

PERSONAL INFORMATION

Isabella Serena LISO


e-mail:

- serenaliso.uniba@gmail.com
- isabella.liso@uniba.it

Sex Female

Nationality Italian

WORK EXPERIENCE

Research activities

Main research activities: karst hydrogeology, groundwater monitoring and modeling, studies in underground environments (natural and artificial cavities), geological and geomorphological analysis of karst features, evaluation of natural and anthropogenic hazards in karst, seawater intrusion in coastal aquifers, coastal karst, sinkholes and their effects on the human environment.

From 02/2023 to 02/2026

RTDa

Research funded by NextGenerationEU - Piano Nazionale di Ripresa e Resilienza, Missione 4 "Istruzione e ricerca" Componente 2 "Dalla ricerca all'impresa" Investimento 1.3 – Creazione di "Partenariati estesi alle università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base" – RETURN - Research for identification and analysis of the driving factors controlling the distribution and occurrence of sinkhole phenomena in coastal areas and inland plains, with particular reference to the action of groundwater and its effects. Assessment through numerical modeling the different contributions of the above factors in the sinkhole trigger; evaluating the economic and social impacts of sinkholes on the built-up environment and the infrastructures.

From 11/2022 to 02/2023

Post-doc position

Research funded by Autorità di Bacino Distrettuale dell'Appennino Meridionale. Topic: "Analisi di dettaglio multi-scala del sistema cavità (naturali e artificiali): individuazione degli elementi geologici: morfologici e idrogeologici alla base della presenza di cavità, e contributo alla definizione di procedure per la valutazione della stabilità".

Research on spatial distribution of artificial cavities, evaluation of their present conditions, and stability analyses, with reference to the possibility of sinkhole occurrence.

University of Bari Aldo Moro, Department of Earth and Environmental Sciences.

From 12/2021 to 04/2022

Post-doc position

Research funded by the European project: "UIA - AIR BREAK: Co-producing healthy clean commuting air spots in town." Topic: infiltration processes analyses in the unsaturated zone, for a effective freshwater resources management in a context of climate change.

Research on modeling the seawater intrusion in coastal aquifer at the low Emilia Romagna coastal plan.

University of Ferrara, Department of Physics and Geological Sciences.

From 11/2014 to 11/2018

Fellowship at CNR-IRSA

Research in geology, hydrogeology, groundwater pollution and environmental risk, groundwater modeling, monitoring and management of karst groundwater resource.

CNR-IRSA (National Research Council of Italy – Water Research Institute, Bari, Italy).

From 12/2013 to 12/2015

Collaborator in engineering-geological company (Dr. Geol. Fallacara Gianluca, Bitonto, Italy)

Geological field survey and mapping, field work and interpretation of geophysical surveys. Scientific-technical / regulatory dissemination on green energy (Low enthalpy geothermics. Geothermics in association with photovoltaics), planning and construction of green energy plants. Elaboration of technical geological, hydrogeological and engineering reports.

EDUCATION

- From 09/2005 to 07/2009 **Bachelor's degree in Structural Geology. Title "The Bagno Vignoni travertine (Toscana, Italy)"** (supervisor Prof. D. Liotta). Grade 106/110.
Università degli Studi di Bari Aldo Moro, Bari, Italy.
Mapping, geothermics, structural geology
- From 09/2009 to 07/2012 **Master's degree in Geomorphology. Title: "Geomorphological characterization of Monte Somma drainage system network (Campania, Italy)"** (supervisors Prof. D. Capolongo, Prof. R. Sulpizio). Grade: 110/110 cum laude.
Università degli Studi Aldo Moro, Bari, Italy.
Geomorphology, Matlab and ArcGIS, modelling.
- From 11/2018 to 03/2022 **PhD in Geosciences, XXXIV cycle. Title: "Hydrogeological characterization and groundwater modeling in the Apulian karst (southern Italy)"** (supervisor Prof. M. Parise).
Università degli Studi Aldo Moro, Bari, Italy.
Research in karst hydrogeology in two study sites in Apulia Region. Geological and geomorphological characterization, geological-structural survey, karst geomorphological mapping, research activity in cave systems, groundwater monitoring and modeling, ecological survey.

TRAINING

- From 06/2011 to 05/2012 **Internship at GEOTEK Plus company– applied geophysics**
Via Giuseppe De Marinis, 13. Carbonara, BA, Italy. Geological survey, geophysical survey.
- 12/2012 **IELTS. Language certification.**
Overall score: 6.5. Listening: 5, Reading: 7, Writing: 6, Speaking: 7
- 06/2013 **Field assistant activity in Lockyer Valley, Queensland (Australia).**
Coring in wet sand deposits, risk assessment for The Big Flood Drilling Trip #3. June 12, 2013. Griffith University, Nathan Campus 4111. Brisbane, Queensland (AU).
Natural Hazards, flood, drilling field.
- From 09/2014 to 11/2014 **Training course: environmental hiking guide**
Puglia SMILE: Programma di sviluppo rurale Puglia. F.E.A.S.R. 2007-2013. ASSE III – Qualità della vita nelle zone rurali e diversificazione dell'economia rurale. Misura 331 – Azione 1 "Formazione"
- 06/2015 **Short course - Modelling coupled flow processes in porous media. Prof. Jean Vaunat, Universitat Politecnica de Catalunya, Barcelona**
Technical University of Bari, Department of Civil, Environmental, Building Engineering and Chemistry (DICATECh). June 30 – July 1, 2015. Bari, Italy. Modelling, Hydrogeology, Data management.
- 06/2015 **Short course – An introduction to flexible regression for environmental data. Prof. Adrian Bowman, University of Glasgow.**
Gruppo di Ricerca per le Applicazioni della Statistica ai Problemi Ambientali, GRASPA, June 17, 2015. Bari, Italy. Geostatistics.
- 06/2018 **International Karstological School "Classical Karst": Karst hydrogeology – Research trends and Applications**

Karst Research Institute – Research center of the Slovenian Academy of Science and Arts. (Postojna, Slovenia). June 17-21, 2019

06/2019 **International summer school – GeoComputation Using Free & Open Source Software.**

Organized by Spatial ecology (<http://spatial-ecology.net/>), Yale University, USA.

Held at Università degli Studi della Basilicata, Matera, Italy. June 3-7, 2019. R, GIS, GRASS, GDAL, Python, Bush, Machine Learning, Neural network development.

02-03/2020 **Training experience at Western Kentucky University (USA).**

Karst groundwater research and analyses, karst hazards, sinkholes, field activity for groundwater monitoring in karst settings.

Western Kentucky University (USA).

Karst hydrogeology, natural hazards, sinkholes.

From 10/2020 to 11/2020

International Autumn School Higher Training Course: digital water management and water-related agroecosystem services: geo-statistics, hydro--informatics and groundwater flow numerical modelling.

Online course, organized by Università Sant'Anna, Pisa. October 12 – November 23, 2020 (40 hours, final test passed, 2 CFU acquired). Numerical Modelling, Hydrogeology, Data management, Geostatistics

02/2021 **Short course - Visual Karsys: a web tool for modelling karst aquifers in 3D.**

Online course, organized by Swiss Institute for Speleology and Karst Studies (ISSKA). February 3-4, 2021.

11/2021 **FlowPath 2021 pre-course: Introduction to modelling of underground water path**

MODFLOW. Course organized by Università degli Studi di Napoli Federico II e Politecnico di Milano. Napoli, November 29-30, 2021

06/2022 **MedSal summer school: An induction workshop for young scientists' on advanced coastal aquifer salinization study and assessment tools**

Organized by Polytechnic of Bari in the framework of PRIMA European project: MedSal. June 27-30, 2022.

Application of environmental isotopes in groundwater salinization identification and assessment. Hydrogeological and hydrogeochemical modeling in groundwater salinization problems. Application of novel methods in geostatistics and artificial intelligence in hydrogeology, with emphasis on salinization issues. Compilation, operation and maintenance of monitoring network with a focus on coastal zones.

