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Dipartimento di Fisica e Geologia
SSD GEOS-03/B - Geologia Applicata (ex GEO/05)
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EDUCATION AND TITLES

- o 1999: Master's degree in Geology at the University of Perugia (110/110 with honors). Contribution to the knowledge of springs of the Umbria-Marche Apennines: the Alzabove spring (Central Italy). Tutor: Prof. W. Dragoni.
- o 2003: PhD at the University of Perugia. Thesis title: Stream depletion by well pumping near rivers. Tutor: Prof. W. Dragoni.
- o 2004-2007: Post-Doc research at the Department of Earth Science of Perugia University. Impact of anthropic pressure and climate change on Trasimeno and Bolsena lakes: modeling processes and possible management strategies. Tutor: Prof. W. Dragoni.
- o November 2007 - December 2018: Permanent Researcher at the University of Perugia (SSD GEO/05).
- o Since December 2018: Associate Professor at the University of Perugia (GEO/05)
- o Since November 2020: Qualified for the position of Full Professor (ASN 2018 – 04/A3, GEO/05).

INSTITUTIONAL ACTIVITIES

- o November 2025-present: Vice Director of the Department of Physics and Geology (Perugia University).
- o September 2024-present: Coordinator of the BSc in "*Scienze della Terra e dell'Ambiente – Earth Science and Environment*": an interclass and interdepartmental degree program in Geological Sciences (L-34) and Natural Science and Technology (L-32). Department of Physics and Geology (FISGEO) and Chemistry, Biology, and Biotechnology (DCBB) of Perugia University.
- o November 2022-October 2024: Manager of Quality Assurance (QA) of the Department of Physics and Geology (Perugia University).
- o March 2021-present: Member of the PhD Course in Earth System and Global Change (Perugia University).
- o Since January 2020: Member of the "Giunta" of the Department of Physics and Geology (Perugia University).
- o 2018: Director of the postgraduate course in "Microzonazione Sismica e Risposta Sismica Locale" of Perugia University, in collaboration with Consiglio Nazionale dei Geologi (CNG) and Fondazione Centro Studi del CNG.
- o June 2017-March 2021: Member of the PhD Course in Physics and Geology (Perugia University).
- o 2014-2018: Member of CCCS in Geology (Committee Coordination of Courses of Study) of Physics and Geology Department (Perugia University).
- o 2014-2016: Member of the Quality Assurance Committee (QA) for teaching at the Physics and Geology Department (Perugia University).
- o 2014-2016: Member of "Commissione Paritetica", Commission for evaluating and improving teaching activities of Degree courses in Geology of the Physics and Geology Department (Perugia University).
- o 2012-present: Scientific Manager of the laboratory of Applied Geology (Department of Physics and Geology, Perugia University).

RESEARCH ACTIVITIES

Research Lines

The main research lines concern hydrogeology, applied geology to engineering works and land protection, and environmental geology. In detail, the specific research topics are:

- o Analysis of the effects of climate change and anthropogenic pressure on hydrogeological systems in Central Italy.
- o Exploring the interaction between groundwater and surface water in limestone aquifers and focusing on the effects of earthquakes on hydrogeological systems' water circulation and rivers and springs' flow rates.
- o Developing a method for defining rivers' Ecological Flow (EF) by a multidisciplinary integrated approach.
- o Analysis of infiltration/runoff processes in soils at laboratory and field scales.
- o Study the reliability analysis of remote sensing data (rainfall and soil moisture) and their application to define runoff trigger thresholds in catchments with different lithological and land use characteristics.
- o Study landslides in the different climatic contexts of the mountainous regions of southern Europe.

