Vienna, 17-22 April 2016. Speech titled: Recycling of quarry waste as part of sustainable aggregate production: Norwegian and Italian point of view.
31/10/2015	07/12/2015	Invited Speaker at the GSA (Geological Society of America) Congress. Baltimore, Maryland, US. 31 October 2015 – 7 November 2015. Speech titled: The Candoglia Marble from Verbano Cusio Ossola quarry basin (Northwestern Italian Alps): characterization, quarrying evolution and application for the Milano Cathedral construction.
12/04/2015	17/04/2015	Speaker at the EGU General Assembly 2015. Vienna, 12-17 April 2015. Two speeches titled: Title 1. Candoglia Marble and the "Veneranda Fabbrica del Duomo di Milano": a resource for Global Heritage Stone Designation in the Italian Alps. Title 2. Reuse of residual sludge from stone-processing: differences and similarities between sludge coming from carbonate and silicate stones.
22/10/2014	25/10/2014	Speaker at the V Global Stone Congress – 22-25 October 2014. Antalya, Turkey. Speech titled: Quarry dumps: Chance to become new ore deposit (Italian state of the art). Co-Chair of the session: Assessment of stone performance in use (23.10.2014).
15/09/2014	19/09/2014	Speaker at the IAEG XII CONGRESS Torino 2014 - Engineering Geology for Society and Territory. Lingotto Fiere 15-19 September 2014. Speech titled: Treatment and exploitation of waste coming from quarry industries: reuse as aggregate.
07/04/2013	12/04/2013	Speaker at the EGU General Assembly 2013. Vienna 7-12 April 2013. Speech titled: Residual sludge from dimensional stones: characterisation for their exploitation in civil and environmental applications.
10/09/2012	13/09/2012	Speaker at the 4th International Conference on Engineering for Waste and Biomass Valorisation. September 10-13, 2012 – Porto, Portugal. Speech titled: Innovative treatment and valorisation of waste coming from dimensional stones working plants: Piedmont samples.
14/03/2008	14/03/2008	Speaker at the of the Final Congress of the Interreg PIC IIIA VCO – Canton Ticino “OSMATER (Osservatorio Sub-Alpino Materiali Territorio Restauero)”. Crevoladossola (VB), 14 March 2008. Speech titled: The evolution of extraction techniques and in situ applications. Proposals for geotouristic routes starting from historic villages.
12/11/2005	14/11/2005	Speaker at the First International Conference on the Geology of Tethys. 12-14 November, 2005, Cairo University. Speech titled: Monte Bracco quartzite dumps: chance of recovery as second raw material for glass and ceramic industries.
23/05/2005	25/05/2005	Speaker at the GEOLINE 2005 congress: Geology and linear infrastructures. Lyon 23-25 May 2005. of the speech titled: Piedmont experience for the re-use of dimension stone quarrying by-products, civil works wastes in the large public works.

20/08/2004	28/08/2004	Speaker at the 32nd International Geological Congress. Firenze, 20-28 August 2004. Speech titled: Re-use of dimension stone quarrying wastes as construction materials for large public works: the experience of Piedmont region (Italy).
15/09/2003	18/09/2003	Speaker at the IMBS 2003 Congress – Istanbul – Turkey 15 – 18 September 2003. Speech titled: Sludge Production and Management in the Italian Granite Stone Industry: An Example from Two Granite Basins in the Alps. "Industrial Minerals and Building Stones"
07/10/2002	10/10/2002	Speaker at the SWEMP 2002 Congress – Cagliari, 7-10 October 2002. Speech titled: Residual sludge management: technical and regulation point of view and different kinds of reuse.

**SPEAKER AND INVITED SPEAKER AT NATIONAL CONGRESSES AND CONFERENCES**

28.01.2026	28.01.2026	Speaker at the EUREECA Winter School – WINREE2026. Title of the speech: "Rare Earth Elements for the Green Transition: Primary Sources and Mining Waste, from Sustainable Resource Management to Mining Industry 4.0". Sassari, 28 January 2026.
27.02.2025	27.02.2025	Invited Speaker for a seminar organized by the Order of Geologists of Tuscany. Title of the speech: "Energy and digital transition: needs and strategies for sustainable raw materials, critical raw materials and strategic raw materials supply."
22.11.2024	22.11.2024	Invited Speaker at Restructura 2024, Istituto Lingotto Fiere, Torino. Title of the speech: Energy and digital transition: needs and strategies for a sustainable supply of raw materials and critical raw materials. Circular economy and integrated management of "waste-resource", focused on mineral wastes (related to the mining, civil and construction sectors).
24.04.2024	24.04.2024	Invited Speaker at the Planet Week, Istituto Nazionale di Ricerca Metrologica (INRIM), Torino. Speech titled: "Green transition: sustainability challenge for the extractive industry".
25.11.2023	25.11.2023	Invited Speaker at RESTRUCTURA 2023, Istituto Lingotto Fiere, Torino. Speech titled: "Circular economy in extractive industry and building sector".
11.10.2022	11.10.2022	Invited Speaker at the 3rd edition of the Short Mediterranean PhD School "From sustainable to regenerative and resilient design". Title of the speech: "Mineral waste management and recovery: Focus on rocks and soils from excavation and extractive waste". Napoli, 10-13.10.2022
06.10.2022	07.10.2022	Invited Speaker at the Congress Scarti Minerari: Da Rifiuto A Risorsa, organised by Fondazione Stava 1985, Tesaro di Stava. Title of the speech: "Economia circolare nell'industria estrattiva: potenzialità e criticità"
29.06.2022	30.06.2022	Speaker at the Workshop, organized by GEAM (Associazione Georisorse ed Ambiente), in collaboration with UNITO (Earth Sciences Department) and POLITO (DIATI). Title of the Workshop: "Raw Materials and Sustainability: challenges and potentialities for raw materials supply from natural and recycling sources". Speech title: Valorizzazione del ciclo produttivo dei marmi di Carrara.
20.06.2022	24.06.2022	Invited Speaker at the MINEWA Summer School. Bardonecchia (TO, Italy). Speech titled: Mineral tailings (and extractive waste management and recovery). (23.06.2022)
29/06/2018	30/06/2018	Speaker at the 5 <sup>th</sup> Symposium for the Mining activities in the Mediterranean Basin – Iglesias. Speech titled: Sustainable mining to extract critical raw materials and secondary raw materials from extractive waste facilities: challenges and opportunities. The Campello Monti Ni-mine case study.
24/05/2017	24/05/2017	Invited Speaker at the training course organized by GEAM about "Methodologies for the underground resources protection: theoretical and practical aspects". Speech titled: Underground protection in the mining areas.
19.05.2017	19.05.2017	Speaker at the GEAM Conference: Methodologies for the Protection of Groundwater Resources: Theoretical and Practical Aspects. Title of the speech: Protection of Groundwater in Mining Areas. (Torino, 19.05.2017)
08/11/2016	11/11/2016	Speaker at the session: Waste management within the circular economy: applied research for the recycling, recovery and integrated management of waste. ECOMONDO – Rimini, 8-11 November 2016.
20/05/2016	20/05/2016	Speaker at the 1st International Sustainable Stone Conference. Carrara Marmotec. Speech titled: Quarry waste management: a new territorial and industrial approach in Carrara basin.
29/04/2016	30/04/2016	Invited Speaker at the ANIM Congress in Valmalenco 29-30 April: mining activities in the Alpine context. Speech titled: Quarts from Sondalo: example of sustainable mining and waste production minimisation, also considering the recent EU projects (eg. Smart Ground project).
07/06/2013	07/06/2013	Speaker at the 5 <sup>th</sup> National Congress on Geology and Turism. Bologna, 6-7 June 2013. Speech titled: Dimension stones from Ossola valley: from quarry to buildings.
22/05/2012	22/05/2012	Invited Speaker at the Focus Day: "Extractive waste valorisation: waste or resource for the marble and construction sector in the Frosinone district" Organised by the Chamber of Commerce of Frosinone. Speech titled: The market of the recycled materials and the ongoing experimentation about residual sludge recovery.

19/09/2011	23/09/2011	Speaker of the speech titled: Sludge management in Piedmont dimensional stones industry: new examples of residual sludge "renaturation". Geoitalia 2011. VIII Italian Forum for the Earth Sciences. Torino 19-23 September 2011.
05/11/2008	08/11/2008	Speaker at Ecomondo. 12th International Trade & Energy Recovery and Sustainable Development. Rimini, 5-8 November 2008. Speech titled: Rocks and soils from excavation works.
25/02/2009	27/02/2009	Speaker at the 3° National Congress AIGA - Centro di GeoTecnologie, University of Siena, San Giovanni Valdarno (AR), 25-27 February 2009. Speech titled: Extractive waste management: changes on the basis of the recent Italian legislation (D. Lgs. 117/2008 e L. 13/2009).
19/09/2008	19/09/2008	Speaker at the Congress "Uniqueness, uniformity and universality in the cultural landscape". Grado, 18 – 19 September 2008. Speech titled: The White Montorfano: potentiality and application in the VCO building sector.
15/06/2007	15/06/2007	Speaker at the Congress for the young researchers in applied geology. Venezia, 14-15 June 2007. Speech titled: Issues and Challenges connected to residual sludge management, chance of recovery after proper treatment activities.

**PRESIDENT OR MEMBER OF SCIENTIFIC OR ORGANIZING COMMITTEE AT INTERNATIONAL CONGRESSES AND CONFERENCES**

01.10.2024	20.06.2025	Member of the Scientific Committee at the GlobalStone Congress 2025. Drama, Greece, 16-20.06.2025.
20.11.2024	21.11.2024	President of the organizing committee and Speaker of the workshop NOW RESOURCE-2nd edition ( <a href="http://www.nowresource.it">www.nowresource.it</a> )
14.09.2023	15.09.2023	President of the organizing committee and Speaker of the workshop NOW RESOURCE ( <a href="http://www.nowresource.it">www.nowresource.it</a> )
01.05.2022	24.05.2023	President of the Scientific Committee of the Conference Geology, Mines and Society (GeoMinas-SO). Higher Institute of Sciences and Technology of Mozambique, Maputo City. 22-24 May 2023. <a href="https://ces.uc.pt/en/agenda-noticias/agenda-de-eventos/2022/geominas-so">https://ces.uc.pt/en/agenda-noticias/agenda-de-eventos/2022/geominas-so</a>
29.06.2022	30.06.2022	Member of the Organizing Committee of the Workshop, organized by GEAM (Associazione Georisorse ed Ambiente), in collaboration with UNITO (Earth Sciences Department) and POLITO (DIATI). Title of the Workshop: "Raw Materials and Sustainability: challenges and potentialities for raw materials supply from natural and recycling sources" (Materie Prime e Sostenibilità: criticità e potenzialità nel reperimento delle risorse primarie e da riciclo).
01.06.2021	16.09.2021	Member of the Organizing Committee and Speaker at the GEAM Workshop - Raw materials and critical raw materials: European policies, strategies and projects. Speech title: Experiences on concluded and ongoing projects.
01.04.2019	07.10.2021	Member of the organizing committee of the II Workshop on Heritage Stone – Torino, 21st-23rd September 2020. Postponed to 5th-7th October 2021, due to the COVID19 pandemic crisis.
02/10/2018	04/10/2018	Member of the Organizing committee and co-chair: I Workshop on Heritage Stones. Salamanca (Spain). 2-4 October 2018 "Stone and Heritage in Salamanca. A standard through the centuries". IUGS Heritage Stones Subcommission.