FEFLOW, MixCel, R and R-Studio

From 29/10/2022 to 01/11/2022

Seminario nazionale: monitoraggi ambientali in grotte naturali.

Organized by SSI (Società Speleologica Italiana). Cala Gonone, Dorgali (NU).

Monitoring system in caves: application and set-up. Microclimate (air flow direction, air temperature, air humidity); groundwater (water flow, tracer tests, water quantity, spring monitoring); biodiversity (flora, fauna, bacteria); past climate (stalactite and stalagmite dating).

HONOURS AND GRANTS

02/2013 Recipient of scholarship in the Doctor of Philosophy on flood-hazards in New South Wales and Victoria at the Griffith School of Environment, Queensland, Australia.

I renounced to the scholarship after a 3-month period in Australia. May – July, 2013.

10/2020 - 11/2020

Recipient of one of the eight positions available for European students for attendance to “International Autumn School Higher Training Course: digital water management and water-related agroecosystem services: geo-statistics, hydro--informatics and groundwater flow numerical modelling”. Università Sant'Anna, Pisa, Italy. October 12 – November 23, 2020.

06/2022

Recipient of one of the twenty positions available for attend in person the “MedSal course: An induction workshop for young scientists' on advanced coastal aquifer salinization study and assessment tools”. Bari, Italy, June 27-30, 2022.

03/2023

Award recipient of Barry F. Beck scholarship for the 17th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst. University of South Florida in Tampa, Florida, USA. Conference date: March 27-31, 2023.

PERSONAL SKILLS

Mother tongue(s)	Italian				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
	English	English	English	English	English
	C1	C1	C1	C1	C1

Computer skills Microsoft Office™ tools, Mac user, Adobe Illustrator, Coreldraw, ArcGIS, Q-gis, Matlab, Caesar Iisflood, Grapher, Surfer, Visual Karsys open software, Visual Karsys, MODFLOW, FEFLOW, MixCel.

Other skills Active caver since 2018.

Driving licence B

Projects: participation in research projects, including funded and competitive grants

1. 03/2024 – 09/2025: Interreg Italy-Croatia, Co-funded by the European Union. ACTION: “Increasing coastal ecosystem resilience to climate change”.
2. 2024 - present: European Project, Co-funded by the Erasmus+ Programme of the European Union. NEREIDAS: “impleNtation of innovativE educational actions foR thE protectIon of mexico anD colombiA marine environments”
3. 06/2024 - 06/2025: Founded by Direzione Ricerca, Terza Missione e Internazionalizzazione UniBa. ERC SEEDS UNIBA. MIRKA: “MIitigation of Risks in coastal KARst.”
4. 02/2023-02/2026: PNRR (Piano Nazionale di Ripresa e Resilienza). Missione 4 “Istruzione e ricerca” Componente 2 “Dalla ricerca all’impresa” Investimento 1.3 – Creazione di “Partenariati estesi alle università, ai centri di ricerca, alle aziende per il finanziamento di progetti di ricerca di base” – RETURN - Research for identification and analysis of the driving factors controlling the distribution and occurrence of sinkhole phenomena in coastal areas and inland plains, with particular reference to the action of groundwater and its effects. Assessment through numerical modeling the different contributions of the above factors in the sinkhole trigger; evaluating the economic and social impacts of sinkholes on the built-up environment and the infrastructures.
5. 11/2021-02/2023: "Analisi di dettaglio multi-scala del sistema cavità (naturali e artificiali): individuazione degli elementi geologici: morfologici e idrogeologici alla base della presenza di cavità, e contributo alla definizione di procedure per la valutazione della stabilità". Funded by Autorità di Bacino Distrettuale dell’Appennino Meridionale. Field surveys, database building, attendance to the project meetings, cooperation in decision making, development of related scientific research, collaboration in writing scientific reports and deliverables.
6. 09/2021-01/2023: Accordo di partenariato pubblico tra Comune di Melendugno (LE) e Dip. Scienze della Terra e Geoambientali, Univ. Aldo Moro di Bari. Recognition of instability sites in the area of Roca Vecchia and karst system of *Grotte della Poesia*. Field surveys, groundwater monitoring, development of related scientific researches, collaboration in writing scientific reports and deliverables.
7. 12/2021-04/2022: UIA - AIR BREAK: *Co-producing healthy clean commuting air spots in town* (<https://airbreakferrara.net/>). Attendance to the project meetings and cooperation in decision making.
8. 09/2018-10/2019: Convenzione tra il Comune di Ginosa in Puglia e il Dipartimento di Scienze della Terra e Geoambientali dell’Università Aldo Moro di Bari. Valutazione preliminare della suscettibilità a crolli per la presenza di cavità artificiali, e caratterizzazione geologico-tecnica dell’ammasso roccioso calcarenitico del territorio di Ginosa. Field surveys and collaboration in the map elaborations.
9. 04/2017-04/2019: Attività prioritarie per l’attuazione dell’art. 45 “Interventi per esplorazione dei fenomeni carsici”, comma 1 della L.R. n. 45 del 30/12/2013. Funded by Apulia Region (Assessorato all’Ambiente). Field and cave surveys at the two karst sites in Apulia, collaboration in the management of project activities, groundwater monitoring actions and modeling, development of related scientific researches, organization and participation to dissemination events of the project
10. 11/2014-12/2016: Drink-Adria: IPA Adriatic Cross-Border Cooperation Programme (<http://drinkadria.fgg.uni-lj.si>). Attendance, as CNR representative, to the project meetings (Serbia, Bosnia Herzegovina, Slovenia); field survey at the pilot area of Ostuni and interpretation of related data; collaboration in writing scientific reports and deliverables.

Chair experience: experience as chair or co-chair of scientific sessions at conferences, workshops, or symposia.

11. Chairman della Oral Session HS8.2.14 “Groundwater residence times and flow paths, and issues in karst hydrogeology”, nell’ambito della General Assembly of the European Geosciences Union 2024, Vienna (Austria), April 17, 2024.
12. Chairman della Poster Session HS8.2.14 “Groundwater residence times and flow paths, and issues in karst hydrogeology”, nell’ambito della General Assembly of the European Geosciences Union 2024, Vienna (Austria), April 17, 2024.
13. Chairman of the International Congress “Eurokarst 2024”, Rome (Italy), 10-14 June 2024.
14. Convener della Sessione S26 “Sinkholes vs. land subsidence: assessment of the geological hazards and impacts on environment and society” nel Congresso congiunto Società Geologica Italiana (SGI) – Società Italiana di Mineralogia e Petrologia (SIMP) "Geology for a Sustainable Management of Our Planet", Bari, 3-5 settembre 2024.
15. Convener della Sessione S27 “Caves, mines and other underground spaces as field laboratories in environmental geology” nel Congresso congiunto Società Geologica Italiana (SGI) – Società Italiana di Mineralogia e Petrologia (SIMP) "Geology for a Sustainable Management of Our Planet", Bari, 3-5 settembre 2024.
16. Chairman della Poster Session HS8.2.4 “Toward a better comprehension of karst hydrogeology: multi-disciplinary approaches for water resource management and mitigating hazards in karst environment”, nell’ambito della General Assembly of the European Geosciences Union 2023, Vienna (Austria), April 24, 2023.
17. Incontro di studio “Ricerche e studi in territori carsici”, Bari, 7 aprile 2022, Aula Magna, Dipartimento di Scienze della Terra e Geoambientali, Università Aldo Moro di Bari.
18. Eurokarst 2022, Malaga, Spain, June 22-25, 2022. Session “Methods to study karst aquifers”. Chairs: Kovacs A. and Liso I.S.
19. General Assembly of the European Geophysical Union (EGU 2022), Austria, Vienna, May 23.27, 2022. Session HS8.2.4 “Field, modeling, and laboratory approaches for the assessment of hydrogeological and engineering problems in karst - Characterization, mapping and simulation of karst features”.

Convener experience: experience in convening or co-convening scientific sessions, symposia, or thematic panels at conferences.