Research Projects

- 2025-present: Consultancy funded by CNR-IRPI Perugia. Title: Support for the analysis of meteorological and climate data and updating of the water balance for the Tiber River basin. Leaders: Prof. Lucio Di Matteo and Prof. Daniela Valigi (UNIPG).
- 2024-present: Scientific manager of the hydrogeological map n. 337 Norcia, funded by ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale) within the framework of CARG (Cartografia Geologica e Geotematica del Servizio Geologico d'Italia). Coordinator: Prof. Daniela Valigi (UNIPG).
- 2022-2025. PRIN 2022. Title: Hydrological Controls on Carbonate-mediated CO₂ Consumption (Hydro4C). Dr. Ivan Marchesini (P.I., CNR-IRPI), Prof. Lucio Di Matteo (Head of Research Unit, FISGEO-UNIPG), Prof. Daniele Penna (Head of Research Unit, DAGRI-UNIFI).
- 2024-present: Fondo di Ricerca di Ateneo (FRA) project: Analisi dei processi idrogeologici ed idromorfologici nel contesto dei cambiamenti climatici ed antropici - *Analysis of hydrogeological and hydro-morphological processes in the context of climate and anthropogenic changes*. Head of the research project: Prof. Lucio Di Matteo (Perugia University).
- 2022-2025. Coordination of the activities regarding the definition of the Ecological Flow (EF) of selected river sections in the framework of Progetto Operativo Ambiente, POA "Acquacentro". Agreement with "Autorità del bacino distrettuale dell'Appennino Centrale" (AuBAC) (Linea di intervento L1 – Attività L1.2 Azione A.1.2.1. Umbria). Title: Implementazione del monitoraggio qualitativo, analisi e sviluppo di studi innovativi e di ricerche sperimentali per la valutazione delle condizioni ambientali dei corpi idrici, con particolare riguardo alla determinazione del deflusso ecologico nei nodi di riferimento del reticolo idrografico umbro ricadente nel territorio del distretto dell'Appennino centrale - *Implementation of qualitative-quantitative monitoring, analysis, and development of innovative studies and experimental research for the assessment of the environmental conditions of water bodies, with particular regard to the determination of the Ecological Flow in the reference nodes of the Umbrian hydrographic network falling within the territory of the Central Apennine district*. Project leaders: Prof. Lucio Di Matteo (FISGEO-UNIPG), Prof. Corrado Cencetti (FISGEO-UNIPG), Prof. Carlo Cardellini (FISGEO-UNIPG), Prof. Massimo Lorenzoni (DCBB-UNIPG), Dr. Marco Stelluti (REGIONE UMBRIA).
- 2023: Research project of Centro InterUniversitario Italiano per l'Argentina (CUIA). Title: Gestión del recurso hídrico en áreas continentales y costeras: casos de estudio sobre la interacción cuali-cuantitativa del agua subterránea y superficial en Italia y Argentina. Project leader: Prof. Lucio Di Matteo (FISGEO-UNIPG), Scientific Partners: DISTAR-UNINA and DICEA-UNINA (coordinator: Prof. Daniela Ducci), UNIV. DE LA PLATA (coordinator: Dr.ssa Silvina Carretero).
- 2023-2024: TECHFEM S.p.a. project agreement. Title: Scientific supervision of in-depth hydrogeological studies along the route corridor of the Sulmona - Foligno and Foligno - Sestino gas pipelines. Project leaders: FISGEO-UNIPG: Prof. Lucio Di Matteo and Prof. Daniela Valigi.
- 2021-2024: Coordination of the activities in the framework of the Project "Revision of high and very high landslide hazard areas of Tiber River Authority: focus on areas affected by the seismic events occurred Since 24 August 2016" - AGREEMENT BETWEEN PUBLIC ADMINISTRATIONS (Autorità di Bacino Distrettuale dell'Appennino Centrale, CERI Research Centre "Previsione, Prevenzione e Controllo dei Rischi Geologici" of the University of Rome "La Sapienza", University of Chieti-Pescara "G. D'Annunzio", University of Camerino, University of Perugia and the University of Urbino "Carlo Bo". D'Annunzio", University of Camerino, University of Perugia and University of Urbino "Carlo Bo"). Project leader: Prof. Corrado Cencetti (Perugia University).
- 2020: Technical and scientific support to the working group of FITS 2020 (International Festival of Sustainable Tourism), including the Municipalities of Acquasparta, Avigliano Umbro, and Montecastrilli territories.
- 2017-2019: Research Project funded by ERG Hydro Company. Evaluation of effects of the 2016 earthquake on Nera River discharge (Central Italy). Project leader: Prof. Lucio Di Matteo (Perugia University).
- 2018-2019: Scientific partner to the "Vetrina Informatica per Sistemi di Trasparenza nell'Agroalimentare" (VISTA Project), PSR Umbria 2014-2020. Partner leader for FISGEO-UNIPG: Dr. Lucio Di Matteo.
- 2015-2017: UNIPG ATENEIO project: Development of integrated methodologies for estimating compaction properties of fine-grained soils. Head of the research project: Dr. Lucio Di Matteo (Perugia University).
- 2014-2016: Research Project funded by "Cassa di Risparmio di Terni". Title: L'ambiente ipogeo della Montagna di Cesi: laboratorio di ricerca per rilievi termo-igrometrici. P.I.: Centro Culture Sotterranee Terni; Partner leader for FISGEO-UNIPG: Dr. Lucio Di Matteo.
- 2013-2015: Research Project funded by "Provincia di Perugia", Parts I-II: Practical application of seismic protection regulations on the construction characteristics of the Umbria Region. Project leaders: Dr. Lucio Di Matteo, Dr.ssa Cristina Pauselli.
- 2013: POR-FESR 2007/2013 - Asse II, Part 2: Drought and Climatic Change (SECLI). Project leader: Dr. Tommaso Moramarco (IRPI-CNR, Perugia).
- 2009: POR-FESR 2007/2013 - Asse II, Part 1: Drought and Climatic Change (SECLI). Project leader: Dr. Tommaso Moramarco (IRPI-CNR).
- PRIN 2008: Climatic change and water resources of fractured and karst systems: open problems, possible solutions and application to some systems of the Umbria-Marche Apennines. Prof. W. Dragoni (Perugia University).
- 2008: Project "Fondazione Cassa di Risparmio di Perugia": Risorse geotermiche nell'alta valle del Tevere. Project leader: Prof. Massimiliano Rinaldo Barchi (Perugia University).

