

Curriculum Vitae of Luigi Tosi

CURRENT POSITION

Research Director at the Italian National Research Council (CNR), Institute of Geosciences and Earth Resources (IGG), Padua Unit, Italy.

ACADEMIC APPOINTMENTS AND QUALIFICATIONS

- 2020–present. Research Director, Institute of Geosciences and Earth Resources (IGG) – CNR.
- 2019–2020. Senior Researcher, Institute of Geosciences and Earth Resources (IGG) – CNR.
- 2012–present. Qualified as Full Professor (First Level), ASN Competition Sector 04/A3 – Applied Geology, Physical Geography, and Geomorphology.
- 2012–2019. Qualified as Associate Professor (Second Level), ASN Competition Sector 04/A2 – Structural Geology, Stratigraphy, Sedimentology, and Paleontology.
- 2010–2019. Senior Researcher, Institute of Marine Sciences (ISMAR) – CNR.
- 2001–2009. Researcher, Institute of Marine Sciences (ISMAR) – CNR.
- 2000. Guest Investigator, Woods Hole Oceanographic Institution (USA).
- 1997–2000. Researcher, Institute for the Study of the Dynamics of Large Masses (ISDGM) – CNR.
- 1992–1996. Research Fellow in Applied and Environmental Coastal Geology, Institute for the Study of the Dynamics of Large Masses (ISDGM) – CNR.

RESEARCH AREAS

Research activities focus on the applied and environmental geology of coastal systems, with particular emphasis on the following research areas:

- Natural and anthropogenic land subsidence, relative sea-level rise, and coastal environmental change
- Saltwater intrusion, coastal hydrogeology, and land–sea groundwater interactions
- Coastal vulnerability, risk assessment, resilience, and climate change adaptation
- Remote sensing, SAR interferometry, Earth observation, and advanced geophysical methods
- Innovative monitoring networks and integrated observing systems for land subsidence and saltwater intrusion
- Late Quaternary geology, sedimentology, stratigraphy, and coastal geomorphology
- Geological and geomorphological mapping of coastal and transitional environments
- Environmental modeling and sustainable management of coastal and groundwater resources
- Underwater hydrogeology and scientific scuba diving for frontier research on submarine groundwater systems

RESEARCH MANAGEMENT AND PROJECT PARTICIPATION

Extensive experience in the leadership and management of national and international research projects, including grant acquisition, strategic planning, financial oversight, and stakeholder engagement. Participated in more than 80 research projects, serving in leadership roles in over 50 as project coordinator, principal investigator, work package leader, or task leader.

Selected Research Projects with Leadership Roles

- 2024–2027. VENUS - ConVERting marginal lands of the Mediterranean basin into productive and sustainable agro-ecosystems using low water demanding Neglected and Underutilized Species. Partnership for Research and Innovation in the Mediterranean Area Programme (PRIMA) within the Horizon 2020 framework (EU).
- 2024–2026. SWAMrisk - Subsurface WATER monitoring and Management to prevent drought risk in coastal systems. INTERREG Italy-Croatia CBC Programme, Green and Resilient Shared Environment (EU).
- 2023–2025. RESTORE - REconstruct subsurface heterogeneities and quantify Sediment needs TO improve the REsilience of Venice saltmarshes. PRIN 2022 PNRR (Next Generation EU).
- 2022–2023. SeCure - Saltwater intrusion and climate change: monitoring, countermeasures and informed governance. INTERREG Italy-Croatia CBC Programme, Safety and Resilience (EU).
- 2019–2024. HIETE - The Holocene Imprint on the future Evolution of Transitional Environments. Scientific Research of Excellence (CARIPARO Foundation).