Poster presentation are not included in the present list.

### ANNEX 3 – PROJECTS

#### NATIONAL AND INTERNATIONAL PROJECTS AWARDED THROUGH COMPETITIVE CALLS

- 02.05.2025 – 31.12.2026 PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES WITHIN THE SAF4IM PROJECT, FUNDED UNDER THE MASE (Ministero dell'Ambiente e della Sicurezza Energetica) – MISSION INNOVATION 2.0 CALL.  
**Title:** *Optimization of Acid Flotation for Quartz and Feldspar Separation: Innovations and Environmental Sustainability*  
**Topic:** Sustainable raw material supply  
**Coordinator:** Minerali Industriali S.p.A.  
**Partners:** University of Turin (Department of Earth Sciences – UNITO coordination; Department of Chemistry; Department of Management “Valter Cantino”)  
**Total project budget:** €1,025,450.63  
**UNITO budget** (managed by the Department of Earth Sciences): €338,262.51
- 01.01.2025 – 31.12.2027 RESEARCH ACTIVITY WITHIN THE SENTINEL SPRING PROJECT – WATER4ALL JOINT CALL 2023 – AQUATIC ECOSYSTEM SERVICES – MUR/EU – CUP D13C24002900007  
**Project title:** SENTINELSPRINGS – Springs as sentinels of climate change and sustainability of aquatic ecosystems  
**Coordinator:** Instituto Superior Técnico - Lisboa (IST-ID)  
**Partner:** Geological Survey of Denmark and Greenland (GEUS); University of Turin (UNITO); Bureau de Recherches Géologiques et Minières (BRGM/NRE, France); Laboratorio di Biodiversità e Servizi Ecosistemici - ENEA BES; University of Lodz - The Institute of Ecology and Environmental Protection (Poland); The Energy and Water Agency EWA (Malta).  
**Scientific Responsible UNITO:** Prof. Manuela Lasagna  
**Total Budget:** €1,698,546.00  
**UNITO budget:** €250,000.00
- 01.08.2024 – 31.07.2027 PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR EXCHANGE WITH MOZAMBIQUE, CONNECTED TO THE ERASMUS+ 2024 KA171 INTERNATIONAL MOBILITY INVOLVING THIRD COUNTRIES NOT ASSOCIATED TO THE PROGRAMME (PARTNER COUNTRIES)  
**Partners:** UNITO – Department of Management (Scientific Responsible: Prof. Piercarlo Rossi); Mozambique: Instituto Superior de Ciências e Tecnologia de Moçambique (ICSTEM) (Scientific Responsible: Prof. José Mondlane). Etiopia (Addis Ababa University, Bahir Dar University, Dire Dawa University, Wollo University, Dilla University, Jinka University), Uganda (Makerere University)  
**Project budget:** €114,828.00
- 01.06.2024 – 30.11.2024 RESEARCH ACTIVITIES RELATED TO THE SAFE (*Sustainable And Friendly Equestrian*) PROJECT, funded by PNRR NODES (II call 2023).  
**Coordinator:** Scuderia 1918. **Partners:** UNITO (Departments of Veterinary, Chemistry, Earth Sciences, and DISAFA).  
**Project Budget:** €15,000.00  
**UNITO Budget:** €7,500.00
- 01.05.2024 – 30.06.2025 RESEARCH ACTIVITY FOR PUBLIC ENGAGEMENT – UNITO, titled “Roleplay on Environmental Education With an Interdisciplinary and Novel Didactic” (REWIND).  
**Scientific Responsible for UNITO:** Prof. Manuela Repetto (Department of Philosophy and Education Sciences)
- 28.09.2023-27.09.2025 RESEARCH ACTIVITIES FOR THE NATIONAL PROJECT PRIN 2022 TITLED “EUREECA (Rare Earth Elements in Urban and mining aReas: an EmErging Concern for soil (and human) health)”  
**Coordinator:** UNITO (Department of Agricultural Sciences, Department of Chemistry and Earth Sciences Department)  
**Partners:** University of Sassari, CNR.  
**Project budget:** €312,053.00

- 30.11.2023 – 31.05.2025  
PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE DST-SRM Project, funded by PoC (Academic call for proposals) - Spoke 2 (CUP D17G22000150001) - PNRR - NODES - Nord Ovest Digitale E Sostenibile. Title of the project: "Decision Support Tool to assess the Sustainability in the Recovery of Second Raw Materials (Raw Materials, even Critical) from mineral waste".  
**Coordinator:** UNITO (Earth Sciences Department and Department of Management)  
**Partners:** University of Western Piedmont, Soc. Minerali Industriali s.r.l., Eng. Claudia Chiappino (freelance consultant).  
**Project budget:** €90,300.00
- 01.06.2023 - 31.08.2025  
PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE ERASMUS-EDU-2022-CBHE PROJECT GEODES (Geosciences, Development and Sustainability: Africa and Europe together). [Geociências, Desenvolvimento e Sustentabilidade \(uc.pt\)](#) Grant Number: 101082202  
**Coordinator:** University of Coimbra  
**Partners:** University of Salamanca (Spain), University of Torino (Italy), University Agostinho Neto (Angola), University Katyavala Bwila (Angola), University Mandume Ya Ndemufayo (Angola), University Eduardo Mondlane (Mozambique), University Lurio (Mozambique), University Pungue (Mozambique)  
**Project budget:** €399,985.00  
UNITO Budget: €32,596.00
- 01.09.2022-31.12.2023  
PRINCIPAL INVESTIGATOR AND RESEARCH ACTIVITIES FOR THE PROJECT GRANT FOR INTERNATIONALISATION. LINE 4. Title of The Project: Guidelines And Best Practices To Improve Territorial Circular Clusters. Funded by MUR (*MINISTERO DELL'UNIVERSITA' E DELLA RICERCA*).  
**Coordinator:** Earth Sciences Department (UNITO)  
**Partners:** Unito (DISAFA – Scientific Responsible: Prof. Elio Padoan; Department of Management Valter Cantino – Scientific Responsible: Prof. Piercarlo Rossi) and University of Zaragoza (Spain)  
**Project Budget:** €7,500.00
- 30.09.2022-30.09.2025  
PRINCIPAL INVESTIGATOR OF THE RESEARCH MODULE – RM1 AND RESEARCH ACTIVITIES OF THE PROJECT GRIP (Green processes for Industrial Productions and cost-effective effluents valorization), ASSOCIATED TO THE PNRR PROJECT TITLED NODES ("*Nord Ovest Digitale e Sostenibile*" funded by EU thanks to NextGenerationEU action - Grant agreement no. ECS0000036) - SPOKE 2- Green technologies and sustainable industries. The RM1 of GRIP project focuses on Circular Cluster associated to mineral waste managing and recycling.  
**Coordinator of NODES:** Polytechnic of Torino  
**Academic Partners:** University of Torino, University of East Piedmont, University of Insubria, University of Pavia, University of Valle D'Aosta, Università degli Studi di Scienze Gastronomiche, Università Cattolica del Sacro Cuore  
**Other Partners:** Fondazione Torino Wireless; Envipark - Environment Park SpA; BioPMed - Bioindustry Park Silvano Fumero SpA; Proplast - Consorzio per la promozione della cultura plastica; Città Studi di Biella - Città Studi S.p.A; M.I.A.C. Scpa – Polo; AGRIFOOD; Fondazione LINKS; Istituto Auxologico Italiano; Ospedale Maggiore della Carità di Novara; Fondazione Montagna Sicura; ERSAF - Ente Regionale per i Servizi all'Agricoltura e alle Foreste (Lombardia); I3P S.c.p.a. – Business Incubator of Politecnico di Torino; 2i3T – Business Incubator of Università di Torino; Sviluppo Como ComoNExT spa; OGR-TECH; CIM4.0.  
**Project budget:** M€112  
**Coordinator of GRIP project:** University of Torino  
**GRIP Project Coordination:** University of Turin (Scientific Coordinator: Prof. Cristina Prandi).  
**Academic Partners:** Polytechnic of Torino, University of Pavia, University of Eastern Piedmont, University of Insubria, Università Cattolica del Sacro Cuore, University of Sannio
- 2022-2025  
PROJECT LEADER for UNITO UNIT (External Partner) and RESEARCH ACTIVITIES RELATED TO THE PROJECT IGCP- 746. RESOURCES4ALL  
**Project Title:** Geoscience Education and Opportunities for Supporting Sustainable Development in Africa: Resources for All (RESOURCES4ALL)  
**IGCP Thematic Area:** Earth Resources  
IGCP-746 RESOURCES4ALL is a collaborative project involving European and African institutions. It is one of five IGCP projects approved by UNESCO in 2022, with a total duration of four years and annual renewal. The IGCP-746 RESOURCES4ALL project aims to promote geoscience education and equitable access to geological resources in African countries, with a strong focus

on environmental sustainability and responsible valorization of natural resources. The initiative strengthens cooperation between European and African academic institutions by fostering training, mobility, and the exchange of scientific expertise. Key objectives include improving accessibility to geological data and resources for students, researchers, and technicians; promoting youth and female participation; and contributing concretely to the achievement of the Sustainable Development Goals (SDGs) of the 2030 Agenda. Thanks to joint activities developed in collaboration with African partners and the University of Salamanca, it was possible to successfully prepare and submit the ERASMUS-EDU-2022-CBHE GEODES project proposal, funded in 2023 under the Capacity Building in Higher Education action.

**Coordinator:** Prof. Dolores Pereira (University of Salamanca).

2020- in progress

RESEARCH ACTIVITIES AND DST-UNITO REFERRING PERSON FOR THE TASK GROUP WORKING ON CIRCULAR ECONOMY FOR THE ERASMUS + KNOWLEDGE ALLIANCES PROJCT TITLED "UNIVERSITAS MONTIUM (UNITA)": [univ-unita.eu/Sites/](http://univ-unita.eu/Sites/)

**Coordinator:** University of Torino

**Partners:** Universidade da Beira Interior - UBI Portugal; Universidad de Zaragoza - UNIZAR Spain; Université de Pau et des Pays de l'Adour - UPPA France; Université Savoie Mont Blanc - USMB France; Universitatea de Vest din Timișoara - UVT Romania

01.11.2021 – 31.12.2022

RESEARCH ACTIVITIES RELATED TO THE PROJECT FOR PUBLIC ENGAGEMENT – UNITO, titled "Escape To learn".