- 2004-2006: Co-head of the "WATER CRISIS" Project: Hydrogeological study of South-West Umbria. AGREEMENTS Agreement with Regione Umbria. Project leader: Prof. Walter Dragoni (Perugia University).
- PRIN 2003: Impact of human activities and climatic variations on the hydrogeological budget of the most important lakes in Central Italy: modeling of the processes taking place and possible management strategies. P.I.: Prof. Walter Dragoni (Perugia University).
- 2001: ATENEO project: Mesozoic carbonate sequences of the Center - North Apennines: permeability and storage capacity estimation from test models, hydrogeological information, and lithogenic features. Project leaders: Prof. Walter Dragoni, Prof. Simonetta Cirilli (Perugia University).
- 2001: CNR Strategic "Project Environment and Land". Effects of Climatic Variations on Water Resources in the Inner Regions of Italy Project leader: Prof. Walter Dragoni (Perugia University).

Member of the Journal's Editorial Board

- 2023-present: Review Editor for "Geohazards and Georisks" of Frontiers in Earth Science (ISSN 2296-6463).
- April 2020-present: Member of the Editorial Board of Geotechnical and Geological Engineering (ISSN 0960-3182).
- March 2020-present: Member of the Editorial Board of Sustainability (ISSN 2071-1050).

Scientific Affiliations

- IAH (International Association of Hydrogeologists).
- AIGAA (Associazione Italiana di Geologia Applicata ed Ambientale).
- IAEG (International Association for Engineering Geology and the Environment).
- SGI (Società Geologica Italiana).
- IAHS (International Association of Hydrological Sciences).
- INQUA "Palaeogroundwater Project" (International Union for Quaternary Research).
- CIPLA "Centro Interuniversitario Per L'Ambiente".