- 2019–2023. IM2LSC - Impact, Mechanism, Monitoring of Land Subsidence in Coastal Cities. International Geoscience Programme (IGCP), Project No. 663.
- 2019–2022. MoST - MOnitoring Sea-water intrusion in coastal aquifers and Testing pilot projects for its mitigation. INTERREG Italy-Croatia CBC Programme, Safety and Resilience (EU).
- 2019–2022. Land subsidence of the Venice Lagoon and related morphological evolution associated with erosional and depositional processes, combined with Relative Sea Level Rise. Interregional Public Works Authority for Veneto, Trentino-Alto Adige and Friuli Venezia Giulia – Ministry of Infrastructure and Sustainable Mobility.
- 2017–2019. Vulnerability of the Northwestern Adriatic coastal areas to relative sea level rise. German Aerospace Center (DLR).
- 2016–2017. Relative sea-level rise scenarios along coastal areas (SP3_LI2). “Italian Research for the Sea”, Italian Flagship Project RITMARE (MIUR).
- 2016–2017. Groundwater–surface water interactions (SP3_LI4_WP4_UO03). “Italian Research for the Sea”, Italian Flagship Project RITMARE (MIUR).
- 2016–2017. Analysis of lagoon subsidence (SP3_LI4_WP4_UO01). “Italian Research for the Sea”, Italian Flagship Project RITMARE (MIUR).
- 2015–2016. Environmental status of the Venice Lagoon and elements for the sustainable planning of port activities. Hydro-stratigraphic investigation – Activity 1. Venice Port Authority.
- 2014–present. Geodetic surveys for the verification of possible movements induced by the exploitation of the hydrocarbon reservoir named “Collalto Stoccaggio”. EDISON S.p.A.
- 2014–2018. COSMO-SkyMed Vs RADARSAT-2 for monitoring natural and anthropogenic components of land movements in the Venice coastal areas. Canadian Space Agency (CSA) – Italian Space Agency (ASI).
- 2013–2015. Ground surface dynamics in the Venice Lagoon: five years of monitoring of natural tidal landforms and anthropogenic structures by TerraSAR-X. TerraSAR-X Research, German Aerospace Center (DLR).
- 2012–2015. Hydrogeological processes, soil dynamics and relative sea-level variations (SP3_WP1_AZ2). “Italian Research for the Sea”, Italian Flagship Project RITMARE (MIUR).
- 2013–2014. Analysis of the saltwater intrusion process in the eastern sector of the drainage basin between the Bacchiglione River and the Gorzone Canal through airborne electromagnetic (AEM) surveys. Adige Euganeo Land Reclamation Consortium.
- 2013–2014. Investigation of saltwater intrusion processes in the coastal aquifer system at the mouths of the Brenta and Adige rivers through airborne electromagnetic (AEM) surveys. Delta del Po Land Reclamation Consortium.
- 2011–2014. Fresh-saltwater interactions in high-value coastal areas: from hydrogeophysical/geochemical characterization of present interactions to modelling and quantification of the expected effects of climate change. CNR – CONICET (Argentina).
- 2010–2011. Land movements in the Venice Lagoon: measuring the natural/regional and anthropogenic/local components by SAR Interferometric Point Target Analysis (IPTA). Italian Space Agency (ASI).
- 2010–2011. Assessing vertical movements of natural tidal landforms and anthropogenic structures at the Venice Lagoon inlets. TerraSAR-X Research, German Aerospace Center (DLR).
- 2009–2010. SHALLOWS - Investigation of the Holocene subsoil of the Venice Lagoon. Co.Ri.La, Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2009–2010. Monitoring vertical land movements along the Venetian coastline through IPTA analysis. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2009–2010. INTE Project: IPTA monitoring of subsidence in the western Venetian drainage basin and experimental application of ERS2-ASAR cross-interferometry for DEM generation. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova, Adige Bacchiglione Land Reclamation Consortium.
- Groundwater-surface water interaction and soil dynamics in the Trujillo area (Peru): an integrated analysis and monitoring approach to assess their effects on the archaeological site of Chan-Chan. Consejo Nacional de Ciencia, Tecnología e Innovación Tecnológica – National Research Council.