**Scientific Responsible for UNITO:** Prof. Alessandra Bianco Prevot (Department of Chemistry).

2021 – 2024

PROJECT LEADER for UNITO UNIT and RESEARCH ACTIVITIES RELATED TO THE PROJECT HerSTONES (Heritage Stones Recognition: A Step Forward). IGCP CALL 2019 (area of interest for IGCP: Earth Resources). Project n. 637

**Coordinator:** Politecnico di Torino.

**Partners:** Department of Earth Sciences, University of Torino (Italy); Centre for Mineral Technology – Ministry of Science, Technology (Brazil); Department of Geology, Panjab University (India); Secretary of Mining of the Córdoba Province (Argentina); Universidad Santo Tomás (Colombia); Department of Geology, Eduardo Mondlane University (Mozambique).

HerSTONES aims at promoting new Global Heritage Stone Resources (GHSR) nominations of stones amongst emergent countries together with the collection of new GHSR from developed countries. It will disseminate the results not only by means of conventional modes as the editing papers in international scientific journal (e.g. Episodes, Geological society of London, Sustainability, etc.), but also by means of new innovative networking opportunity, such as a common interactive platform on Heritage Stones, which will be active to updated the information about the heritage stones and their use in historical building and monuments. Furthermore, it aims at enlarging the cooperation thanks to a more interdisciplinary approach, involving young and female researchers in meetings, research projects and publications in effective collaboration with senior researchers and innovative laboratories.

01.09.2020 – 31.08.2024

RESEARCH ACTIVITIES RELATED TO THE H2020- LC-CLA-2018-2019-2020 (Building a low-carbon, climate resilient future: climate action in support of the Paris Agreement) PROJECT, TITLED: Global drivers, local consequences: Tools for global change adaptation and - 20 - sustainable development of industrial and cultural Arctic "hubs" (ARCTIC HUB). Grant agreement no.: 869580. [ArcticHubs - ArcticHubs \(luke.fi\)](http://ArcticHubs - ArcticHubs (luke.fi))

**Coordinator:** Luke – Luonnonvarakeskus, Finland

**Partners:** UniLap – Lapin yliopisto, Finland; Mapita – Mapita Oy, Finland; RHA – Paliskuntain yhdistys, Finland; SLU – Sveriges Lantbruksuniversitet, Sweden; LTU – Luleå Tekniska Universitet, Sweden; Gran – Grans Sameby, Sweden; NORCE – NORCE Norwegian Research Centre AS, Norway; MGP – Magma Geopark AS, Norway; NINA – Stiftelsen Norsk Institutt for Naturforskning NINA, Norway; Nofima – Nofima AS, Norway; RCC – Rogaland Fylkeskommune, Norway; UoI – Háskóli Íslands, Iceland; HU – Hólabólaskólinn á Hólum, Iceland; KSC RAS – Kola Science Centre of the Russian Academy of Sciences, Russia; Touch – Touch TD Ltd, United Kingdom; BOKU – Universität für Bodenkultur Wien, Austria; UNITO – Università degli Studi di Torino, Italy; GINR – Grønlands Naturinstitut, Greenland; UoF – Fróðskaparsetur Føroya, Faroe Islands; Dalhousie – Dalhousie University, Canada; SOGSAKK – Sámi Education Institute, Finland.

**Scientific Responsible for UNITO:** Prof. Marco Giardino

**Personal role:** UNITO referring person for the Mining Hub

**Project Budget:** €5,991,083.75

15.01.2019 – 15.09.2023

PROJECT MANAGER FOR UNITO, MEMBER OF THE STEERING COMMITTEE, TASK LEADER UNITO for WP2, AND RESEARCH ACTIVITIES RELATED TO THE PROJECT SUGERE (Sustainability and Wise Use of Geological Resources) – ERASMUS PLUS (Capacity Building). <https://sugere.org>

**Coordinator:** University of Coimbra. Responsible: Prof. Nelson Rodrigues.

**Partners:** University of Salamanca (Spain), Universidade De Cabo Verde (Capo Verde), Universidade De Santiago (Capo Verde), Universidade Agostinho Neto (Angola), Instituto Superior Politécnico Tundavala (Angola), Universidade Eduardo Mondlane (Mozambique),

Instituto Superior De Ciências E Tecnologia De Moçambique (Mozambique), Centro De Estudos Sociais (Portugal).

Scientific Responsible: Prof. Domenico Antonio De Luca

**UNITO budget:** €56,911.00

**Total Budget:** €969,318.00

01.05.2017 – 29.12.2020

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE UNITO PROJECT CSP2016. GEODIVE. Project co-funded by Compagnia di San Paolo (Grant CSTO169034).

Project Title: From Rocks to Stones, from Landforms to Landscapes

The GeoDIVE project offers an in-depth exploration of the geodiversity of the Piedmont Region, aiming to uncover its significance as both a natural and cultural heritage resource.

Involved in Research Group 02 (Cultural Geoheritage).

Scientific Responsible: Prof. Marco Giardino

Project Budget: €75,145.84

01.01.2015 – 31.12.2018

PROJECT MANAGER FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO THE REMEDIATE PROJECT: EU Horizon 2020 Marie Skłodowska Curie. Grant Agreement N. 643087. (<http://www.remediate.eu/>)

Coordinator: Queens University of Belfast (UK)

Partners: Università degli Studi di Torino, Dublin City University (Ireland), Cranfield University (UK), University of Duisburg-Essen (Germany), TU Dortmund University (Germany), SUPREN GmbH (Germany), University of Copenhagen (Denmark).

Associated partners: Wessling GmbH (Germany), University of Toronto Scarborough (Canada), Geological Survey of Northern Ireland (UK), British Geological Survey (UK), Geological Survey of Ireland (Ireland), Geological Survey of Denmark & Greenland (GEUS) (Denmark), Stevens Institute of Technology (USA), Whiteford Geoservices Ltd (UK), Horizon srl (Italy), Network for Industrially Contaminated Land in Europe (NICOLE) (Netherlands), Belfast City Council (UK), Department of Agriculture, Environment and Rural Affairs (DAERA) (UK), RSK Group Ltd (UK), Institute of Urban Environment, Chinese Academy of Sciences (China), Golder Associates (UK), Institute of Astronomy, Geophysics, Atmospheric Sciences, University of Sao Paulo (Brazil), Civil and Environmental Engineering, University of California Berkeley (USA), BioMEMS and Bioinspired Microfluidic Laboratory, University of Calgary (Canada).

Scientific Responsible for UNITO: Prof. Domenico A. De Luca

UNITO budget: €258,061.00

Total Budget: €3,725,266.32

01.10.2015 – 31.03.2018

PROJECT MANAGER FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO THE H2020 Waste- 4 (2014) project, titled: SMART GROUND: SMART data collection and inteGRation platform to enhance availability and accessibility of data and infOrmation in the EU territory on SecoNDary Raw Materials. Grant Agreement N. 641988. ([www.smart-ground.eu](http://www.smart-ground.eu)).

Coordinator: ENCO engineering&consulting s.r.l.

Partners: Università degli Studi di Torino (Scientific Coordinator), XAMK (Mikkeli University of Applied Sciences, Finland), GTK (Geologian Tutkimuskeskus, Finland), VTT (Technical Research Centre of Finland Ltd), University of Pécs (Hungary), Cranfield University (UK), Regione Piemonte (Italy), IMAGEO srl (Italy), Atos SE (Spain), Bioazul (Spain), MKM consulting (Hungary), Bayzoltan (Hungary), Metsasairila Oy (Finland)

Scientific Responsible: Prof. Piergiorgio Rossetti

Total Budget: €2,496,800.10

UNITO Budget: €312,400.00

01.02.2014 – 01.03.2014

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES WITHIN THE UNICOO PROJECT (UNITO FOR INTERNATIONAL COOPERATION).

Project title: Environmental and territorial issues in urban areas in desert environments; the case of Niamey (Niger): management of groundwater resources and water supply; management and development of recycled aggregate production.

Coordinator: UNITO – Department of Earth Sciences (Scientific Responsible: Prof. Domenico A. De Luca)

Partners: Faculté d'Agronomie, Université Abdou Moumouni de Niamey (Niger); Faculté des Sciences et Techniques, Université Abdou Moumouni de Niamey (Niger)

11.10.2013 – 10.04.2017

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO EDULINK II (2013) RU.S.S.A.D.E. ([www.russade.eu](http://www.russade.eu))

**Project title:** Réseau des Universités Sahéliennes pour la Sécurité Alimentaire et la Durabilité Environnementale.

**Coordinator:** Cisao-Università di Torino (Scientific Responsible: Prof. Elena Ferrero)

**Partners:** Niger (Abdou Moumouni University of Niamey and Regional Center of Specialized Teaching in Agriculture), Chad (Abéché National Institute of Sciences and Techniques) and Burkina Faso (Polytechnic University of Bobo Dioulasso).

**Total budget:** €905,162.50

01.02.2012 – 01.08.2015

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE UNITO PROJECT - CSP2011. PROGEO-Piemonte: PROactive management of GEOlogical heritage in the PIEMONTE region: innovative methods and functional guidelines for promoting geodiversity knowledge and supporting geoconservation activities (PROGEO-Piemonte).

**Involved in the research groups:** Progeo07 (Brosso e Traversella mining sites) e Progeo 09 (Torino stones valorisation).

**Scientific responsible:** Prof. Marco Giardino

**Project Budget:** €319,668.00

01.01.2005 – 31.12.2007

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE INTERREG IIIA (Val d'Ossola – Italia/ Canton Ticino – Svizzera) PROJECT, TITLED: O.S.M.A.T.E.R. (Osservatorio Subalpino Materiali Territorio Restauro).

**Coordinator:** Chamber of Commerce Industry Handicraft Agriculture of the Verbano Cusio Ossola district.

**Scientific Partners:** Polytechnic of Torino, University of Torino, University of Milano Bicocca, University of Bologna, University of Applied Sciences and Environment Department (SUPSI).

**Partners:** VCO District, Confartigianato Novara-VCO, Assocave, Assograniti, Giacomini s.p.a.

Scientific responsible for UNITO: Prof. Mauro Fornaro

**UNITO budget:** €104,000.00

**Total Italian budget:** €425,000.00

01.01.2004 – 31.12.2006

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES FOR THE PRIN PROJECT (RESEARCH PROGRAM OF RELEVANT NATIONAL INTEREST)

**Project title:** Stone resources from antiquity to the present in the Mediterranean area: cultural identities and technologies. Integrated experiments for knowledge, restoration, and enhancement.