1. General Assembly of the European Geosciences Union, Session HS8.2.14 “Groundwater residence times and flow paths, and issues in karst hydrogeology”, Vienna (Austria), April 17-18, 2024.
2. General Assembly of the European Geophysical Union (EGU 2023), Austria, Vienna, May 24.28, 2023. Session HS8.2.4 “Toward a better comprehension of karst hydrogeology: multi-disciplinary approaches for water resource management and mitigating hazards in karst environment”. Conveners: Parise M., Jourde H., Liso I.S., Kordilla J. and Bittner D.
3. General Assembly of the European Geophysical Union (EGU 2022), Austria, Vienna, May 23.27, 2022. Session HS8.2.4 “Field, modeling, and laboratory approaches for the assessment of hydrogeological and engineering problems in karst - Characterization, mapping and simulation of karst features”. Conveners: Parise M., Bittner D., Kordilla J., Liso I.S. and Jourde H.

Congresses organization: participation in the organization of scientific congresses, including roles in organizing committees and scientific or administrative secretariats

1. Organization of International Workshop on “Coastal karst”, held in Bari (Italy), at the Earth and Environmental Sciences Department, University Aldo Moro in Bari, February 6, 2025.
2. Organization of International Congress “Eurokarst 2024”, Rome (Italy), 10-14 June 2024.
3. Member of the Scientific committee of the National Congress SGI-SIMP 2024, Bari (Italy), 2-5 September, 2024
4. Member of the Scientific committee of the International Congress “Eurokarst 2024”, Roma (Italy), 10-14 June, 2024.
5. December 20, 2022. Workshop “Sharing different experiences of explorations, sampling and studies in a transitional water system”. Horizon Europe Seeds, Progetto HOPE: a Holistic approach for the assessment of environment and human health risks due to Pollution in a transitional water system. Aula Magna, Department of Biosciences, Biotechnologies and Environment, Università Aldo Moro, Bari, Italy.
6. October 25, 2019. Giornata di Studio “L’uso di droni e laser scanner in applicazioni ambientali e geologico-ingegneristiche”. International Association of Engineering Geology, Italian National Group, Aula Magna, Dipartimento Scienze della Terra e Geoambientali, Università Aldo Moro, Bari, Italy.
7. May 17, 2019: National meeting “Focus della Ricerca in Geologia Applicata”. Università degli Studi di Bari, Aldo Moro, Department of Earth and Environmental Sciences, Bari, Italy.

Invited speaker: invitations to deliver lectures or talks at conferences, workshops, or academic institutions.

1. Parise M., Liso I.S. & Margiotta S., 2024, Apulian karst hydrogeology. Workshop “The subterranean pace of life”, Lecce, 13 maggio 2024.
2. Parise M., Andriani G.F., Diprizio G., Liso I.S. & Lollino P., 2024, Cavità artificiali: necessità di conoscenza a fini di mitigazione del rischio, e di valorizzazione. Incontri di Cultura, Storia, Archeologia a Ginosà “Progetto Ginosà: Archeologia e Paesaggi”, Ginosà, 24 maggio 2024.
3. D’Ettorre U.S., Liso I.S. & Parise M., 2024, I fenomeni di desertificazione nelle aree carsiche. Giornata di Studio 30° Anniversario Convenzione UNCCD, Giornata Mondiale della Desertificazione e della Siccità, Messina-Roma, 17 giugno 2024.
4. April 12, 2023. Salinizzazione degli acquiferi. Invited speaker for the initiative “Cogli l’acqua quando piove”, otto incontri per riflettere intorno alla risorsa acqua. Organized by Gruppo Escursionistico e Speleologico Ostunese (GEOS).
5. April 13, 2023. L’acqua negli ambienti carsici. Invited speaker for the interdisciplinary course “L’acqua sul Pianeta Terra: bene prezioso, risorsa naturale, pericolo”, Competenze trasversali A.A. 2023. Organized by Aldo Moro University, Departments of Earth and Environmental Sciences and Interdisciplinary Department of Medicine, Section of Hygiene.
6. May 24, 2023. Il fenomeno di intrusione marina. Invited speaker for the interdisciplinary course “L’acqua sul Pianeta Terra: bene prezioso, risorsa naturale, pericolo”, Competenze trasversali A.A. 2023. Organized by Aldo Moro University, Departments of Earth and Environmental Sciences and Interdisciplinary Department of Medicine, Section of Hygiene.
7. November 03, 2022. Studi di idrogeologia carsica negli acquiferi pugliesi. Expert Speaker for graduate course (Corso di Laurea in Scienze Geologiche – L34) in hydrogeology at the University of Bari, Department of Earth and Environmental Sciences.
8. November 26, 2022. Esplorazioni, conoscenza e ricerca scientifica: il caso delle vore di Galatina. Invited speaker for Regional Congress of Speleologists “Raccontando i campi”. Organized by Gruppo Grotte Grottaglie (GGG) and Federazione Speleologica Pugliese (FSP).
9. September 23, 2022. Sinkholes in zone costiere: il caso della Puglia (Italia meridionale). Invited speaker at the online seminar “I pomeriggi dell’AIGA. Seminari di Geologia Applicata. Gestione sostenibile delle aree costiere”. Organized by Associazione Italiana di Geologia Applicata e Ambientale (AIGA) and Consiglio Nazionale dei Geologi.

10. April 07, 2022. L'importanza della risorsa idrica sotterranea nel carsismo pugliese. Invited speaker at the seminar "Ricerche e studi in territori carsici". Università degli Studi di Bari, Aldo Moro, Department of Earth and Environmental Sciences, Bari, Italy.
11. May 20, 2021. Indagini idrogeologiche nelle grotte attive in Puglia. Cave Science Pills. Online course organized by Società Speleologica Italiana.
12. May 7, 2020. Apulian Karst Groundwater. Hydrogeological characterization, recharge and flow modeling. Expert Speaker for the WKU graduate course in Karst Geoscience. Western Kentucky University, Bowling Green, KY, USA.
13. November 22, 2018. Finestre aperte sulle acque sotterranee: l'Inghiottoio di Masseria Rotolo. Biblioteca Civica "Prospero Rendella", Monopoli, Italy.

Editorial activity

Editor/Guest Editor:

1. Fiorillo F., Parise M., Petitta M., Leone G., Liso I.S. & Lorenzi V. (Editors), 2025, Eurokarst 2024. Advances in the Hydrogeology of Karst and Carbonate Reservoirs. Advances in Karst Science, Springer Cham, ISBN 978-3-031-84337-2, 206 pp.
2. Parise M., Liso I.S., Riva A. & Leone G. (Editors), 2025, Recent research advancements on subsidence, sinkholes and karst. Rendiconti Società Geologica Online, vol. 67, ISSN 2035-8008.
3. Liso I.S., D'Ettore U.S., Gori F., Lorenzi V., Fiorillo F., Parise M. & Petitta M. (Eds.) Eurokarst 2024 Abstract Book, 281 pp.
4. Liso I.S. & Parise M. (Eds.), 2022, Atti del workshop "Ricerche e studi in territori carsici". Geologi e Territorio, n. 2/2022, 56 pp., ISSN 1974-1189.
5. Special issue on "Flow and transport processes in complex karst systems: mapping, characterization and modeling." in Hydrological Sciences Journal. Guest editors: Daniel Bittner, Hervé Jourde, Jannes Kordilla, Isabella Serena Liso, Mario Parise. Proposal accepted by the journal at November 30, 2022

Peer Review: activity as peer reviewer for international scientific journals.

Reviewer since 2018 of the following international journals:

1. Science of the Total Environment
2. Environmental Earth Sciences
3. Natural Hazard and Earth System Sciences
4. Water
5. Journal of Cave and Karst Studies
6. Scientific Report
7. Quaternary
8. International Journal of Disaster Risk Reduction
9. Sinkhole Conference 2023 (USA)

External Reviewer for PhD thesis:

1. PhD thesis – PhD student: Pietro Rai. PhD course: Earth science, fluid-dynamics and mathematics. Interactions and methods. Cicle: XXXVIII (2022/2025). Title: Geomorphological map of the Trieste classical karst: mapping and analysis of the major morphotypes.