- 2008–2013. An integrated monitoring and management approach of hydrologic processes in coastal ecosystems for understanding the relationship between continental and marine waters in Yantai, China, and Venice (North Adriatic Sea), Italy. Chinese Academy of Sciences – National Research Council.
- 2008–2011. ERA - Extension of the ISES-IRMA Altimetric Network for the study of subsidence phenomena in the central territory of the Province of Venice. Province of Venice.
- 2008–2010. New Morphological Plan: geomorphological aspects and subsidence of the Venice Lagoon. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2008–2010. BARENA Project: integrated analysis of lagoon basin subsidence and vertical land movements in sites of particular interest. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2008–2009. Monitoring land subsidence in Venice by TerraSAR-X. German Aerospace Center (DLR).
- 2008–2009. Planning of a new altimetric monitoring network in the central area of the Province of Venice. Province of Venice.
- 2007–2008. Subsidence map of the Province of Venice territory. Province of Venice.
- 2007–2010. Climate change impacts on the Venice Lagoon (case study) – CLIVEN Line. VECTOR Project - Vulnerability of Italian Coasts and Marine Ecosystems to Climate Change and their Role in Mediterranean Carbon Cycles (CORILA, MIUR).
- 2006–2008. Update of subsidence and eustatism assessments in the lagoon. Management of the lagoon GPS network. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2006–2007. INLET - Application of Differential SAR Interferometry for monitoring vertical movements along the Venetian coastline. Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2004–2007. Characteristics of lagoon subsoil: application of innovative ultra-high-resolution seismic methodologies in shallow waters for the study of the Venetian lagoon subsoil – Line 3.16. International call funded by MIUR – CORILA.
- 2003–2005. IRMA - Integration of the Altimetric Monitoring Network. Province of Venice, Ministry of Infrastructure and Transport – Information Service of the Venice Water Authority, Municipality of Jesolo, Basso Piave Land Reclamation Consortium.
- 2003–2005. Project: investigations on subsidence in the northeastern sector of the Province of Venice territory. Province of Venice – Land Protection and Enhancement Department (Soil Protection and Civil Defence Office).
- 2003–2004. BRENTA Project: preliminary study of the saltwater intrusion barrier at the mouth of the Brenta River in the Municipality of Chioggia. Adige-Bacchiglione Land Reclamation Consortium.
- 2001–2007. CARG Geological Mapping (1:50,000) of Sheet 128 “Venezia”. ISPRA and Veneto Region.
- 2001–2007. CARG Geological Mapping (1:50,000), Sheets 148–149 “Chioggia-Malamocco”. ISPRA and Veneto Region.
- 2001–2003. VENEZIA - Subsidence monitoring service in the Venice Lagoon for regional administrative and water authorities, Data User Program Small Service. European Space Agency (ESA).
- Operational work plan and implementation of an experimental phase for developing investigation methods and geological legends related to the 1:50,000 Venezia and Chioggia-Malamocco map sheets. Veneto Region.
- 1999–2003. ISES – Saltwater intrusion and subsidence. Municipality of Chioggia, Land Reclamation Consortia (Adige Bacchiglione, Bacchiglione Brenta, Delta Po Adige), Information Service of the Venice Water Authority, Province of Padua, Province of Venice, and others.
- 1997–1999. Habitat of *Numenius tenuirostris* and other threatened bird species: design and implementation of expansion and management interventions for saltmarsh environments in the Orbetello Lagoon. LIFE+ Project (EU).
- 1997–1999. Saltwater intrusion in the Chioggia area. Province of Venice.

Selected Research Projects as Investigator

- 2023–2024. Offshore-onshore hydrologic continuum and ecosystem variety: focus on marine and continental water exchanges and their effects on marine habitats sensitive to global changes. Bilateral agreement between Consejo Nacional de Investigaciones Científicas y Técnicas – Argentina and the National Research Council (CONICET-CNR).