**Scientific Coordinator:** Prof. Mauro Fornaro

01.12.2002 – 31.12.2005

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES CONNECTED TO THE INTERREG PIC-IIIa (Val d'Ossola – Italia/Canton Ticino – Svizzera) PROJECT, TITLED: "Exploitation of the residual sludge produced during dimension stone working activities".

**Italian Coordinator:** VCO District

**Swiss Coordinator:** Industrial association for granites, marbles and stones from Ticino.

**Scientific Partners:** Polytechnic of Torino Torino, University of Torino, University of Milano Bicocca, University of Italian Switzerland, Republic and Canton Ticino - Air, water and soil protection section, Dionea SA.

Associated partners: Piemonte Region, Tecnoparco del Lago Maggiore, Chambre of Commerce VCO, Bettazza Graniti SA, Compodino SA, Internazionale Graniti s.p.a., Banca Pololare di Intra, Assograniti.

**Scientific Responsible at POLITO:** Prof. Renato Mancini.

**POLITO budget:** €42,900.00

**Total budget for Italy:** €125,409.00

#### PARTNERSHIPS, FRAMEWORK AGREEMENTS, AND EXPERT CONSULTING

01.01.2026-31.12.2026

PARTICIPATION IN THE GRANT FOR INTERNATIONALIZATION (GFI) UNDER THE UNIVERSITY OF TURIN PROGRAMME "TOGETHER BEYOND BORDERS".

**Project title:** SUSTERRA – Integrated Approaches for Sustainable Territory Management and Natural Risk Assessment and Mitigation.

**Scientific Coordinator:** Prof. Manuela Lasagna

**Budget:** €30,751.60

February 2025- January 2030 SCIENTIFIC RESPONSIBLE OF THE FOR THE FRAMEWORK AGREEMENT FOR SCIENTIFIC COOPERATION BETWEEN UNITO (Earth Sciences Department) and UNIVERSIDADE DE SÃO PAULO (Escola Politécnica da Universidade de São Paulo).

**Object of the Agreement:** joint didactic and/or scientific activities in all fields of knowledge considered to be of mutual interest, which may contribute to the development and deepening of activities conducted by the signatory institutions (focus on sustainable mining and circular economy in extractive industry).

January-July 2025 SCIENTIFIC RESPONSIBLE AND RESEARCH ACTIVITIES FOR THE CONSULTANCY AND SUPPORT ACTIVITIES COMMISSIONED BY ENCO S.R.L., FOCUSED ON THE DEVELOPMENT OF A DECISION SUPPORT SYSTEM (DSS) TO IMPROVE THE EFFICIENCY OF RAW MATERIAL RECOVERY FROM WASTE. Such activity is connected to the WP4 of GINNGER HEU project (ENCO s.r.l. is involved as partner and Task Leader in GINNGER project)

**Total budget:** 10.980,00€

01.01.2024-31.12.2025 RESEARCH ACTIVITY IN THE RILO-2024 PROGRAMME.

**Project title:** *Strategies and Innovations in the Management of Natural Risks and Resources: Case Studies for Environmental Sustainability.*

**Scientific Coordinator:** Prof. Guido Maira Adinolfi

**Budget:** €30,165.69

December 2024 – October 2027 SCIENTIFIC RESPONSIBLE FOR THE EARTH SCIENCES DEPARTMENT OF THE FRAMEWORK AGREEMENT FOR SCIENTIFIC COOPERATION AMONG UNIVERSITY OF TORINO (Earth Sciences Department, Department of Chemistry, Department of Management and Department of Agricultural Sciences), F.S.C – FORMAZIONE SICUREZZA COSTRUZIONI TORINO, ATHENA ART di LONGHITANO A. and CNA Associazione – Città Metropolitana di Torino.

**Object of the Agreement:** cooperation on research, teaching, implementation and dissemination activities about circular economy in the building sector, focusing on the formulation of sustainable and innovative geomaterials, in the field of green building and restoration.

01.04.2024 – 30.06.2024 PRINCIPAL INVESTIGATOR FOR THE CONSULTING ACTIVITY TITLED: “STUDY OF SUSTAINABLE SOLUTIONS FOR THE MANAGEMENT AND RECOVERY OF MINERAL WASTE”.

**Client of the consulting activities:** Eng. Claudia Chiappino (freelance consultant)

**Project budget:** 3.600,00€

10.10.2023 – 10.10.2026 SCIENTIFIC COORDINATOR OF THE COLLABORATION AGREEMENT BETWEEN THE MUNICIPALITY OF ALPIGNANO AND THE DEPARTMENT OF EARTH SCIENCES (UNIVERSITY OF TURIN).

**Subject of the agreement:** implementation of circular economy principles and efficiency improvements in the territorial exploitation (circular cluster) of products derived from the treatment of municipal solid waste, including the organization of a training course and the development of educational laboratories (living labs) to be established in the Municipality of Alpignano (TO). This agreement is carried out within the framework of the experimental and dissemination activities of RM1 – GRIP Project (flagship project of the PNRR NODES programme).

01.01.2023-31.12.2024 RESEARCH ACTIVITY IN THE RILO-2023 PROGRAMME

**Project title:** *Assessment of Hydrogeological Instability Risk: Analysis and Territorial Implications.*

**Scientific Coordinator:** Prof. Guido Stefano Mariani

**Budget:** €39,580.18

01.07.2022 – 30.09.2022 PRINCIPAL INVESTIGATOR FOR THE CONSULTING ACTIVITY TITLED “ACTIONS FOR THE SUSTAINABLE CLOSURE OF THE JULCANI – BONAVENTURA MINING SITE (PERU)”.

**Client of the consulting activities:** Hatch s.p.a. (Perù)

**Budget:** 18.000€

02.03.2022 – 15.09.2022 PRINCIPAL INVESTIGATOR AND TEACHING ACTIVITIES ON TOPICS CONNECTED TO CIRCULAR ECONOMY AND EXTRACTIVE INDUSTRIES IN THE VERBANO CUSIO OSSOLA QUARRY (VCO) BASIN, FOR THE CRT PROJECT “CONNESSI CON L’AMBIENTE”.

**Beneficiary of the CRT project:** Cooperativa Sociale Risorse – Verbania

**Budget UNITO:** 800,00 €

01.01.2022 – 31.12.2023

RESEARCH ACTIVITY IN THE RILO-2022 PROGRAMME

**Project title:** *Risk Analysis Related to Hydrogeological Instability Phenomena.*

**Scientific Coordinator:** Prof. Fiorella Acquavita

**Budget:** €32,380.11

01.01.2022 – 31.12.2023

RESEARCH ACTIVITIES FOR THE FRAMEWORK AGREEMENT FOR RESEARCH ACTIVITIES FOCUSED ON THE IMPROVEMENT OF THE KNOWLEDGE OF THE HYDROGEOLOGICAL STRUCTURE OF THE PIEDMONT PLAIN.

**Coordinator:** ARPA Piemonte

**Partners:** Regione Piemonte, University of Torino (Earth Sciences Department), Institute of Geosciences and Georesources of the National Research Council (CNR-IGG).

**Scientific Responsible:** Prof. Domenico Antonio De Luca.

**Budget:** 60.000,00€

22.12.2021 – 21.12.2022

RESEARCH ACTIVITY WITHIN THE FRAMEWORK OF THE RESEARCH AGREEMENT BETWEEN THE DEPARTMENT OF EARTH SCIENCES, UNIVERSITY OF TURIN, AND THE MONT AVIC NATURE PARK AUTHORITY.

**Research title:** Study of groundwater dynamics in the Chalamy Stream catchment (Aosta Valley)

**Scientific coordinator:** Prof. Domenico Antonio De Luca

01.01.2021 – 31.12.2022

RESEARCH ACTIVITY IN THE RILO-2020 PROGRAMME

**Project title:** *Developing New Strategies for the Mitigation of Geo-Hazards in Mountainous Areas.*

**Scientific Coordinator:** Prof. Sergio Carmelo Vinciguerra

**Budget:** €36,907.77

01.12.2020-30.11.2022

RESEARCH ACTIVITY WITHIN THE FRAMEWORK OF THE RESEARCH AGREEMENT between the Department of Earth Sciences, University of Turin, and the Optimal Territorial Area Government Authority No. 5 Astigiano Monferrato

**Research title:** Completion of the study for the definition of protection zones for the aqueduct catchments of Vallemaggiore di Cantarana; support for activities related to the drilling of a pilot well in the municipality of Villafranca; and a new study on the impacts of ongoing climate change on the groundwater of Valle Maggiore di Cantarana.

**Scientific Responsible:** Prof. Domenico Antonio De Luca

2020 – 2022

CONTACT PERSON for UNITO as STAKEHOLDER FOR THE PROJECT TITLED: RIS-ALiCE - Al-rich industrial residues for mineral binders in ESEE region.

**Coordinator:** Slovenian National Building and Civil Engineering Institute (ZAG)

June 2017 – June 2019

PRINCIPAL INVESTIGATOR FOR UNITO and PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES RELATED TO THE PROJECT CHARROCK (Characterization of Geomaterials)

**Coordinator:** University of Salamanca.

**Partners:** Università di Torino, Minas y Geología s.l., INTROMAC, Universidade de Coimbra, Universidade de Porto, Instituto Tecnológico de la Cerámica.

**Aim of the project:** cooperation among partners involved in the knowledge transfer, research, projects and joint collaborations within universities and companies, on issues concerning the valorisation of stone and mineral georesources (exploitation of waste and extractive waste, sustainable mining, geocultural valorisation).

01.01.2016-31.12.2017

RESEARCH ACTIVITY IN THE RILO-2015 PROGRAMME

**Project title:** *Interactions Between Human Activities and the Geological Environment.*

**Scientific Coordinator:** Prof. Cesare Comina

**Budget:** €16,847.46

01.06.2015 – 31.12.2015

SCIENTIFIC RESPONSIBLE FOR THE CONSULTING ACTIVITY ON THE CHARACTERIZATION AND CERTIFICATION OF WASTE MATERIALS GENERATED FROM MARBLE EXTRACTION ACTIVITIES IN THE CARRARA QUARRY BASINS (WITH A FOCUS ON THE LORANO AND CALOCARA BASINS).

**Client:** SOCIETA' APUANA MARMI (SAM)

Specifically, four product classes were evaluated: (i) Stabilized 0-25 with 3-25 inert material and 36% quarry fines; (ii) Stabilized for embankments 0-150 with 30-150 inert material and 42% quarry fines; (iii) Scapolame 160-250 for embankment filling or drainage layers; (iv) Sand 0.5-3 for backfilling and piping. The tests carried out were instrumental both for the subsequent design of a joint valorization plant for Carrara marble waste (Soc. Carrara Marble Way) and for assessing possible new scenarios for the valorization of these waste fractions.