PUBLICATIONS

1. Calli S.S., Akdim B., Arfib B., Benderev A., Beranger S., Burg A., Can O., Charlier J-B, Çelik M., Çetin A.M., Chemseddine F., Deliyska M., **Di Matteo L.**, Dionigi M., Eftimi R., Eybl J., Fronzi D., Goldscheider N., Gökkaya E., Jodar J., Jourde H., Kaminsky E., Katsanou K., Kavousi A., Kaya M., Labat D., Liesch T., Malik P., Massari C., Mayaud C., Mazzilli N., Pracny P., Ravbar N., Rispal N., Seelig S., Sivelle V., Steinmann M., Valigi D., Winkler G., Yahsi A.S., Çaalli K.Ö., Hartmann A. (2026). High-Resolution Karst Spring Discharge Datasets of the Euro-Mediterranean Mountain Regions. EARTH SYSTEM SCIENCE DATA (under review, submitted on 13 Apr 2026). https://editor.copernicus.org/ESSD/ms_records/essd-2026-281.
2. **Di Matteo L.**, Cambi C., Ortenzi S., Manucci A., Venturi S., Fronzi D., Valigi D. (2026). ERA5-Land Data for Understanding Spring Dynamics in Complex Hydro-Meteorological Settings and for Sustainable Water Management. SUSTAINABILITY, 18(2), 970. <https://doi.org/10.3390/su18020970>.
3. Ortenzi S., **Di Matteo L.**, Valigi D., Donnini M., Dionigi M., Fronzi D., Geris J., Guadagnano F., Marchesini I., Filippucci P., Avanzi F., Penna D., Massari C. (2026). Exploring groundwater-surface water interactions and recharge in fractured mountain systems: An integrated approach. HYDROL. EARTH SYST. SCI., 30, 1755–1778. <https://doi.org/10.5194/hess-30-1755-2026>.
4. Carosi A., Lorenzoni F., Zarei F., Brustenga R., **Di Matteo L.**, Valigi D., Cencetti C., Cardellini C., Casadei S., Cappelletti D., Lorenzoni M. (2026). Towards the assessment of E-flows: a fish-based approach for the Tiber River basin (Central Italy). TURKISH JOURNAL OF ZOOLOGY 50 (2): 56-68. <https://doi.org/10.55730/1300-0179.3251>.
5. Mincu F.I., Ortenzi S., **Di Matteo L.**, Chendes V., Neculau G., Ciobotaru N. (2025). Validation of soil moisture satellite products based on hydrological parameters measured in a small basin in Romania. JOURNAL OF WATER AND LAND DEVELOPMENT, 67 (X-XII): 52–60. <https://www.jwld.pl/files/2025-04-JWLD-06.pdf>.
6. Ortenzi S., Massari C., Ciabatta L., Cencetti C., Dionigi M., Marchesini I., Stelluti M., **Di Matteo L.** (2025). Leveraging SMAP-based soil moisture to identify runoff thresholds on flash flood-prone basins in the Mediterranean Region. JOURNAL OF HYDROMETEOROLOGY, 26(7): 975-990. <https://doi.org/10.1175/JHM-D-24-0143.1>.
7. Monte N., Buccì F., Mevoli F.A., Santangelo M., Reichenbach P., **Di Matteo L.**, Marchesini I. (2024). A dataset of geotechnical parameters based on international literature to characterise lithotypes in Italy. SCIENTIFIC DATA, 11(1): 1371. <https://doi.org/10.1038/s41597-024-04095-1>.
8. Ortenzi S., Cencetti C., Mincu F.I., Neculau G., Chendes V., Ciabatta L., Massari C., **Di Matteo L.** (2024). Comparing satellite soil moisture products using in situ observations over an instrumented experimental basin in Romania. REMOTE SENSING, 16(17): 3283. <https://doi.org/10.3390/rs16173283>.
9. Ortenzi S., Mincu F., Neculau G., Chendes V., Cencetti C., **Di Matteo L.** (2024). Definition of runoff thresholds integrating satellite data and in-situ measurements: results from Voinesti Experimental Basin (Romania). ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT, SI(1): 235-242. <https://doi.org/10.4408/IJEGE.2024-01.S-26>.