- 2020–2023. Coastal system changes over the Anthropocene: Natural vs Induced Drivers in China and Italy. Chinese Academy of Sciences – National Research Council.
- 2019–2022. Marine Strategy Framework Directive 2008/56/EC - Legislative Decree 190/2010 (Marine Strategy) for the characterization of coralligenous habitats (tegnùe) and *Pinna nobilis* communities.
- 2019–2022. TRETAMARA - Trezze, Tegnue and marine environments of the upper Adriatic: management proposals. INTERREG Italy-Slovenia, Priority Axis 3: Protecting and Promoting Natural and Cultural Resources (EU).
- 2016–2019. Promoting the co-evolution of human activities and natural systems for the development of sustainable coastal maritime tourism – CO-EVOLVE. Interreg MED 2014–2020, Priority Axis 3 (EU).
- 2016–2020. Water Exchanges – Oceanic and Atmospheric Processes in Chinese Coastal Zones. Dragon 4 Cooperation (ESA and the Ministry of Science and Technology of the P.R. China).
- 2015–2019. Mechanisms, Monitoring and Modeling Earth Fissure Generation and Fault Activation due to Subsurface Fluid Exploitation (M3EF3). IGCP Project 641, UNESCO Geohazards Theme.
- 2015–2018. Evaluación de fuentes de agua subterránea dulce en la planicie costera del Río de la Plata medio y exterior. Research and Development Project Code N782, Universidad de La Plata, Argentina.
- 2014–2017. Proyecto PICT-ANPCyT: Hidrodinámica e hidrogeoquímica de la relación agua dulce - agua salina en ambientes geohidrológicos de la planicie costera del Río de la Plata. Scientific and Technological Research Project Code PICT-2013-2248 (Agencia Nacional de Promoción Científica y Tecnológica, Argentina).
- 2013–2015. Enhancement and management of the Biological Protection Area (ZTB) of the “Tegnùe di Chioggia”. Stratigraphic characterization of sediments and genesis of rocky outcrops (tegnùe) within the Biological Protection Area (ZTB) offshore the Port of Chioggia. Municipality of Chioggia, Veneto Region.
- 2013–2016. Techniques to reduce the impacts of ghost fishing gears and improve biodiversity in northern Adriatic coastal areas (Life GHOST). LIFE+ Programme (EU).
- 2012–2016. EPHEsus - Ecological and PHysical Effects of the SURficial and groundwater exchanges between land and Sea (ID 10558). Dragon 3 Cooperation (ESA and the Ministry of Science and Technology of the P.R. China).
- 2010–2012. GEO-RISKS: Geological, morphological and hydrological processes: monitoring, modeling and impact in northeastern Italy. Strategic University Project, University of Padua.
- 2009–2010. Analysis of local-scale components of relative sea-level rise in the context of future global development scenarios considered by the IPCC. Mitigation through anthropogenic uplift. Co.Ri.La, Venice Water Authority, Ministry of Infrastructure and Transport – Consorzio Venezia Nuova.
- 2009–2010. Integrated sedimentological-geomorphological approach to monitor coastal changes: comparison between two case studies, the Barcelona littoral and the Venice area. Bilateral agreement between Consejo Superior de Investigaciones Científicas – Spain and the National Research Council – Italy (CSIC-CNR).
- 2008–2009. Processos de salinización del agua subterránea y superficial y su relación con las características hidrogeomorfológicas de las provincias de Buenos Aires y Venezia: un criterio integrado de monitoreo para la gestión hídrica del área costera. Bilateral agreement between Consejo Nacional de Investigaciones Científicas y Técnicas – Argentina and the National Research Council – Italy (CONICET-CNR).
- 2007–2008. Critical aspects of hydro-geomorphological risk in sandy coastal areas of the northern Adriatic (Italy) and the Province of Buenos Aires (Argentina). Bilateral agreement between Consejo Nacional de Investigaciones Científicas y Técnicas – Argentina and the National Research Council – Italy (CONICET-CNR).
- 2006–2007. Geomorphological dynamics processes of the Po Delta. Delta Po Adige Land Reclamation Consortium.
- 2005–2006. Hydro-geomorphological risks in the coastal areas of the northern Adriatic (Italy) and the Province of Buenos Aires (Argentina). Bilateral agreement between Consejo Nacional de Investigaciones Científicas y Técnicas – Argentina and the National Research Council – Italy (CONICET-CNR).