Teaching activity: including lectures, courses, and academic tutoring.

1. December 2025 - February 2026. Course for "Scuola di Specializzazione in Igiene e Medicina Preventiva": Fondamenti di Geologia in Sanità Pubblica. 12 h
2. June - July 2025. Summer School VS2 – RETURN Academy. Cliff retreat at Melendugno-Torre dell'Orso (Apulia, Italy)
3. March - May 2025. PhD course, Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY": Water in Earth System. 3 CFU
4. January - February 2025. Course for "Scuola di Specializzazione in Igiene e Medicina Preventiva": Fondamenti di Geologia in Sanità Pubblica. 12 h
5. February - April 2024. Fondazione "I Lincei per la Scuola". Teaching activities for "Corso di Scienze a.s. 2023/2024",
6. May 2024. PhD course, Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY": Water in Earth System. 2 CFU.
7. April 27, May 15, May 31, 2023. Laboratory activities. Competenze trasversali A.A. 2023. Disparità di genere e discipline stem.
8. April 13, 2023. L'acqua negli ambienti carsici. Competenze trasversali A.A. 2023. L'acqua sul pianeta Terra: bene prezioso, risorsa naturale, pericolo. Organized by Aldo Moro University, Departments of Earth and Environmental Sciences and Interdisciplinary Department of Medicine, Section of Hygiene.

9. May 24, 2023. Il fenomeno di intrusione marina. Competenze trasversali A.A. 2023. L'acqua sul pianeta Terra: bene prezioso, risorsa naturale, pericolo. Organized by Aldo Moro University, Departments of Earth and Environmental Sciences and Interdisciplinary Department of Medicine, Section of Hygiene.
10. May 7, 2020. Apulian Karst Groundwater. Hydrogeological characterization, recharge and flow modeling. Seminar for the WKU graduate course in Karst Geoscience. Western Kentucky University, Bowling Green, KY, USA.

Courses

1. December 2025 - February 2026. Course for "Scuola di Specializzazione in Igiene e Medicina Preventiva": Fondamenti di Geologia in Sanità Pubblica. 12 h
2. March - May 2025. PhD course, Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY": Water in Earth System. 3 CFU
3. January - February 2025. Course for "Scuola di Specializzazione in Igiene e Medicina Preventiva": Fondamenti di Geologia in Sanità Pubblica. 12 h
4. May 2024. PhD course, Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY": Water in Earth System. 2 CFU.

Master and bachelor thesis

1. Analisi geomorfologica e comportamento idraulico di doline nel Canale di Pirro (Murge di sud-est). Student: Annamaria Palasciano (2023).
2. November 16, 2022. Activities in hydrogeological laboratory for Bachelor course in Hydrogeology (Corso di Laurea in Scienze Geologiche – L34), University of Bari, Department of Earth and Environmental Sciences.
3. November 03, 2022. Studi di idrogeologia carsica negli acquiferi pugliesi. Seminar for Bachelor course in Hydrogeology (Corso di Laurea in Scienze Geologiche – L34), University of Bari, Department of Earth and Environmental Sciences.
4. July, 2022: Relazioni tra eventi di pioggia e risposta dell'acquifero in un contesto carsico. Student: Alessandro Fiscarelli.
5. July, 2019: Circolazione idrica in ammassi rocciosi carbonatici fratturati. Student: Francesco Cuccarese.

PhD supervision

1. Co-tutor for PhD student: Umberto Samuele D'Ettore. Dottorato di Ricerca in Geoscienze, cycle XXXVII (2021/2024). Title: Desertification in the Murge area (Apulia, Southern Italy) and quali-quantitative analysis of water resources.
2. Co-tutor for PhD student: Mostafa F. Mostafa. Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY", Cycle XXXIX (2023/2026). Title: Hydrogeology of coastal areas affected by saline intrusion, and related effects to the environment.
3. Co-tutor for PhD student: Michele Onorato. Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY", Cycle XXXIX (2023/2026). Title: Hydrogeological and biological research in the sinkholes of Salento (Apulia, southern Italy) aimed at evaluating the quality of water resources.
4. Co-tutor for PhD student: Rocco Fracchiolla. Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY", Cycle XXXIX (2023/2026). Urban-scale estimation of susceptibility to sinkhole formation over anthropogenic cavities in soft rocks using analytical approaches, machine learning, and remote sensing analysis
5. Co-tutor for PhD student: Damiano Zaza. Dottorato di Interesse Nazionale "EARTH PROCESSES AND MANAGEMENT OF RESOURCES AND RISKS FOR A RESILIENT SOCIETY AND TERRITORY", Cycle XL (2024/2027). Title: Ecological characterization of marine coastal caves from southern Apulia: benthic foraminifera as environmental indicators.