10. Di Matteo L., Cardinali R., Cerboni V., Guadagnano F., Piagnani G., Ribaldi C., Sotera B.M., Cencetti C. (2023). Integrated approaches for field mapping by traditional investigation and satellite PSInSAR Data: Results from the Montemartano Landslide (Central Italy). *REMOTE SENSING*, 15(5): 1221. <https://doi.org/10.3390/rs15051221>.
11. Ortenzi S., Cencetti C., Stelluti M., Marchesini M., Di Matteo L. (2023). Performance of rainfall and soil moisture satellite products on a small catchment in Central Italy. Submitted to *ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT*, SU1: 99-111. <https://doi.org/10.4408/IJEGE.2023-01.S-13>.
12. Di Matteo L., Spagnoli G. (2023). Predicting compaction properties of soils at different compaction efforts. *PROCEEDINGS OF ICE. GEOTECHNICAL ENGINEERING*, 176(2): 146-156. <https://doi.org/10.1680/jgeen.21.00017>.
13. Nicolini R., Di Matteo L., Galdenzi S., Baldoni F., Frondini F., Valigi D. (2022). Study of dilution processes of sulfidic aquifer hosted by the Fiume-Vento karstic complex, Frasassi (Central Italy). *ITALIAN JOURNAL OF GROUNDWATER*, 11(3), 7-17. <https://doi.org/10.7343/as-2022-567>.
14. Cencetti C., Di Matteo L. (2022). Mitigation measures preventing floods from landslide dams: analysis of pre-and post-hydrologic conditions upstream a seismic-induced landslide dam in Central Italy. *ENVIRONMENTAL EARTH SCIENCES*, 81(15), 1-12. <https://doi.org/10.1007/s12665-022-10515-5>.
15. Todisco F., Vergni L., Ortenzi S., Di Matteo L. (2022). Soil Loss Estimation Coupling a Modified USLE Model with a Runoff Correction Factor Based on Rainfall and Satellite Soil Moisture Data. *WATER*, 14(13), 2081. <https://doi.org/10.3390/w14132081>.
16. Ortenzi S., Mangoni M., Di Matteo L. (2022). Estimating moisture content and hydraulic properties of unsaturated sandy soils of Tiber River (Central Italy): integrating data from calibrated PR2/6 probe and hydraulic property estimator. *ITALIAN JOURNAL OF GROUNDWATER*, 11(1), 17-25. <https://doi.org/10.7343/as-2022-541>.
17. Di Matteo L., Capoccioni A., Porreca, Massimiliano, Pauselli, Cristina (2021). Groundwater-Surface Water Interaction in the Nera River Basin (Central Italy): New Insights after the 2016 Seismic Sequence. *HYDROLOGY*, 8(3): 97. <https://doi.org/10.3390/hydrology8030097>.
18. Di Matteo L., Spigarelli A., Ortenzi S. (2021). Processes in the Unsaturated Zone by Reliable Soil Water Content Estimation: Indications for Soil Water Management from a Sandy Soil Experimental Field in Central Italy. *SUSTAINABILITY*, 13(1): 227. <https://doi.org/10.3390/su13010227>.
19. Valigi D., Cambi C., Checcucci R., Di Matteo L. (2021). Transmissivity Estimates by Specific Capacity Data of Some Fractured Italian Carbonate Aquifers. *WATER*, 13(10): 1374. <https://doi.org/10.3390/w13101374>.
20. Spagnoli G., Feinendegen M., Di Matteo L., Rubinos D. (2020). Closure to Discussion of 'The Flow Index of Clays and Its Relationship with Some Basic Geotechnical Properties'. *GEOTECHNICAL TESTING JOURNAL*, 44(1), 220-221. <https://doi.org/10.1520/GTJ20200005>.
21. Di Matteo L., Dragoni W., Azzaro S., Pauselli C., Porreca M., Bellina G., Cardaci W. (2020). Effects of earthquakes on the discharge of groundwater systems: The case of the 2016 seismic sequence in the Central Apennines, Italy. *JOURNAL OF HYDROLOGY*, 583: 124509. <https://doi.org/10.1016/j.jhydrol.2019.124509>.
22. Pauselli C., Ercoli M., Mancinelli P., Di Matteo L., Goodman R., Polcaro A., Nadali D. (2020). Grain size characterization of Tell Zurghul (Iraq). *QUADERNI DI VICINO ORIENTE*, XVI: 243-248.
23. Di Matteo L., Bulletti L., Capecchi E., La Viola A., Piccinino D., Piscopo V. (2020). Perspectives of using lignin as additive to improve the permeability of in situ soils for barrier materials in landfills. *SUSTAINABILITY*, 12(12), 5197. <https://doi.org/10.3390/su12125197>.
24. Valigi D., Mastroiello L., Cardellini C., Checcucci R., Di Matteo L., Frondini F., Mirabella F., Viaroli S., Vispi I. (2019). Springs discharge variations induced by strong earthquakes: The Mw 6.5 Norcia event (Italy, October 30th, 2016). *REND. ONLINE SOC. GEOL. ITAL.*, 47: 141-146. <https://doi.org/10.3301/ROL.2019.25>.
25. Romeo S., Di Matteo L., Kieffer D.S., Tosi G., Stoppini A., Radicioni F. (2019). The use of gigapixel photogrammetry for the understanding of landslide processes in alpine terrain. *GEOSCIENCES*, 9(2): 99. <https://doi.org/10.3390/geosciences9020099>.
26. Baldanza A., Bizzarri R., Di Matteo L., Lezzerini M., Mencaroni L., Pagnotta S., Raneri S., Vinti G. (2018). New integrated data from clay lacustrine deposits of the Dunarobba Area (Umbria, Central Italy). *ALPINE AND MEDITERRANEAN QUATERNARY*, 31, p. 87-104. <https://dx.doi.org/10.26382/AMQ.2018.14>.
27. Ercoli M., Di Matteo L., Pauselli C. (2018). Comparison of GPR and Capacitance Probe laboratory experiments in sandy soils. In: 2018 17th International Conference on Ground Penetrating Radar, GPR 2018. *IEEE XPLORE*, 1-5. <https://doi.org/10.1109/ICGPR.2018.8441567>.
28. Spagnoli G., Sridharan A., Oreste P., Bellato D., Di Matteo L. (2018). Statistical variability of the correlation plasticity index versus liquid limit for smectite and kaolinite. *APPLIED CLAY SCIENCE*, 156: 152-159. <https://doi.org/10.1016/j.clay.2018.02.001>.
29. Di Matteo L., Pauselli C., Valigi D., Ercoli M., Rossi M., Guerra G., Cambi C., Ricco R., Vinti G. (2018). Reliability of water content estimation by profile probe and its effect on slope stability. *LANDSLIDES*, 15(1): 173-180. <https://doi.org/10.1007/s10346-017-0895-7>.
30. Ercoli M., Di Matteo L., Pauselli C., Mancinelli P., Frapiccini S., Talegalli L., Cannata A. (2018). Integrated GPR and laboratory water content measures of sandy soils: From laboratory to field scale. *CONSTRUCTION AND BUILDING MATERIALS*, 159: 734-744. <https://doi.org/10.1016/j.conbuildmat.2017.11.082>.