**Budget:** 7.240,55€

16.03.2015 – 15.08.2019

SCIENTIFIC RESPONSIBLE, TOGETHER WITH PROF. PIERGIORGIO ROSSETTI, OF THE RESEARCH ACTIVITY AND COLLABORATION BETWEEN EARTH SCIENCES DEPARTMENT – UNITO AND MINERALI INDUSTRIALI SPA, ABOUT STUDIES CONNECTED TO INDUSTRIAL MINERALS CHARACTERISATION AND EXPLOITATION.

The collaboration enabled the organization of technical visits to the mine and processing plant as part of Geology courses (e.g., Quarries and Environmental Restoration, advanced-level courses for the PhD School in Natural Sciences and Innovative Technologies, PhD in Earth Sciences). Moreover, it is noteworthy that the Montorfano extraction site (mine and processing plant) was selected as a pilot case study for the Smart Ground project, subject to interdisciplinary studies aimed at assessing the environmental, economic, and social impacts associated with the exploitation of extractive waste dumps for raw material recovery, including critical raw materials. Furthermore, the collaborations established have led to subsequent educational and research partnerships focused on the valorization of extractive waste from silicate rocks (both from the Piedmont region and beyond).

01.01.2015-31.12.2016

RESEARCH ACTIVITY IN THE RILO-2014 PROGRAMME

**Project title:** *Interactions Between Human Activities and the Geological Environment in the Piedmont Hilly Sector.*

**Scientific Coordinator:** Prof. Luciano Masciocco

**Budget:** €14,093.52

01-06.2014 – in progress

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES CONNECTED TO HERITAGE STONE E GEOHERITAGE.

Since 2005, the writer has been involved in research concerning the study and enhancement of the Italian geomining heritage, working mainly on issues related to the enhancement of mining and dressing activities as a historical-cultural heritage to be preserved. The studies mainly concerned the historical ornamental and dimension stones from Piemonte Region (such as Lake Granites, Serizzi, Beole, Candoglia and Ornavasso marbles, Crevoladossola dolomite, Luserna Stone, Bargiolina, etc.); focusing mainly on some quarrying basins (Verbano Cusio Ossola, Luserna Stone, Dora Maira Unit), the extraction and processing activities and their application in historical and cultural buildings and in more rural contexts (villages, roads, dry stone walls, fountains, etc.). In addition to the heritage stones, the study of historical mining activities, such as those in the Brosso-Traversella, Val Sesia, Vallestrona and Valle Anzasca areas, has also been carried out.

**Period:** from 2005 – in progress.

Thanks to the carried out research, from 2014 the writer is Member of the Heritage Stone Working Group. The Heritage Stone Task Group (HSTG) has been established as a formal entity both of the "International Union of Geological Sciences" (IUGS) and "Commission C-10 - Building Stones and Ornamental Rocks" of the "International Association of Engineering Geology and the Environment" (IAEG C-10). HSTG leads the Global Heritage Stone (GHS) project, dealing with the establishment of a new formal international geological designation for those natural stone materials that have achieved widespread use and recognition in human culture. It also aims to formalize specific characteristics of a dimension stone in an internationally accepted context".

01.05.2014 – 31.10.2014

SCIENTIFIC RESPONSIBLE FOR A TECHNICAL CONSULTANCY ON THE MANAGEMENT OF EXCAVATED SOILS AND ROCKS, WITHIN THE FRAMEWORK OF THE ALPINE SPACE "POLY5" PROJECT.

**Client:** SOCIETÀ CORINTEA

The assignment focused on advising on the evaluation of different scenarios for the treatment and valorization of excavated soils and rocks produced as part of the Turin–Lyon project, with the aim of obtaining CL1 aggregates for concrete (for internal use) and aggregates for environmental recovery related to construction sites.

**Budget:** 3.660,00€

01.01.2014-31.12.2015

RESEARCH ACTIVITY IN THE RILO-2013 PROGRAMME

**Project title:** *Study of the Evolution of Nitrate Contamination in the Shallow and Deep Aquifers of the Piedmont Plain.*

**Scientific Coordinator:** Prof. Domenico Antonio De Luca

**Budget:** €2,414.29

01.05.2013 – 31.12.2013

SCIENTIFIC RESPONSIBLE, TOGETHER WITH PROF. DOMENICO ANTONIO DE LUCA, OF THE RESEARCH ACTIVITY TITLED: "DIMENSION STONES OF THE MAJOR LAKE AND OSSOLA VALLEY: EXPLOITATION OF THE RESIDUAL SLUDGE CONNECTED TO STONE WORKING ACTIVITIES IN VCO QUARRY BASIN".

**Coordinator:** Chambre of Commerce of Verbania (VCO).

**Project Budget:** 27.225,00€

17.4.2012 – in progress

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES OF THE C.I.S.A.O. (INTERDIPARTIMENTAL CENTER FOR RESEARCH AND TECHNICAL-SCIENTIFIC COOPERATION WITH AFRICA) ([www.cisao.unito.it](http://www.cisao.unito.it)).

The C.I.S.A.O. includes various Departments of the University of Torino (Department of Earth Sciences; Department of Chemistry; Department of Culture, Politics and Society; Department of Economics and Statistics "S. Cogne di Martini"; Department of Law; Department of Agricultural Sciences, Forestry and Food; Department of Veterinary Sciences) and the Polytechnic of Torino (Inter-university Department of Sciences, Project And Policies of the Territory, DIST) that have in common research and cooperation interests with African countries, in particular the Sahelian area. The African partners are Universities, Research Institutions, Ministries, Local Authorities, NGOs, Associations, Schools of different order.

May 2011 – February 2012

PARTICIPATION IN THE RESEARCH AGREEMENT BETWEEN THE DEPARTMENT OF EARTH SCIENCES OF THE UNIVERSITY OF TURIN AND SIPEA S.R.L., VIA G. FERRARI 39, BORGOSIA (TO).

**Research title:** Hydrogeological Study for the Assessment of the Quantity of Water from the Renancio Stream Feeding the Montellina Spring (Quincinetto, TO).

**Scientific Coordinator:** Prof. Domenico Antonio De Luca.

01.03.2011-30.09.2011

PARTICIPATION IN STUDY AND RESEARCH ACTIVITIES, FUNDED BY AFIB SPA, CONCERNING: "RESIDUAL SLUDGE TREATMENT TO PRODUCE A SUBSTRATE FOR AGRICULTURAL PURPOSES".

**Scientific responsible:** Prof. Mauro Fornaro

**Budget:** 2.500,00€

01.07.2009 – 30.06.2010

PARTICIPATION IN RESEARCH ACTIVITIES WITHIN THE FRAMEWORK AGREEMENT BETWEEN THE DEPARTMENT OF EARTH SCIENCES OF THE UNIVERSITY OF TORINO AND SATEA S.R.L.

**Title of the research project:** *Assessment of the geothermal potential of an area located in the municipality of Tarvisio and analysis of geothermal anomalies in Alpine arc springs.*

**Scientific Coordinator:** Prof. Domenico Antonio De Luca

**Budget:** €65,000.00

01.05.2009-31.12.2011

RESEARCH ACTIVITIES CONCERNING THE EXPLOITATION OF C&DW AND ROCKS AND SOILS FROM EXCAVATION WORKS FOR ENVIRONMENTAL REHABILITATION.

**Scientific responsible:** Prof. Mauro Fornaro.

01.01.2009 – 31.12.2010

PARTICIPATION IN THE UNIVERSITY-FUNDED SCIENTIFIC RESEARCH PROGRAMME (EX 60%), YEAR 2008.

**Research title:** *The Contribution of Earth Sciences to the Introduction of Alternative Energy Sources.*

**Scientific Coordinator:** Prof. Mauro Fornaro

01.12.2005 – 31.01.2006

SCIENTIFIC RESPONSIBLE OF THE RESEARCH ACTIVITIES FOCUSED ON QUARRYING INDUSTRY AND THE RELATED PRODUCTION CHAIN IN THE VERBANO CUSIO OSSOLA AREA.

**Title of the research activity:** The stone sector in Piedmont: production structure, supply chain organization, and market positioning.

**Client:** Centro Studi per l'Artigianato Piemontese

**Budget:** 4.000,00€

01.08.2004 – 31.07.2008

**PARTICIPATION IN RESEARCH ACTIVITIES WITHIN THE FRAMEWORK OF A CONSULTANCY FOR QUARRY OPERATORS OF THE LUSERNA STONE EXTRACTION BASIN****Title of the research:** Valorization of sawing sludge from the Luserna Stone basin for the production of artificial soils.

This research is based on the previous studies carried out in the Ticino (CH) quarrying basin and focused on the production of various mixtures of "artificial soils" obtained by combining stone-cutting sludge with organic materials (e.g., compost, green wood chips, etc.). These mixtures were tested at laboratory and greenhouse scale, and subsequently applied in full-scale field trials for the environmental restoration of a quarry site in Prà del Torno (Rorà, Turin province, Italy). Eight years after the field application, the artificial soil applied for the environmental rehabilitation of Prà del Torno quarry site were sampled and analyzed from both geotechnical and agronomic perspectives, in order to assess soil properties after several growing seasons in the absence of anthropogenic maintenance (e.g., irrigation, grass cutting, etc.).