Research

Isabella Serena Liso H-index Scopus: 12

Total citations Scopus: 484

Isabella Serena Liso H-index Google Scholar: 14

Isabella Serena Liso i10-index Google Scholar: 17

Total citations Google Scholar: 674

ORCID: <https://orcid.org/0000-0002-9905-7503>

SCOPUS: <https://www.scopus.com/authid/detail.uri?authorId=57190030985>

1. PAPERS IN JOURNALS

- INTERNATIONAL

1. Boulamail S., Fumarola L.M., Onorato M., Piraino S., Ventruti S., Liso I.S., Parise M. & Cozzoli F., 2025, Interactive influence of intrinsic and extrinsic factors on stygofauna metabolic rate. *Scientific Reports*, 15, 39819, <https://doi.org/10.1038/s41598-025-23493-y>.
2. Ruberti D., Buffardi C., Fabozzi M.A., Liso S.L., Lollino P., Vennari C., Vigliotti M., Capasso G., Corbelli V. & Parise M., 2025, Artificial cavities and sinkholes in the hydrographic district of the Southern Apennines of Italy: findings, mapping and risk assessment. *Rendiconti Online Società Geologica Italiana*, vol. 67, p. 9-14, <https://doi.org/10.3301/ROL.2025.20>.
3. Campanale F., Liso I.S., Parise M. & Spalluto L., 2025, Anatomy of a cave/sinkhole karst system near the Adriatic coast. *Rendiconti Online Società Geologica Italiana*, vol. 67, p. 21-26, <https://doi.org/10.3301/ROL.2025.27>.
4. Parise M., Andriani G.F., De Santis V., Diprizio G., Lollino P., Longo L., Paciolla R. & Liso I.S., 2025, Analysis of the factors involved in sinkhole development and evolution in the coastal environment of Apulia. *Rendiconti Online Società Geologica Italiana*, vol. 67, p. 27-34, <https://doi.org/10.3301/ROL.2025.29>.
5. Fronzi D., Cambi C., Fiorucci F.M., Liso I.S., Manucci A., Mazzocca M., Mirabella F., Parise M., Tazioli A. & Valigi D., 2025, Updating of traditional groundwater budget and recharge assessment by using the APLIS method for the karst Scirca spring (Central Italy). In: Fiorillo F., Parise M., Petitta M., Leone G., Liso I.S. & Lorenzi V. (Editors), 2025, Eurokarst 2024. *Advances in the Hydrogeology of Karst and Carbonate Reservoirs*. *Advances in Karst Science*, Springer Cham, ISBN 978-3-031-84337-2, p. 27-32.
6. Allocca V., Berti M., Calcaterra D., Di Martire D., Fanti R., Floris M., Forte G., Lapietra I., Liso I.S., Lollino P., Santo A., Tufano R., Bozzano F., Martino S. & Parise M., 2025, The RETURN project's approach to sinkholes, the most typical geological hazard in karst terrains. In: Fiorillo F., Parise M., Petitta M., Leone G., Liso I.S. & Lorenzi V. (Editors), 2025, Eurokarst 2024. *Advances in the Hydrogeology of Karst and Carbonate Reservoirs*. *Advances in Karst Science*, Springer Cham, ISBN 978-3-031-84337-2, p. 95-100.
7. Fracchiolla R., Bonamassa G., Liso I.S., Lollino P., Lorusso G. & Parise M., 2025, Building a database for the analysis of sinkholes related to artificial cavities: the case study of Altamura (Apulia, southern Italy). *Rendiconti Online Società Geologica Italiana*, vol. 66, p. 50-56, <https://doi.org/10.3301/ROL.2025.15>.
8. Rizzo A., Mattei G., Dumon Steenssens L., Anzidei M., Aucelli P.P.C., Alberti A., Antonioli F., Bezzi A., Bonaldo D., Fontolan G., Furlani S., Liso I.S., Parise M., Sansò P., Scicchitano G., Tripanera D., Vecchio A. & Mastronuzzi G., 2025, Methodological advances in sea level rise vulnerability assessment: implications for sustainable coastal management in a climate change scenario. *Ocean and Coastal Management*, 268, 107751.
9. Petio P., Liso I.S., Pastore N., Pagliarulo P., Refice A., Parise M., Mastronuzzi G., Caldara M.A. & Capolongo D., 2024, Application of Hydrological and Hydrogeological Models for Evaluating Groundwater Budget in a Shallow Aquifer in a Semi-Arid Region Under Three Pumping Rate Scenarios (Tavoliere di Puglia, Italy). *Water*, 16, 3253. <https://doi.org/10.3390/w16223253>.
10. D'Ettoire U.S., Liso I.S., Parisi V. & Parise M., 2024, Desertification Assessment Using the Modified Mediterranean Desertification and Land Use Model in a Karst Plateau. *Geosciences*, 14, 320. <https://doi.org/10.3390/geosciences14120320>.
11. Ostad H., Mohammadi Z., Raeisi E., Azimi M.H., Liso I.S. & Parise M., 2024, An integrated approach for characterization of a fractured-rock carbonate aquifer in the Zagros Region of Iran. *Journal of Hydrology*, vol. 640, 136181, doi: <https://doi.org/10.1016/j.jhydrol.2024.136181>
12. D'Ettoire U.S., Liso I.S. & Parise M., 2024, Desertification in karst areas: a review. *Earth Science Reviews*, vol. 253, 104786, <https://doi.org/10.1016/j.earscirev.2024.104786> .
13. Eftimi R., Liso I.S. & Parise M., 2024, Hydrogeological Characteristics of the Makaresh Carbonate Karst Massif (Central Albania). *Hydrology*, 11, 29. <https://doi.org/10.3390/hydrology11020029> .
14. Galmarini E., Vaccarelli I., Fiasca B., Di Cicco M., Parise M., Liso I.S., Piccini L., Galassi D.M.P. & Francesco Cerasoli F., 2023, Regional climate contributes more than geographic distance to beta diversity of copepods (Crustacea Copepoda) between caves of Italy. *Scientific Reports*, 13, 21243. <https://doi.org/10.1038/s41598-023-48440-7>.
15. Romano G., Capozzoli L., Abate N., De Girolamo M., Liso I.S., Patella D. & Parise M., 2023, An integrated geophysical and Unmanned Aerial Systems surveys for multi-sensory, multi-scale and multi-resolution cave detection: the Gravaglione site (Canale di Pirro Polje, Apulia). *Remote Sensing*, 15, 3820. <https://doi.org/10.3390/rs15153820>.
16. Leins T., Liso I.S., Parise M. & Hartmann A., 2023, Evaluation of the predictions skills and uncertainty of a karst model using short calibration data sets at an Apulian cave (Italy). *Environmental Earth Sciences*, vol. 82, 351, <https://doi.org/10.1007/s12665-023-10984-2>
17. D'Ettoire U.S., Liso I.S., Lollino P. & Parise M., 2023, Instability at Roca Vecchia: safeguarding a site of archaeological and naturalistic values along the Adriatic coast of Apulia, southern Italy. *Congresso SIMP-SGI-AIV-SOGEI "The Geoscience paradigm: resources, risks and future perspectives"*, Potenza, 19-21 september 2023, *Abstract Book*, p. 370, <https://doi.org/10.3301/ABSGI.2023.02> .

18. Tropeano M., Caldara M.A., De Santis V., Festa V., Parise M., Sabato L., Spalluto L., Francescangeli R., Iurilli V., Mastronuzzi G.A., Petruzzelli M., Bellini F., Cicala M., Lippolis E., Petti F.M., Antonelli M., Cardia S., Conti J., La Perna R., Marino M., Marsico A., Sacco E., Fiore A., Simone O., Valletta S., D’Ettorre U.S., De Giorgio V., Liso I.S. and Stigliano E. (2023). Geological Uniqueness and Potential Geotouristic Appeal of Murge and Premurge, the First Territory in Puglia (Southern Italy) Aspiring to Become a UNESCO Global Geopark. *Geosciences*, 13, 131. <https://doi.org/10.3390/geosciences13050131>
19. Eftimi R., Liso I.S. and Parise M. (2023). Classification and hydro-geochemistry of karst springs along the southern coast of Albania. *Carbonates and Evaporites*, 38, 25. <https://doi.org/10.1007/s13146-023-00856-y>
20. Pisano L., Zumpano V., Pepe M., Liso IS, Parise M. (2022). Assessing Karst Landscape Degradation: A Case Study in Southern Italy. *Land*, 11, 1842. <https://doi.org/10.3390/land11101842>
21. Scardino G., Anzidei M., Petio P., Serpelloni E., De Santis V., Rizzo A., Liso I.S., Zingaro M., Capolongo D., Vecchio A., Refice A. and Scicchitano G. (2022). The Impact of Future Sea-Level Rise on Low-Lying Subsiding Coasts: A Case Study of Tavoliere Delle Puglie (Southern Italy). *Remote Sensing*, 14, 4936. <https://doi.org/10.3390/rs14194936>
22. Eftimi R., Parise M. and Liso I.S. (2022). Karst Brackish Springs of Albania. *Hydrology*, vol. 9, 127, pp. 19. <https://doi.org/10.3390/hydrology9070127>.
23. D’Angeli I.M., De Waele J., Fiorucci A., Vigna B., Bernasconi S.M., Florea L.J., Liso I.S. and Parise M. (2021). Hydrogeology and geochemistry of the sulfur karst springs at Santa Cesarea Terme (Apulia, Southern Italy). *Hydrogeology Journal*, vol. 29, p. 481-498. <https://doi.org/10.1007/s10040-020-02275-y>.
24. Diprizio G., Andriani G.F., Loiotine L., Liso I.S. and Parise M. (2021). An integrated approach to elaborate 3-d geological and geotechnical models: a case study from the Daunia sub-Apennine (Apulia, Southern Italy). *Italian Journal of Engineering Geology and Environment*, vol. 1, p. 67-78. 10.4408/IJEGE.2021-01.S-06.
25. Margiotta S., Marini G., Fay S., D’Onghia F.M., Liso I.S., Parise M., and Pinna M. (2021). Hydro-Stratigraphic Conditions and Human Activity Leading to Development of a Sinkhole Cluster in a Mediterranean Water Ecosystem. *Hydrology* 2021, 8, 111. <https://doi.org/10.3390/hydrology8030111>.
26. Liso I.S., Chieco M., Fiore A., Pisano L. and Parise M. (2020). Underground geosites and caving speleotourism: some considerations, from a case study in Southern Italy. *Geoheritage*, vol. 12, 13. <https://doi.org/10.1007/s12371-020-00424-z>.
27. Olarinoye T., Gleeson T., Marx V., Seeger S., Adinehvand R., Allocca V., Andreo B., Apaéstegui J., Apolit C., Arfib B., Auler A., Barberá J.A., Bechtel T., Binet S., Bittner D., Blatnik M., Bolger T., Charlier J.B., Chen Z., Chiogna G., Coxon G., De Vita P., Doummar J., Epting J., Fournier M., Goldscheider N., Guanghui J., Gunn J., Guo F., Guyot J.L., Sanchez L.H., Howden N., Huggenberger P., Hunt B., Jeannin P.Y., Jones G., Jourde H., Karmann I., Koit O., Ladouche B., Liso I.S., Liu Z., Massei N., Mazzilli N., Mudarra M., Parise M., Pu J., Ravbar N., Santo A., Sivellev V., Skoglund R.Ø., Stevanović Z., Wood C., Worthington S. and Hartmann A. (2020). World karst spring hydrograph (WoKaS) database for research and management of the world’s fastest - flowing groundwater. *Scientific Data*, vol. 7, 59. <https://doi.org/10.1038/s41597-019-0346-5>.
28. Liso I.S. and Parise M. (2020). Apulian Karst Springs: A Review. *Journal of Environmental Science and Engineering Technology*, vol. 8, p. 63-83. DOI: <https://doi.org/10.12974/2311-8741.2020.08.7>.
29. Pisano L., Zumpano V., Liso I.S. and Parise M. (2020). Geomorphological characterization of the “Canale di Pirro” polje, Apulia (Southern Italy). *Journal of Maps*, vol. 16 (2), p. 479-487. DOI: 10.1080/17445647.2020.1778550.
30. Liso I.S., Loiotine L., Andriani G.F. and Parise M. (2019). Apulian caves as natural hydrogeological laboratories. *Italian Journal of Engineering Geology and Environment*, sp. Issue 1, p. 67-72. DOI: 10.4408/IJEGE.2019-01.S-11.
31. Loiotine L., Liso I.S., Parise M. and G. F. Andriani (2019). Optimization of geo-structural surveys in rock mass stability analyses using remote sensing techniques. *Italian Journal of Engineering Geology and Environment*, sp. Issue 1, p. 73-78. DOI: 10.4408/IJEGE.2019-01.S-12.
32. Masciopinto C., Vurro M., Palmisano V.N. and Liso I.S. (2017). A suitable tool for sustainable groundwater management. *Water Resources Management*, vol. 31, p. 4133–4147. DOI 10.1007/s11269-017-1736-0.
33. Masciopinto C., Liso I.S., Caputo M.C. and De Carlo L. (2017). An integrated approach based on numerical modelling and geophysical survey to map groundwater salinity in fractured coastal aquifers. *Water*, vol. 9, 875. doi: 10.3390/w9110875.
34. Masciopinto C. and Liso I.S. (2016). Assessment of the impact of sea-level rise due to climate change on coastal groundwater discharge. *Science of the Total Environment*, vol. 569–570, p. 672–680. <http://dx.doi.org/10.1016/j.scitotenv.2016.06.183>.