31. Spagnoli G., Sridharan A., Oreste P., **Di Matteo L.** (2017). A probabilistic approach for the assessment of the influence of the dielectric constant of pore fluids on the liquid limit of smectite and kaolinite. *APPLIED CLAY SCIENCE*, 145: 37-43. <https://doi.org/10.1016/j.clay.2017.05.009>.
32. Cencetti C., **Di Matteo L.**, Romeo S. (2017). Analysis of Costantino Landslide Dam Evolution (Southern Italy) by Means of Satellite Images, Aerial Photos, and Climate Data. *GEOSCIENCES*, 7: 30. <https://doi.org/10.3390/geosciences7020030>.
33. **Di Matteo L.**, Dragoni W., Maccari D., Piacentini S.M. (2017). Climate change, water supply and environmental problems of headwaters: The paradigmatic case of the Tiber, Savio and Marecchia rivers (Central Italy). *SCIENCE OF THE TOTAL ENVIRONMENT*, 598: 733-748. <https://doi.org/10.1016/j.scitotenv.2017.04.153>.
34. **Di Matteo L.**, Romeo S., Kieffer D.S. (2017). Rock fall analysis in an Alpine area by using a reliable integrated monitoring system: results from the Ingelsberg slope (Salzburg Land, Austria). *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 76: 413-420. <https://doi.org/10.1007/s10064-016-0980-5>.
35. Romeo S., **Di Matteo L.**, Melelli L., Cencetti C., Dragoni W., Fredduzzi A. (2017). Seismic-induced rockfalls and landslide dam following the October 30, 2016, earthquake in Central Italy. *LANDSLIDES*, 14: 1457-1465. <https://doi.org/10.1007/s10346-017-0841-8>.
36. Valigi D., Luque-Espinar J.A., **Di Matteo L.**, Cambi C., Pardo-Igúzquiza E., Rossi M. (2016). Analysis of drought conditions and their effects on Lake Trasimeno (Central Italy) levels. *ITALIAN JOURNAL OF GROUNDWATER*, 5(2): 39-47. <https://doi.org/10.7343/as-2016-215>.
37. **Di Matteo L.**, Menegon S., Rossi A., Liti S. (2016). Understanding karst environments by thermo-hygrometric monitoring: preliminary results from the Cesi Mountain karst system (Central Italy). *ITALIAN JOURNAL OF GROUNDWATER*, 5(1): 25-32. <https://doi.org/10.7343/as-2016-197>.
38. **Di Matteo L.**, Dragoni W., Maccari D., Piacentini S.M. (2016). A contribution to the definition of the ongoing climate change and its impacts on the water resources: the case of Monte Fumaiolo (Central Italy). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, 41: 46-49. <https://doi.org/10.3301/ROL.2016.89>.
39. Romeo S., **Di Matteo L.**, Kieffer D.S. (2016). Rock fall analysis in an Alpine area by using a reliable integrated monitoring system: results from the Ingelsberg slope (Salzburg Land, Austria). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, 41: 191-194. <https://doi.org/10.3301/ROL.2016.126>.
40. **Di Matteo L.**, Dragoni W., Cencetti C., Ricco R., Fucsina A. (2016). Effects of fall-cone test on classification of soils: some considerations from study of two engineering earthworks in Central Italy. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 75(4): 1629-1637. <https://doi.org/10.1007/s10064-015-0808-8>.
41. **Di Matteo L.**, Ricco R., Filippini L., Vinti G. (2016). Permeability of remoulded low-plasticity clay contaminated by bioethanol-based fluids. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*, 75(1): 293-300. <https://doi.org/10.1007/s10064-015-0739-4>.
42. Dragoni W., Giontella C., Melillo M., Cambi C., **Di Matteo L.**, Valigi D. (2015). Possible response of two water systems in Central Italy to climatic changes. In *ADVANCES IN WATERSHED HYDROLOGY* (ISBN-13: 978-1-887-20185-8) edited by Tommaso Moramarco, Silvia Barbetta, Luca Brocca, pp.397-424. © 2015 Water Resources Publications, LLC, Highlands Ranch, CO 80163-0026, USA.
43. Taramelli A., **Di Matteo L.**, Ciavola P., Guadagnano F., Tolomei C. (2015). Temporal evolution of patterns and processes related to subsidence of the coastal area surrounding the Bevano River Mouth (Northern Adriatic) – Italy. *OCEAN & COASTAL MANAGEMENT*, 108: 74-88. <https://doi.org/10.1016/j.ocecoaman.2014.06.021>.
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TEACHING ACTIVITIES