**Coordinator:** University of Torino (Department of Earth Sciences)**Partners:** ACEA Pinerolese, ENVIROREM (Lugano-CH), Luserna Stone Quarry Operators, Municipality of Bagnolo Piemonte, Agronomist Stefano Assone (Freelance)**Scientific Coordinator:** Prof. Mauro Fornaro**Budget:** 26.000,00€

01.10.2003 – 31.03.2004

**COLLABORATION WITH PROF. ANGELICA FRISA MORANDINI FOR THE DRAFTING OF THE CHAPTER OF THE PAEP (PROVINCIAL EXTRACTIVE ACTIVITIES PLAN) OF THE PROVINCE OF TURIN, focused on the management and reuse of quarry waste, construction and demolition debris, and tunnel excavation materials produced within the Province of Turin.****Coordinator:** Regione Piemonte**Partners:** Politecnico di Torino, University of Torino**Scientific Coordinator:** Prof. Giulio Gecchele

01.10.2002 – 30.05.2003

**PARTECIPATION IN THE STUDY AND RESEARCH ACTIVITIES FOCUSED ON THE ECONOMIC AND LOGISTICAL MANAGEMENT OF CDW AND EXCAVATION ROCKS AND SOILS IN THE PIEDMONT REGION, INCLUDING PROPOSALS FOR POSSIBLE LOCAL AND ALTERNATIVE REUSE.** The study was carried out within the framework of the provincial mining planning for the Turin area.**Coordinator:** Politecnico di Torino**Partners:** University of Torino (Department of Earth Sciences), Province of Turin (now Metropolitan City of Turin), Province of Verbano-Cusio-Ossola, Piedmont Region, Lombardy Region, ARPA, UNIMIN, ANPAR, UNIONCAMERE, CAVIT, Cave Germaire, Dual, Cave Moncalieri, Perino Escavazioni**Scientific Coordinator:** Prof. Mauro Fornaro

01.01.2003 – 31.12.2004

**PARTICIPATION IN AN INTERDISCIPLINARY RESEARCH PROJECT AIMED AT IMPROVING THE EFFICIENCY OF ALTERNATIVE REUSE OF QUARRY WASTE.****Coordinator:** University of Torino (Department of Earth Sciences)**Partners:** Piedmont Region, Sercotec S.r.l.**Scientific Coordinator:** Prof. Mauro Fornaro

## ANNEX 4 – ACADEMIC APPOINTMENTS AND TEACHING EXPERIENCE

### TEACHING ACTIVITIES AT UNIVERTISTY OF TORINO (BACHELOR AND MASTER DEGREE COURSES)

I Semestre A.Y. 2025-2026	Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 6 hours in total (lessons: 6 hours)
I Semestre A.Y. 2025-2026	Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
I Semestre A.Y. 2025-2026	Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 24 hours (lessons: 20 hours; field activities: 4 hours)
I Semestre A.Y. 2024-2025	Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 6 hours in total (lessons: 6 hours)
I Semestre A.Y. 2024-2025	Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
I Semestre A.Y. 2024-2025	Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 34 hours (lessons: 18 hours; field activities: 16 hours)
II Semestre A.Y. 2023-2024	Master Course: Laboratory of applied hydrogeology and technical geology (Cod. STE0107). 28 hours (lessons: 18 hours; exercises: 10 hours)
I Semestre A.Y. 2023-2024	Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
I Semestre A.Y. 2023-2024	Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 34 hours (lessons: 18 hours; field activities: 16 hours)
I Semestre A.Y. 2023-2024	Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
I Semestre A.Y. 2023-2024	Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 12 hours in total (lessons: 6 hours, field activity: 6 hours)
II Semestre A.Y. 2022-2023	Master Course: Laboratory of applied hydrogeology and technical geology (Cod. STE0107). 28 hours (lessons: 18 hours; exercises: 10 hours)
I Semestre A.Y. 2022-2023	Master Course: Hydrogeological risk (Cod. MFN1205). 16 hours (lessons: 16 hours)
I Semestre A.Y. 2022-2023	Master Course: Quarry and Environmental Rehabilitation (Cod. STE0106). 28 hours (lessons: 18 hours; field activities: 10 hours)
I Semestre A.Y. 2022-2023	Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 6 hours in total (lessons: 6 hours)
II Semestre A.Y. 2021-2022	Master Course: Geological Field investigation (Cod. STE0050). 28 hours in total (exercises: 12 hours; field trip: 16 hours)
II Semestre A.Y. 2021-2022	Master Course: Applied Hydrogeology (Cod. MFN0924). 24 hours in total (lessons: 6 hours, exercises: 18 hours)
I Semestre A.Y. 2021-2022	Bachelor Course: Engineering geology and elements of geotechnics (Cod. STE0053). 18 hours in total (lessons: 6 hours, exercises: 4 hours; field trip: 8 hours)
I Semestre A.Y. 2014-2015	Seminar (3 hours) titled: "Comparative illustration of the EU directives about rocks and soils from excavation activities. Case Hystories" for the Environmental Agrochemistry course of the Master of Science in Agricultural Sciences. University of Torino (24.01.2014)
May 2011	Supporting activities (lessons: 14 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
May 2010	Supporting activities (lessons: 7 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
March 2010	Supporting activities (lessons: 2 hours) for the course "Quarrying exploitation and environmental rehabilitation" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
May-June 2009	Supporting activities (lessons: 9 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
November 2008	Supporting activities (lessons: 2 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
May-June 2008	Supporting activities (lessons: 8 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
May-June 2007	Supporting activities (lessons: 10 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.

- May-June 2006 Supporting activities (lessons:10 hours) for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- December 2003 – January 2004 Supporting activities for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences – University of Torino.
- October – December 2002 Supporting activities for the course "Supplementing of applied geology" and for field trips and technical visits. Degree course in Earth Sciences - University of Torino.
- March – June 2002 Supporting activities for the course "Quarrying exploitation and environmental rehabilitation". Polytechnic of Torino.

#### TEACHING ACTIVITIES AT UNIVERTISTY OF TORINO (PhD COURSES)

- II Semester A.Y. 2024-2025 **Lecturer** for a PhD Course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. **Course title:** *Management of mineral waste (extractive waste, construction and demolition waste, and excavated soils and rocks): from waste to resource – potential and associated environmental risks*. ECTS: 4. Total hours: 20 (lectures: 14; field activities: 6).
- I Semester A.Y. 2022-2023 **Lecturer** for a PhD Course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. Course title: Sustainable management of mineral waste: from civil works (Excavated Soils and Rocks – ESR), from construction sites (Construction and Demolition Waste – C&D), and from extractive activities (Extractive Waste – EW).  
  
ECTS: 3. Total hours: 12 (lectures). From 25/11/2022 to 18/01/2023.
- I Semester 2019-2020 **Lecturer** for the PhD course within the PhD Programme *Tech4Culture (T4C)*. **Course title:** *Heritage Stones and Sustainability*. ECTS: 0.5 (2 hours). From 18/12/2019 to 18/12/2019.
- II Semester 2018-2019 **Lecturer** for the PhD course within the PhD Programme in Earth Sciences. **Course title:** *Sustainable Mining: Resource Efficiency and Environmental Risks Associated with Extractive Activity*. ECTS: 3.5. Total hours: 20 (lectures: 12; field activities: 8). From 06/06/2019 to 25/06/2019.
- I Semester 2015-2016 **Lecturer** for the PhD course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. **Course title:** *Quarry and Mining Waste: Characterisation, Impacts, Management and Exploitation*. ECTS: 3.5. Total hours: 20 (lectures: 12; field exercises: 8). From 01/11/2016 to 01/12/2016
- I Semester 2015-2016 **Lecturer** for the PhD within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. Course title: *The Earth Sciences within European funding programmes (Horizon 2020, Life plus, Interreg projects)* (6 hours).
- II Semester 2014-2015 **Lecturer** for the PhD course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. Course title: *Management and Valorisation of Waste Materials from Extractive Activities (EA), Civil Works (Excavated Soils and Rocks – ESR) and Construction Sites (Construction and Demolition Waste – C&D)*. ECTS: 4.5. Total hours: 24 (lectures: 12; field exercises: 12). From 11/05/2015 to 21/05/2015.
- I Semester 2014 -2015 **Lecturer** for the PhD within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. Course title: *"The Earth Sciences within European funding programmes (Horizon 2020, Life plus, Interreg projects)"* (6 hours).
- I Semester 2013-2014 **Lecturer** for the PhD course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. **Course title:** *Management and Valorisation of Waste Materials from Extractive Activities*. ECTS: 2.5. Total hours: 16 (lectures: 8; field exercises: 8). From 30/10/2013 to 13/11/2013.
- II Semester 2012-2013 **Lecturer** for the PhD course within the Doctoral School in Natural Sciences and Innovative Technologies, PhD Programme in Earth Sciences. **Course title:** *Management of Excavated Soils and Rocks*. ECTS: 2.5. Total hours: 16 (lectures: 8; field exercises: 8). From 10/07/2013 to 15/11/2013.

#### TEACHING ACTIVITIES AT MASTER COURSES

- II Semester A.Y. 2024-2025 Classes for the Master UNITO "Green&Sustainable Manager". Teaching: *Techniques and technologies for Circular Economy*. Topics: *Circular Economy and Extractive Industry*. (8 hours).
- December 2024 – July 2025 Classes for the Scuola di Alta Formazione – Marmo e Pietre Naturali organized by AS.MA.VE. Consorzio Marmisti Veronesi :
  - Teaching Module 4: Quarrying Activities – focus on environmental impacts of quarrying activities (2 hours).
  - Teaching Module 5: Processing Activities – focus on environmental impacts associated to dimension stone working phase (2 hours).
  - Teaching Module 10: Challenges for quarry industry: innovation, digitalisation, circular economy,

sustainability – focus on extractive waste from dimension stones: re-use, recovery, recycling (2 hours).

II Semester A.Y. 2023-2024 Classes for the Master UNITO “Green&Sustainable Manager”. Teaching: *Efficienza energetica, comunita' energetiche e nuovi materiali per l'edilizia*. Topics: *Materie prime e prime seconde per la transizione energetica*. (8 hours).

II Semester A.Y. 2022-2023 Classes for the Master UNITO “Green&Sustainable Manager”. Teaching: *Techniques and technologies for Circular Economy*. Topics: *Circular Economy and Extractive Industry*. (8 hours).

01.09.2022 – in progress Member of the Scientific Committee and teacher for the first-level biennial Master’s Degree in Green & Sustainability Manager (Manager for Sustainability and Ecological Transition) – Department of Management (University of Turin), in collaboration with COREP (<https://www.mastergreenmanager.it/>).

The Master’s programme enables participants to acquire skills both in the sustainable management of companies (including tools such as sustainable finance, sharing economy, updates on EU directives and national regulations in the fields of Circular Economy, SDGs, Climate Change, etc.) and in the most advanced techniques and technologies available to reduce a company’s climate footprint, laying the groundwork for achieving system neutrality by 2050.

The programme aims to provide specialised training for professionals able to work in synergy with staff and top management to support the green transition of Italian companies and multinationals, with a focus on: Green Deal; Sustainable finance; Sharing economy; SDGs.

#### TEACHING ACTIVITIES (for entities other than UNITO)

I Semester A.Y. 2024-2025 Lecturer for a seminar at the University of Minho (Braga, Portugal). Title of the speech: “Raw materials and Critical raw material supply: challenges for extractive industry” (01.10.2024)

II Semester A.Y. 2024-2025 External Reviewer for the evaluation of the PhD thesis of Dr. Antonello Aquilano. PhD Programme in Architecture and Urban Planning, XXXVII Cycle. University of Ferrara. Academic Years 2021–2024.

Thesis title: *Waste Treatment: Recovery of Critical Raw Materials from Granitoid Ornamental Stone Processing Waste*.

Supervisors: Prof. Luca Emanuelli and Prof. Carmela Vaccaro.

II Semester A.Y. 2023-2024 Online lessons for the modules: “Circular Economy in extractive industry”; “Mining Impacts and Risk Analysis” and “Cultural Heritage and Stones”. GEODES Project. 18 hours co-tutored by Dr. Susanna Mancini and Francesca Gambino.