- NATIONAL

1. Moretti M., Festa V., Liso S.N., Mastronuzzi G., Gianolio G., Liso I.S., Maiorano P., Parise M., Reina A., Scardino G., Trotta S., Cicala M., D’Abbicco V., De Giosa F., De Luca A., Di Leo M., Fracchiolla T., Gasperini L., Rizzo A. & Valenzano E., 2025, *Note illustrative della Carta Geologica d’Italia alla scala 1:50.000 Foglio 493 Taranto*. Progetto CARG, ISPRA, 196 pp.

2. Liso I.S. and Parise M. (2022). *Alcuni aspetti idrogeologici della circolazione idrica sotterranea dell'Inghiotto di Masseria Rotolo*. Geologi e Territorio n° 2-2022. p. 7-11.
3. Lollino P., Andriani G.F., Diprizio G., Fazio N.L., Liso I.S. & Parise M., 2022, Studio numerico parametrico dell'influenza di fattori ambientali, geostrutturali e geomeccanici sulla stabilità di fessure in rocce tenere [riassunto]. Geologia dell'Ambiente, suppl. n. 4/2022, p. 64-65.
4. Mastronuzzi G., Sansò P., Scicchitano G., Liso I.S., Bertelmann S., Marassich A. & Parise M., 2022, Mitigazione del rischio da dissesti in un'area a forte valenza turistica ed archeologica: Roca Vecchia e Grotte della Poesia (Melendugno, Puglia) [riassunto]. Geologia dell'Ambiente, suppl. n. 4/2022, p. 75-77.
5. D'ettore U.S., Parise M. & Liso I.S., 2022, Erosione del suolo e degrado dell'ambiente naturale in contesti carsici [riassunto]. Geologia dell'Ambiente, suppl. n. 4/2022, p. 208-209.
6. Liso I.S. & Parise M., 2022, Risorsa idrica sotterranea e cambiamento climatico: il caso della Puglia (Italia meridionale) [riassunto]. Geologia dell'Ambiente, suppl. n. 4/2022, p. 236-238
7. Pisano L., Parise M., Liso I.S. Lagna F. and Zumpano V. (2022). *Cartografia carsica su aree campione del territorio pugliese*. Geologi e Territorio n° 2-2022. p. 13-18.
8. Gentile P., Iaia C., Liso I.S. and Parise M. (2020). *Eventi alluvionali nell'ambiente carsico pugliese*. Geologia dell'Ambiente, suppl. n. 1/2020, ISSN 1591-5352, p. 56-63.
9. Liso I.S. and Masciopinto C. (2016). *Impatto dell'innalzamento del livello del mare causato dai cambiamenti climatici sulle falde costiere*. Geologi e Territorio, n° 2/2016, p. 3-13.

2. BOOK CHAPTER

- INTERNATIONAL

1. Fiorillo F., Parise M., Petitta M., Leone G., Liso I.S. & Lorenzi V., 2025, *Preface*. In: Fiorillo F., Parise M., Petitta M., Leone G., Liso I.S. & Lorenzi V. (Editors), 2025, *Eurokarst 2024. Advances in the Hydrogeology of Karst and Carbonate Reservoirs*. Advances in Karst Science, Springer Cham, ISBN 978-3-031-84337-2, p. vii-viii.
2. Fiorillo F., Pagnozzi M., Adesso R., Cafaro S., D'Angeli I.M., Esposito L., Leone G., Liso I.S., Parise M. (2023). *Uncertainties in understanding groundwater flow and spring functioning in karst*. In: Currell M.J. & Katz B.G. (Eds.) *Threats to Springs in a Changing World: Science and Policies for Protection*. Geophysical Monograph 275, First Edition. American Geophysical Union. Published 2023 by John Wiley & Sons, Inc. DOI:10.1002/9781119818625.ch09. pp.131.143
3. Isabella Serena Liso, Claudia Cherubini, and Mario Parise (2023). *Hydrogeological characterization and modeling at two test sites of the Apulian karst (Southern Italy)*. In: Andreo B., Barberà J.A., Duran-Valsero J.J., Jil-Marquez J.M. and Mudarra M. (Eds.) *Eurokarst 2022, Malaga. Advances in the hydrogeology of karst and carbonate reservoirs*. Advances in Karst Science, Springer. https://doi.org/10.1007/978-3-031-16879-6_15
4. Mario Parise and Isabella Serena Liso (2023). *The link between man and water in karst, through examples from Apulia (S Italy)*. In: Andreo B., Barberà J.A., Duran-Valsero J.J., Jil-Marquez J.M. and Mudarra M. (Eds.) *Eurokarst 2022, Malaga. Advances in Karst Science*, Springer, ISBN 978-3-031-16878-9, https://doi.org/10.1007/978-3-031-16879-6_34, p. 235-240.
5. Liso I.S., Margiotta S. and Parise M. (2022). *Morphological and hydrogeological features of sinkholes in coastal settings*. In: Attila Ciner, Md Firoz Khan, Amjad Kallel, Jesus Rodrigo-Comino, Mario Parise, Rahim Barzegar, Zeynal Abiddin Ergüler, Imran Ali, Nabil Khélifi (Eds.), "Recent Research on Environmental Earth Sciences, Geomorphology, Karst and Paleoclimatology", vol. 4, Advances in Science, Technology & Innovation (ASTI), Springer.
6. Parise M., Benedetto L., Chieco M., Fiore A., Lacarbonara M., Liso I.S., Masciopinto C., Pisano L., Riccio A. and Vurro M. (2020). *First outcomes of a project dedicated to monitoring groundwater resources in Apulia, southern Italy*. In: Bertrand C., Denimal S., Steinmann M. and Renard P. (Eds.), "Eurokarst 2018, Besançon, Advances in the Hydrogeology of Karst and Carbonate Reservoirs", Springer, Advances in Karst Science, ISBN 978-3-030-14014-4 p. 243-249.