Teaching

- o Since 2025: Risorse Idriche (6 CFU). BSc in “Scienze della Terra e dell'Ambiente”, Perugia University. Module of the “Risorse Idriche ed Ecosistemi Acquatici” course (12 CFU) coordinated by Lucio Di Matteo.
- o Since 2021: Lecturer of the course “Hydraulic properties of soils, 2 hours” and “Geotechnical investigations, 2 hours” at the SYMPLE Hydrogeological Modelling School (Vetralla - VT).
- o Since 2020: Rischio Idrogeologico (6 CFU). MSc in “Ingegneria della sicurezza per il territorio e il costruito”, Perugia University.
- o Since 2020: Environmental Geology (6 CFU). MSc in “Scienze della Terra per la Gestione dei Rischi e dell'Ambiente” and MSc “Geology for Energy Resources”, Perugia University.
- o 2014-2020: Geologia Ambientale (6 CFU). MSc in “Scienze e Tecnologie Geologiche”, Perugia University.
- o 2010-2025: Rilevamento Geologico Tecnico e Monitoraggio (6 CFU). BSc in “Geologia”, Perugia University.
- o 2012-2015: Rischio Idrogeologico (6 CFU). BSc in “Attività di Protezione Civile”, Perugia University.
- o 2010: Rischio Idrogeologico (8 hours). Master in Information processing and management in Civil Protection, Perugia University.
- o 2008-2010: Rischio Idrogeologico (6 CFU). BSc in “Coordinamento delle Attività di Protezione Civile”, Perugia University. Module of the “Rischio Geologico” course (15 CFU).
- o 2004: Hydrogeological Modeling (12 hours). Master in Disaster Risk Management, Expert in Environmental and Geological Risk, Sannio University.
- o 2003-2009: Geologia Tecnica (6 CFU). BSc in Geologia, Perugia University.

PUBLIC ENGAGEMENT

Partnership to Start Up Company

In 2017, Lucio Di Matteo and Cristina Pauselli of Perugia University supported, as scientific partners, the creation of the Startup GEO-SURVEYS in the framework of the POR FESR 2014-2020 call (Azione 1.3.1, "Sostegno delle nuove PMI innovative 2016").
<https://www.fisgeo.unipg.it/documenti/20170511-VerbaleConsiglioDFG.pdf>.