I Semester A.Y. 2023-2024 Lecturer for a seminar at the University of Minho (Braga, Portugal). Title of the speech: “Sustainable mining and circular economy in extractive industry”. (23.11.2023)

I Semester A.Y. 2023-2024 Lecturer for two seminars at University of Chieti. Title of the speech: “Circular Economy and extractive industry” and “Raw materials supply: from quarry to building applications” (15.11.2023)

I Semester A.Y. 2023-2024 First opponent for the trial lecture and disputation of the Doctoral Dissertation for the Degree Philosophiae Doctor (PhD) thesis titled: “Improving the technical properties of recycled aggregates for road construction” by Dr. Solomon Adomako. University of Agder, Faculty of Engineering and Science, Specialization in Civil Engineering. Norway (18.10.2023)

II Semester A.Y. 2022-2023 Online seminars and courses for the Mozambique Universities, partner of the SUGERE project, on topics related to Sustainable Mining and Circular Economy in the extractive sector, as well as on the interaction between mining and cultural/tourism heritage. 01/05/2023 – 25/05/2023

II Semester A.Y. 2020-2021 Online lessons: “Sustainable Mining and Circular Economy associated to Extractive Industry”. (Lessons: 12 hours). SUGERE Project – teaching activities with Angola Partners. 01.02.2021 – 28.02.2021

I Semester A.Y. 2017-2018 Seminar and workshop: “Landfill mining and circular economy approach applied to extractive waste facilities”. (Seminar: 3 hours. Workshop: 4 hours). ESAIP LA SALLE graduate engineering school specialized in Digital science and Computer network and Risk prevention, Health, Safety and Environmental management.

October 2014 – March 2015 Collaboration with Prof. Michele Negre and Maria Paola Luda (UNITO) and dr Abdourahamane TANKARI DAN-BADJO, Département Sciences du sol, Faculté d'agronomie, Université Abdou Moumouni de Niamey, for teaching activities in the module: "Gestion des déchets et recyclage dans le cadre de Master RUSSADE". RUSSADE project (Project “Réseau des Universités Sahéliennes pour la Sécurité Alimentaire et la Durabilité Environnementale - R.U.S.S.A.D.E.”). ([www.russade.eu](http://www.russade.eu)).

01.03.2008-31.05.2008 Guest lecturer, teaching: “Waste management” at the course for technician specialized in “Environment, Safety and Energy”. ENFAP, Torino.

01.04.2006-30.06.2006 Guest lecturer, teaching: “Waste management” at the course for technician specialized in “Environment, Safety and Energy”. ENFAP, Torino.

01.01.2006-31.03.2006 Guest lecturer at the course for geominig and environmental technician. Professional training center of Verbania (VCO).

October 2005 – June 2006 Teaching activities at Caselletta (TO) secondary school

- 01.03.2005-30.04.2005 Guest lecturer at the course for geominig and environmental technician. Professional training center of Verbania (VCO).
- January-April 2005 Teaching activities at S.M.S. Ferrari di Avigliana (TO) secondary school–Buttigliera Alta (TO).
- 01.03.2004-31.03.2004 Guest lecturer at the course for geominig and environmental technician. Professional training center of Verbania (VCO).
- 01.02.2004-30.04.2004 Guest lecturer, teaching: “Waste management” at the course for technician specialized in “Environment, Safety and Energy”. ENFAP, Torino.
- 23.01.2003-23.01.2003 Guest lecturer for the course “Quarry exploitation”. Lombardy Regional Institute for training activities for the Public Administration – IREF, Milano.

**TUTOR OF THESIS (Bachelor, Master, PhD)**

- 01.10.2025 – 30.09.2026 **External Co-Supervisor of PhD candidate Eng. Yang Peng (University of Science & Technology Beijing, School of Safety and Resource Engineering).**  
  
PhD Project title: “Research and Engineering Application of Low-Rebound Wet Shotcrete with Unclassified Tailings as Aggregate.”  
Supervisor: Prof. Yongtao Gao (University of Science & Technology Beijing).
- A.Y. 2025 - 2026 **Supervisor of Master’s Degree Thesis: “Sustainability in the Extractive Sector: Application of Circular Economy Principles to the Reuse of Quarry Residues” by Giacomo Zulato – Master’s Degree in Applied Geological Sciences.**  
  
**Supervisor of Bachelor’s Degree Thesis: “Management, Recovery and Valorization of Quarry Sludge Produced in the Carrara Extractive Basin: Applications in the Production of Circular Plasters” by Matteo Falcone – Bachelor’s Degree in Geological Sciences.**
- A.Y. 2024 – 2025 **Supervisor of Bachelor’s Degree Thesis: “Circular Economy and Technosols: A Geological Analysis of Waste Material Reuse Practices.” by Manuela Merlino – Bachelor’s Degree in Geological Sciences. Thesis defense: 13 November 2025. Final grade: 105/110.**  
  
**Supervisor of Master’s Degree Thesis: “Valorization of Mineral Residues for the Production of Technosols for Environmental Applications.” by Fiorenza Palmieri – Master’s Degree in Environmental Biology. Thesis defense: 22 October 2025. Final grade: 96/110.**  
  
**Supervisor of Bachelor Degree Thesis: “Installation of Solar and Photovoltaic Panels in Quarry Areas” by Edoardo Cecon – Bachelor’s Degree in Geological Sciences. Thesis defense: 21 July 2025. Final grade: 105/110.**
- A.Y. 2023-2026 **Co-Supervisor of PhD candidate Dr. Linda Zaniboni (XXXIX Cycle).**  
  
PhD Project title: “Evaluation of Potentialities and Challenges Connected to Extractive Waste Management: Risk Assessment and Opportunities for the Recovery of Raw Materials from Extractive Waste Facilities.”  
Supervisor: Prof. Domenico Antonio De Luca; Co-Supervisor: Prof. Manuela Lasagna.
- 01.05.2024-30.04.2025 **External Co-Supervisor of PhD candidate Zhikai Wang (University of Science & Technology Beijing, School of Civil and Resource Engineering).**  
  
PhD Project title: “Kinetics and Control Mechanism of the Self-Cementing Reaction of Hemihydrate Phosphogypsum Based on the Effect of Initial Temperature.”  
Supervisors: Prof. Yiming Wang and Prof. Aixiang Wu (University of Science & Technology Beijing).
- 01.02.2023-31.01.2024 **External Co-Supervisor of PhD candidate Xinyan Zhao, School of Mining Engineering, Anhui University of Science and Technology, China.**  
  
Research area: “Solid Waste Backfill Mining in Mining Areas and Opportunities for New Products from Extractive Waste.”  
Supervisor: Prof. KeYang (Anhui University of Science and Technology).
- A.Y. 2022-2025 **Co-Supervisor of the PhD in Business and Management (XXXVIII Cycle), PhD fellow: Eng. Marco Casale.**  
  
PhD Project title: “Promotion and Efficiency Improvement in the Use of Municipal Waste for Territorial Management.”  
Supervisor: Prof. Alberto Ferraris; Co-Supervisor: Prof. Piercarlo Rossi  
  
Funded under Ministerial Decree D.M. 351/2022 – Dedicated Pathways: Digital and Environmental Transitions (M4C1 – Investment 3.4) and PNRR Research – Public Administration and Cultural Heritage (M4C1 – Investment 4.1).i.
- A.Y. 2015-2018 **Co-Supervisor of the PhD in Earth Sciences (XXXI Cycle), PhD fellow: Dr. Neha Mehta.**  
  
PhD Project title: “Reusing Mineral Waste Materials for Restoring Land Sustainability: Current Problems and Future Prospects.”  
Supervisor: Prof. Domenico Antonio De Luca; Co-Supervisor: Prof. Franco Ajmone Marsan  
  
PhD funded within the REMEDIATE ETN project – MARIE SKŁODOWSKA-CURIE ACTIONS, Innovative Training Networks (ITN), Call:

H2020-MSCA-ETN-2014 (Grant Agreement No. 643087).

- A.Y. 2012 – 2013** **Co-Supervisor of a Master's degree thesis:** "The Silting of Artificial Reservoirs: The Case of Lago delle Fate (Val Quarazza, VCO)" **by Francesco Spadafora** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Domenico Antonio De Luca.
- A.Y. 2012 – 2013** **Co-Supervisor of a Master's degree thesis:** "Designing the Use of Excavated Soils and Rocks in Territorial and Environmental Restoration Projects" **by Marianna Potì** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Roberto Ajassa.
- A.Y. 2010-2011** **Co-Supervisor of a Master's degree thesis:** "Production of Recycled Aggregates in the Metropolitan Area: The Case South of Turin of a Historic Quarry and a Dedicated Plant" **by Federica Musso** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2010-2011** **Co-Supervisor of a Master's degree thesis:** "Experimental Study on the Reuse of Sawing Sludge for the Production of Growing Substrate." **by Alessandro Felci** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2009-2010** **Co-Supervisor of a Master's degree thesis:** "Study of a Below-Water-Table Quarry: Extractive and Plant Engineering Aspects for the Valorization of Produced Aggregates." **by Debora Casetta** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2007-2008** **Co-Supervisor of a Bachelor's degree thesis:** "Secondary Recovery of Natural Materials for the Production of Engineered Stone Aggregates: Technical Aspects and Laboratory Characterization in the Case of Quarry Quartzites" **by Giulio Biglia** – Bachelor's Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2007-2008** **Co-Supervisor of a Master's degree thesis:** "The Granite Resource in the VCO Area: Geo-Mining Issues of Quarries, Valorization of the Stone Heritage, and Applications in Local and National Construction" **by Pasquale Imbesi** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2007-2008** **Co-Supervisor of a Master's degree thesis:** "Geological and Technical Aspects of Quarrying and On-Site Application of Historic Marbles from the VCO Area" **by Luca Mascarino** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2007-2008** **Co-Supervisor of a Master's degree thesis:** "The Litho-Application Significance of Serizzo and Ossola Beola: From Quarries to Their Use in Construction. Historical Implications and Valorization of Extractive Activities within a Regionally Significant Geo-Mining Context" **by Emanuele Destefani** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2006-2007** **Co-Supervisor of a Master's degree thesis:** "Applied Geological-Technical Study of Granite Deposits in the Lake District (Province of Verbano-Cusio-Ossola) for the Comprehensive Valorization of the Resource" **by Alberto Trentin** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2005-2006** **Co-Supervisor of a Bachelor's degree thesis:** "Application of Reconstituted Soil for the Environmental Restoration of a Waste Dump in the Rorà Stone Basin" **by Simone De Fazio** – Degree Programme in Geological Sciences, Faculty of Mathematical, Physical and Natural Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2004-2005** **Co-Supervisor of a Master's degree thesis:** "Geological-Technical Study of Barge Stone Waste Dumps" **by Andrea Gioia** – Degree Programme in Geological Sciences, University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2004-2005** **Co-Supervisor of a degree thesis:** "Technical and Administrative Feasibility of Reusing Sawing Sludge in Quarry Sites for Environmental Restoration" **by Enrico Corio** – Degree Programme in Environmental and Territorial Engineering, Polytechnic University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2002-2003** **Co-Supervisor of a degree thesis:** "Treatment of Alluvial Materials in a Natural Aggregate Quarry: Technical Analysis and Proposals" **by Fabrizio Farinetti** – Degree Programme in Environmental and Territorial Engineering, Polytechnic University of Turin. **Supervisor:** Prof. Mauro Fornaro.
- A.Y. 2002-2003** **Co-Supervisor of a degree thesis:** "Production of Construction and Demolition Waste in the Redevelopment of Brownfield Sites: The Turin Case Study" **by Massimiliano Milone** – Degree Programme in Environmental and Territorial Engineering, Polytechnic University of Turin. **Supervisor:** Prof. Mauro Fornaro.