3. MONOGRAPHY

1. PhD thesis: I.S. Liso (2022). *Hydrogeological characterization and groundwater modeling in the Apulian karst (southern Italy)*. PhD in Geosciences, XXXIV cycle, University Aldo Moro, Bari, Italy.

4. CONFERENCE PROCEEDINGS

- INTERNATIONAL

1. Liso I.S. & Parise M., 2025, *Predisposing factors and evolution stages of sinkholes in coastal areas*. In: Calux A. (Editor), *Proceedings 19th International Congress of Speleology, Belo Horizonte (Brazil), 20-27 July 2025*, Sociedade Brasileira de Espeleologia, vol. 2, p. 75-79.
2. Liso I.S., Bertelmann S., Marassich A. & Parise M., 2025, *Grotte della Poesia karst system*. In: Calux A. (Editor), *Proceedings 19th International Congress of Speleology, Belo Horizonte (Brazil), 20-27 July 2025*, Sociedade Brasileira de Espeleologia, vol. 3, p. 47-51.
3. Liso I.S., Margiotta S. & Parise M., 2023, *Morphological and hydrogeological features of sinkholes in coastal settings*. In: Çiner A., Khan M.F., Kallel A., Rodrigo-Comino J., Parise M., Barzegar R., Erguler Z.A., Khelifi N. & Ali I. (Eds.), *Recent Research on*

- Environmental Earth Sciences, Geomorphology, Soil Science, Paleoclimate, and Karst. Proceedings of 1st MedGU, Istanbul 2021 (vol. 4), Advances in Science, Technology & Innovation, Springer, p. 243-246, https://doi.org/10.1007/978-3-031-42917-0_54.
4. Liso I.S., Vennari C., Fabozzi M.A., Ruberti D., Vigliotti M., Capasso G., Corbelli V. & Parise M., 2023, A chronology of sinkholes related to artificial cavities in the hydrographic district of the Southern Apennines of Italy. In: Saj S., Galeazzi C., Betti M., Faccini F. & Madonia P. (Eds.) Hypogea 2023. Proceedings of IV International Congress of Speleology in Artificial Cavities, September 29 – October 1, 2023, Genova (Italy), ISBN 978-88-32241-32-7, p. 57-64.
 5. Fabozzi M.A., Liso I.S., Parise M., Vennari C., Lollino P., Vigliotti M., Capasso G., Corbelli V. & Ruberti D., 2023, The hidden world of artificial cavities in the hydrographic district of the Southern Apennines of Italy: findings, architectural variability and risk assessment. In: Saj S., Galeazzi C., Betti M., Faccini F. & Madonia P. (Eds.) Hypogea 2023. Proceedings of IV International Congress of Speleology in Artificial Cavities, September 29 – October 1, 2023, Genova (Italy), ISBN 978-88-32241-32-7, p. 65-74.
 6. Liso I.S. and Parise M. (2023). Sinkhole development at the freshwater-saltwater interface in Apulia (Southern Italy). Proceedings 17th Multidisciplinary Conference on Sinkhole and Engineering and Environmental Impacts on Karst. March 27, 2023. Tampa, Florida (USA).
 7. Liso I.S., Cherubini C. and Parise M. (2022). Hydrogeological characterization and modeling at two test sites of the Apulian karst (Southern Italy). Proceedings Eurokarst 2022, 22-25 June 2022, Malaga (Spain).
 8. Parise M. and Liso I.S. (2022). Man and water in karst: when springs tell a very long story. Proceedings Eurokarst 2022, 22-25 June 2022, Malaga (Spain).
 9. Fiasca B., Vaccarelli I., Di Cicco M., Tabilio Di Camillo A., Cerasoli F., Di Lorenzo T., Liso I.S., Parise M. and Galassi D.M.P. (2022). Coping with the “Racovitza impediment” in caves: unexpected discoveries open new horizons to the knowledge of groundwater copepods in southern Italy. e-ICOC-2022, International Conference on Copepoda, RS3-03. 25-30 July, 2022.

- NATIONAL

1. Liso I.S. & Parise M., 2025, *Fattori predisponenti, preparatori e innescanti I fenomeni di instabilità nel territorio delle gravine Apulo-Lucane*. In: Crescenzi C. & Galeazzi C. (Editors), *Atti del Convegno Internazionale “Paesaggi culturali degli insediamenti in roccia. Ricerca – Valorizzazione - Promozione”*, Palagianello, 26-29 settembre 2024, RA Restauro Archeologico, special issue 2025, ISSN 1724-9686, Università degli Studi di Firenze, p. 36-44.
2. Parise M. & Liso I.S., 2024, Eventi di dissesto geo-idrogeologico nel peculiare ambiente carsico delle gravine: il contesto di Ginosa. In: Fioriello C.S. (Editor), *Archeologia dei paesaggi a Ginosa: tes(t)i a confronto*. Bibliotheca Archaeologica, vol. 66, Edipuglia, Bari, ISBN 979-12-5995-110-6, p. 21-28.
3. Lagna F., Liso I.S. & Parise M., 2024, Il contributo della speleologia alla ricerca scientifica. *Atti del Convegno “I paesaggi e beni geologici, patrimonio culturale e patrimonio immateriale”*, Salve (LE), 14-16 giugno 2024, *Geologia dell’Ambiente*, suppl. 2/2024, p. 53-55.
4. D’Ettore U.S., Parise M. & Liso I.S., 2023, Erosione del suolo e degrado dell’ambiente naturale in contesti carsici. In: Bentivenga M. & Di Loreto E. (Eds.), *Atti del Convegno “La Geologia Ambientale al servizio del Paese”*, Roma, 10-11 ottobre 2022, *Geologia dell’Ambiente*, suppl. n. 4/2023, p. 43-48.
5. Liso I.S. & Parise M., 2023, Gli acquiferi carsici in contesti di cambiamento climatico: il caso della Regione Puglia (Italia meridionale). In: Bentivenga M. & Di Loreto E. (Eds.), *Atti del Convegno “La Geologia Ambientale al servizio del Paese”*, Roma, 10-11 ottobre 2022, *Geologia dell’Ambiente*, suppl. n. 4/2023, p. 102-106.
6. Lollino P., Andriani G.F., Diprizio G., Liso I.S., Morelli P. & Parise M., 2023, Studio numerico parametrico dell’influenza di fattori ambientali, geostrutturali e geomeccanici sulla stabilità di falesie costiere in rocce tenere. In: Masciocco L. (Ed.), *Atti del Convegno “La Geologia Ambientale al servizio del Paese”*, Roma, 10-11 ottobre 2022, *Geologia dell’Ambiente*, suppl. n. 3/2023, p. 79-83.
7. Mastronuzzi G., Sansò P., Scicchitano G., Liso I.S., Bertelmann S., Marassich A. & Parise M., 2023, Mitigazione del rischio da dissesti in un’area a forte valenza turistica ed archeologica: Roca Vecchia e Grotte della Poesia (Melendugno, Puglia). In: Masciocco L. (Ed.), *Atti del Convegno “La Geologia Ambientale al servizio del Paese”*, Roma, 10-11 ottobre 2022, *Geologia dell’Ambiente*, suppl. n. 3/2023, p. 84-89.
8. Liso I.S., Lollino P. & Parise M., 2023, Meccanismi di formazione di sinkholes nel territorio pugliese e modellazione numerica dei processi. In: Cencetti C. & Di Matteo L. (Eds.) *La Dinamica fluviale. La conoscenza del Fiume per la pianificazione e la salvaguardia del territorio*. Atti della Giornata di Studio in memoria del Prof. Paolo Tacconi. Culture Territori Linguaggi, Università degli Studi di Perugia, ISBN 978-8-894-46978-3, vol. 24, p. 97-114.
9. D’Ettore U.S., Parise M. and Liso I.S. (2022). Erosione del suolo e degrado dell’ambiente naturale in contesti carsici. *La geologia Ambientale al servizio del paese. Celebrazione dei 30 anni di fondazione di Geologia Ambientale (SIGEA – APS)*. 10-11 July, 2022. *Geologia dell’Ambiente*, Supplemento al n. 4-2022, pp. 208-209. ISSN 1591-5325.
10. Liso I.S. and Parise M. (2022). *Risorsa idrica sotterranea e cambiamento climatico: il caso della Puglia (Italia meridionale)*. *La geologia Ambientale al servizio del paese. Celebrazione dei 30 anni di fondazione di Geologia Ambientale (SIGEA – APS)*. 10-11 July, 2022. *Geologia dell’Ambiente*, Supplemento al n. 4-2022, pp. 236-238. ISSN 1591-5325.
11. Lollino P., Andriani G.F., Diprizio G., Fazio N.L., Liso I.S. and Parise M. (2022). Studio numerico parametrico dell’influenza di fattori ambientali, geo- strutturali e geomeccanici sulla stabilità di falesie in rocce tenere. *La geologia Ambientale al servizio del*