#### SUPPORTING ACTIVITIES FOR CURRICULA TRAINING AT UNITO

- A.Y. 2025-2026** **Academic Supervisor for the Erasmus Training Activity** at the Budapest University of Technology and Economics (Faculty of Civil Engineering). **Trained Student: Giacomo Zulato** (2 months)
- A.Y. 2024-2025** **Supervisor for the curricular training activities** at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). **Trained student: Manuela Merlino** (100 hours).
- Supervisor for the curricular training activities** at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). **Trained student: Matteo Falcone** (100 hours).
- Academic Supervisor for the curricular training activities** at Planeta Studio Associato(100 hours). **Trained student: Edoardo Ceccon.**

Academic Supervisor for the curricular training activities at Cave Germaire (50 hours) and Cavit (50 hours). Trained student: Marcello Peyrot.

A.Y. 2023-2024 Supervisor for the curricular training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained student: Laura Turbessi (50 hours).

Supervisor for the curricular training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained student: Giacomo Zulato (50 hours).

Academic Supervisor for the curricular training activities at MINERALI INDUSTRIALI s.r.l. Trained student: Giacomo Zulato (100 hours).

**SUPPORTING ACTIVITIES FOR CURRICULAR TRAINING (for entities other than UNITO)**

A.Y. 2022-2023 Supervisor for the external training activities at the Laboratory of Mineral Dressing and Sampling (Earth Sciences Department – UNITO). Trained students: Dr. Antonio Tazzini (trained fellow for the Master Class in Mining engineering applied to ornamental stone quarries (II edition), organized by POLITO).

01.07.2013 – 30.09.2022 Supervisor of 16 external students from ESAIP (graduate school for engineers. St. Barthelemy d'Anjou Cedex – France) 1-2 months stage activities on topics connected to circular economy and landfill mining in extractive industry; sustainable mining.

**MEMBER OF SELECTION COMMITTEES FOR SCHOLARSHIPS/RESEARCH GRANTS AND RESEARCH FELLOWSHIPS**

- |            |            |   |
|------------|------------|---|
| 19.01.2026 | 19.01.2026 | <p><b>Member of the Selection Committee for Call No. 26/2025/BR/ST.</b><br/> <b>Title:</b> Optimization of the Acid Flotation Process through a Chemometric Approach to Reduce Its Environmental Impact.<br/> <b>Scientific Coordinator:</b> Prof. Mery Malandrino.<br/> <b>Awarded to:</b> Dr. Riccardo Cecire.</p> <p><b>President of the Selection Committee for Call No. 24/2025/BR/ST and Scientific Coordinator for one research scholarship (6 months).</b></p>  |
| 19.01.2026 | 19.01.2026 | <p><b>Title:</b> Economic and Environmental Feasibility Analysis in Innovative Production Cycles.<br/> <b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.<br/> <b>Scientific Co-Coordinator:</b> Prof. Enrica Vesce.<br/> <b>Awarded to:</b> Dr. Valentina Simone.</p> <p><b>Presidente della Commissione Giudicatrice per il Bando n. 25/2025/BR/ST e responsabile scientifico per n.1 Borsa di Studio di ricerca (12 mesi)</b></p> <p><b>President of the Selection Committee for Call No. 25/2025/BR/ST and Scientific Coordinator for one research scholarship (12 months).</b></p>  |
| 19.01.2026 | 19.01.2026 | <p><b>Title:</b> Study of Environmental Impacts and Sustainability of Production Processes for the Recovery of Critical Raw Materials from the Stone Sector.<br/> <b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.<br/> <b>Scientific Co-Coordinator:</b> Prof. Enrica Vesce.<br/> <b>Awarded to:</b> Dr. Susanna Mancini.</p> <p><b>Member of the Selection Committee for Call No. 17/2024 for one research scholarship (3 months).</b><br/> <b>Title:</b> Assessment of Groundwater Resources.<br/> <b>Scientific Coordinator:</b> Prof. Domenico Antonio De Luca.<br/> <b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.<br/> <b>Awarded to:</b> Dr. Giovanni Pigozzi.</p> <p><b>President of the Selection Committee for Call No. 4/2024 and Scientific Coordinator for one research scholarship (3 months).</b><br/> <b>Title:</b> Circular Economy in the Extractive Industry: Valorization of Marble Slurry from the Carrara Marble Quarries.<br/> <b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.<br/> <b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.<br/> <b>Awarded to:</b> Dr. Antonio Tazzini.</p> <p><b>President of the Selection Committee for Call No. 1/2024 and Scientific Coordinator for one research scholarship (11 months).</b><br/> <b>Title:</b> Economic Impacts and ESG Frameworks in the Mining Waste Sector: Sector Analysis and Evaluation of Economic Impacts and ESG Indicators.<br/> <b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.<br/> <b>Scientific Co-Coordinator:</b> Prof. Piercarlo Rossi.<br/> <b>Awarded to:</b> Dr. Francesca Cacciolo.</p> <p><b>Member of the Selection Committee for Call No. 17/2023 for one research scholarship (6 months).</b><br/> <b>Title:</b> Study of Climate Variability and Its Impacts on Groundwater Resources in Piedmont.<br/> <b>Scientific Coordinator:</b> Dr. Manuela Lasagna.<br/> <b>Scientific Co-Coordinator:</b> Prof. Domenico Antonio De Luca.<br/> <b>Awarded to:</b> Dr. Elena Egidio.</p> |

29.12.2023	31.01.2024	<p><b>President of the Selection Committee for the “Call for Research Programmes” – IV Round 2023 – PNRR Projects (Selection No. DST.2023.08) and Scientific Coordinator for one research fellowship activated within the POC-DST framework (12 months + 6 months extension).</b></p> <p><b>Title:</b> Raw Materials, Critical Raw Materials and Secondary Raw Materials: Development of a Decision Support Tool for the Assessment of Sustainable Extraction from Mining Waste Facilities (PNRR).</p> <p><b>Scientific Co-Coordinator:</b> Dr. Giovanna Antonella Dino.</p> <p><b>Awarded to:</b> Dr. Susanna Mancini (from 01 February 2025 to 31 August 2025).</p>
20.12.2023	23.01.2024	<p><b>Member of the Selection Committee for Call No. 16/2023 for one research scholarship (6 months).</b></p> <p><b>Title:</b> Reconstruction of the Hydrogeological Framework of Piedmont.</p> <p><b>Scientific Coordinator:</b> Prof. Domenico Antonio De Luca.</p> <p><b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Daniele Cocca.</p>
21.06.2023	18.07.2023	<p><b>President of the Selection Committee for Call No. 06/2023 and Scientific Coordinator for one research scholarship (3 months).</b></p> <p><b>Title:</b> Operational Tools for the Transition toward Sustainable Mining.</p> <p><b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.</p> <p><b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Susanna Mancini.</p>
05.06.2023	27.06.2023	<p><b>President of the Selection Committee for Call No. 05/2023 and Scientific Coordinator for one research scholarship (3 months + 3-month extension).</b></p> <p><b>Title:</b> Study of Sustainable Solutions for the Management and Recovery of Mining Waste.</p> <p><b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.</p> <p><b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Antonio Tazzini.</p>
07.12.2022	24.01.2023	<p><b>President of the Selection Committee for the “Call for Research Programmes” – V Round 2022 – PNRR – Department of Earth Sciences, and Scientific Coordinator for one research fellowship activated within the PNRR NODES framework (12 months + 12 months + 3 months extension).</b></p> <p><b>Title:</b> Study of Sustainable Solutions for the Management and Exploitation of Mining Waste in Civil and Environmental Applications.</p> <p><b>Scientific Coordinator:</b> Dr. Giovanna Antonella Dino.</p> <p><b>Awarded to:</b> Dr. Francesca Gambino (from 01 May 2023 to 15 July 2025).</p>
21.12.2022	20.01.2023	<p><b>Member of the Selection Committee for Call No. 17/2022 for one research scholarship (6 months).</b></p> <p><b>Title:</b> Reconstruction of the Regional-Scale Hydrogeological Model of the Piedmont Subsurface.</p> <p><b>Scientific Coordinator:</b> Prof. Domenico Antonio De Luca.</p> <p><b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Letizia Stellino.</p>
20.06.2022	15.07.2022	<p><b>Member of the Selection Committee for Call No. 6/2022 for one research scholarship (6 months).</b></p> <p><b>Title:</b> Hydrogeological Research Activities on Climate Change and Data Collection.</p> <p><b>Scientific Coordinator:</b> Prof. Domenico Antonio De Luca.</p> <p><b>Scientific Co-Coordinator:</b> Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Susanna Mancini.</p>
13.12.2021	28.12.2021	<p><b>Member of the Selection Committee and Co-Scientific Coordinator for the call for applications for one research scholarship (4 months).</b></p> <p><b>Title:</b> Sustainable Use of Georesources in Earth Sciences Education.</p> <p><b>Scientific Coordinator:</b> Prof. Domenico Antonio De Luca.</p> <p><b>Scientific Co-Coordinators:</b> Dr. Giovanna Antonella Dino and Dr. Manuela Lasagna.</p> <p><b>Awarded to:</b> Dr. Susanna Mancini.</p>
01.09.2021	07.02.2022	<p><b>Member of the Tender Commission for the awarding of technical architectural and engineering services aimed at planning the tourist valorisation interventions of the Kreas Mining Park (CIG 8878627AC6).</b></p>
01.06.2013	30.06.2013	<p><b>Member of the Selection Committee for the award of a professional appointment pursuant to Art. 104 of the RAFC, concerning: assistance with in situ and laboratory testing for the characterization of sawing sludge, and processing of hydrogeological data related to soil permeability, within the research project entitled “Stone Materials of Lake Maggiore and the Ossola Area: Valorization of Sawing Sludge from the Ossola Basin”, funded by the Chamber of Commerce, Industry, Handicraft and Agriculture of Verbano Cusio Ossola.</b></p>

Alpignano (TO), 02.04.2026

PhD. Eng. Giovanna Antonella DINO