paese. Celebrazione dei 30 anni di fondazione di Geologia Ambientale (SIGEA – APS). 10-11 July, 2022. Geologia dell’Ambiente, Supplemento al n. 4-2022, pp. 64-65. ISSN 1591-5325.

12. Mastronuzzi G., Sansò P., Scicchitano G., Liso I.S., Bertelman S., Marassich A. and Parise M. (2022). Mitigazione del rischio da dissesti in un’area a forte valenza turistica ed archeologica: Roca Vecchia e Grotte della Poesia (Melendugno, Puglia). La geologia Ambientale al servizio del paese. Celebrazione dei 30 anni di fondazione di Geologia Ambientale (SIGEA – APS). 10-11 July, 2022. Geologia dell’Ambiente, Supplemento al n. 4-2022, pp. 75-77. ISSN 1591-5325.

5. PROJECT REPORTS

1. Parise M., Liso I.S., Mastronuzzi G., Sansò P. and Scicchitano G. (2022). Partenariato Comune di Melendugno – Dipartimento di Scienze della Terra e Geoambientali. Relazione n. 1.
2. Parise M., Liso I.S., Romano G., Spalluto L. (2021). Relazione finale “Attività prioritarie per l’attuazione dell’art. 45 “Interventi per esplorazione dei fenomeni carsici”, comma 1 della L.R. n. 45 del 30/12/2013.
3. Parise M., Andriani G.F., Diprizio G. and Liso I.S. (2019). Valutazione preliminare della suscettibilità a crolli per la presenza di cavità artificiali, e caratterizzazione geologico-tecnica dell’ammasso roccioso calcarenitico del territorio di Ginosa. Relazione finale della Convenzione tra il Comune di Ginosa in Puglia e il Dipartimento di Scienze della Terra e Geoambientali dell’Università Aldo Moro di Bari
4. Parise M., Pisano L., Liso I.S., Dragone V., Limoni P., Spalluto L., Zumpano V., Barnaba F. and Giornetti L. (2018). Relazione finale “Attività prioritarie per l’attuazione dell’art. 45 “Interventi per esplorazione dei fenomeni carsici”, comma 1 della L.R. n. 45 del 30/12/2013.
5. Masciopinto C. and Liso I.S. (2016). Present and future water safety and risk for drinking supply at Ostuni test area (Apulia, Italy). Report WP4.3 for DrinkAdria Project.
6. Masciopinto C., Levantesi C., Liso I.S., Visino F., Tandoi V. and Di Pippo F. (2015). Design and preparation of MAR in Apulia: the experimental site of Ostuni (Brindisi). Report WP6 for DRINKADRIA Project.
7. Masciopinto C., Liso I.S., Levantesi C., Visino F., Tandoi V. and Luprano M.L. (2014). MAR in Puglia: the experimental site of Ostuni (Br). Final report WP6, FB3: CNR-IRSA Bari. DrinkAdria Project.

6. INVITED LECTURES

- INTERNATIONAL

1. October 23-24, 2025: Parise M., Liso I.S. & Lollino P. - Natural hazards in coastal carbonate environments: geological, hydrogeological and geotechnical aspects. NatHaz25: 4th International Workshop on Natural Hazards “Geotechnical Risks”, Horta - Faial Island - Azores, Portugal.
2. May 7, 2020: Liso I.S. - Apulian Karst Groundwater. Hydrogeological characterization, recharge and flow modeling. Invited expert Speaker for the WKU graduate course in Karst Geoscience. Western Kentucky University, Bowling Green, KY, USA. ONLINE

- NATIONAL

1. Liso I.S., 2025. Idrogeologia e carsismo in Puglia. Spelaion 2025 “Caverna Solertes Inquisitores”, Congresso regionale di speleologia, Martina Franca 5-8/12/2025.
2. Parise M., Liso I.S., Lollino P. & Margiotta S., 2023. Caratteri stratigrafici e geologici ai fini della individuazione di pericoli in ambienti estrattivi ipogei: un passo necessario per qualunque azione di fruizione pubblica. Festival dell’Architettura, Stone Landscape Festival, Bari, 18 aprile 2023.
3. October 26, 2022: Studi di idrogeologia carsica negli acquiferi pugliesi. Invited speaker for Hydrogeology course by Prof. Mario Parise (Laurea in Scienze Geologiche L34) at University Aldo Moro, Bari. Department of Earth and Environmental Sciences.
4. September 23, 2022: Sinkholes in zone costiere: il caso della Puglia (Italia meridionale). Invited speaker for the webinar “I pomeriggi AIGA, seminari di Geologia Applicata, Gestione sostenibile delle aree costiere. AIGAA and National Council of Geologists. ONLINE
5. April 07, 2022: L’importanza della risorsa idrica sotterranea nel carsismo pugliese. Invited speaker for seminar “Ricerche e studi in territori carsici”. Università degli Studi di Bari, Aldo Moro, Department of Earth and Environmental Sciences, Bari (BA), Italy.
6. May 20, 2021: Indagini idrogeologiche nelle grotte attive in Puglia. Invited speaker for seminar “Cave science pills. Due pillole a settimana per osservare, raccontare e documentare gli ambienti carsici in modo consapevole”. International Union of Speleologists (UIS), Società Speleologica Italiana (SSI), Speleopolis, Associazione Grotte Turistiche Italiane (SGTI), International Show Save Association, Club Alpino Italiano (CAI). ONLINE
7. May 17, 2019: *Le grotte come laboratori idrogeologici naturali di ricerca sugli acquiferi carsici pugliesi*. Invited speaker for national meeting “Focus della Ricerca in Geologia Applicata”. Università degli Studi di Bari, Aldo Moro, Department of Earth and Environmental Sciences, Bari (BA), Italy.

8. November 22, **2018**: *Finestre aperte sulle acque sotterranee: l'inghiottitoio di Masseria Rotolo*. Invited speaker for dissemination event within the framework of “Attività prioritarie per l’attuazione dell’art. 45 “Interventi per esplorazione dei fenomeni carsici”, comma 1 della L.R. n. 45 del 30/12/2013”. Biblioteca Civica Prospero Rendella, Monopoli (BA), Italy.
9. October 25, **2016**: Impact of climate change and seawater intrusion in fractured coastal aquifers: the case of Ostuni-Villanova (Southern Italy). Invited speaker for seminar: “I Giornata AIGA di Approfondimento Lo studio e la tutela delle acque sotterranee”. AIGAA, CNR-IRPI, IAH and Ordine dei Geologi della Puglia. Università degli Studi di Bari, Aldo Moro, Department of Earth and Environmental Sciences, Bari (BA), Italy.
10. March 4, **2015**: Scenari di intrusione marina negli acquiferi e possibili azioni di contrasto. Invited speaker for Congress: Servizi a Rete Tour: il convegno delle Utility. Servizi a Rete, il network di comunicazione delle utility italiane. Milano Expo (MI), Italy.

Bari, 19/01/2026