- 2004–2006. Groundwater flows in the Venice lagoon system: determination of groundwater flows in the Venice lagoon system through natural isotopic tracers and geoelectrical tomography. Research Line 3.10, International Call funded by MIUR through CORILA.
- 2003–2006. Tangential Guanabara Bay (Rio de Janeiro, Brazil) Aeration and Recovery. Ministry of Foreign Affairs (MAE).
- 2003–2004. Investigations on coastal morphological settings. Morphological investigation line on shoreline evolution. River Basin Authority of the Isonzo, Tagliamento, Livenza, Piave, Bacchiglione and Brenta rivers.
- 2001–2004. Monitoring and management of coastal areas in relation to natural and human-induced environmental impacts, climate change, and mean sea-level variations. Bilateral Agreement between the Chinese Academy of Sciences and the National Research Council (CAS-CNR).
- 2000–2003. CORILA Project Line 3.2 “Hydrodynamics and Morphology”, WP2 “Morphology”. International Call funded by MIUR through CORILA.
- 2000–2003. Venice Organic Soil Subsidence (VOSS) - Experimental and modeling study of peat soil subsidence and prediction of the altimetric evolution of the Venice Lagoon drainage basin in relation to climate change. International Call funded by MIUR through CORILA.
- 1998–2001. ERS SAR Differential Interferometric Application in Urban Areas - Land Subsidence Mapping with JERS SAR Interferometry. ESA-ESRIN Project – DUP, European Space Agency (ESA).
- 1996–1999. Assessment of saltwater intrusion in the Venetian aquifer system due to mean sea-level changes, meteo-climatic variations, and anthropogenic groundwater exploitation. Strategic Research Project “Environment and Territory – Climate Impact”, National Research Council (MIUR).
- 1995–1997. Study of the evolutionary processes of selected salt marshes in the Venice Lagoon (Northern Basin) in relation to sea-level variations. Consorzio Venezia Nuova – Venice Water Authority.
- 1994–1996. Venetian Lagoon System – Phase II. National Research Council Targeted Project (MIUR).
- 1994–1995. ELNA Project - Eutrophic Limits of the Northern Adriatic Sea. FP4 Environment Programme (EU).
- 1992–1994. Venetian Lagoon System – Phase I, Research Line 2.5, Operational Unit 1. National Research Council Targeted Project (MIUR).
- 1992–1994. Global assessment of natural and anthropogenic subsidence in the lagoon district. National Research Council Targeted Project “Venetian Lagoon System” – Phase I, Subproject 2 (Modeling), Research Line 2.7, Operational Unit 1 (MIUR).

PARTICIPATION IN SCIENTIFIC ORGANIZATIONS

- 2017–present. Elected Italian member of the UNESCO Land Subsidence International Initiative (LaSII).
- 2017–2022. Member of the Scientific and Technical Committee of the Consortium for Coordination of Research Activities concerning the Venice Lagoon System (CORILA), supervised by the Italian Ministry of Education, University and Research (association among Ca’ Foscari University of Venice, IUAV University of Venice, University of Padua, National Research Council, and the National Institute of Oceanography and Experimental Geophysics).

PARTICIPATION IN TECHNICAL-SCIENTIFIC COMMITTEES AND WORKING GROUPS

Selected activities:

- Since 2025. Member of the “Tropics” Working Group established by the Director of the CNR Department of Earth System Science and Environmental Technologies (DSSTTA).
- 2023–2024. Subsidence and geology expert appointed by the Veneto Region to support the discussion panel established by the Italian Government regarding new natural gas exploration concessions in the Adriatic Sea.
- 2015–2018. Technical-scientific expert appointed by MIUR within the ERA-NET Co-funding Programme of the European Commission – Horizon 2020.
- 2017–2022. Member of the supervisory committee of the Framework Agreement between the Italian Space Agency (ASI) and CORILA.
- 2016–2021. Scientific coordinator of the Memorandum of Understanding between Centro de Investigaciones Geológicas – CONICET, Universidad Nacional de La Plata, and the Institute of Marine Sciences (ISMAR-CNR).

- 2016–2021. Scientific coordinator of the Memorandum of Understanding between the Institute of Oceanology of the Chinese Academy of Sciences (Qingdao, P.R. China) and ISMAR-CNR.
- 2015–2018. Member of the Scientific Supervisory Committee for the Monitoring Plan of the effects of tidal regulation construction works at the Venice Lagoon inlets.
- 2014–2017. Coordinator of the ISMAR-CNR thematic group “Environmental Geology of Coastal Systems”.
- 2014–2016. Coordinator of activities within the research area “Hydrogeological processes, soil dynamics and relative sea-level variations” under the cooperation agreement between the Province of Venice Geological Service and ISMAR-CNR.
- 2015–2018. Responsible for the management and technical-scientific coordination of the SAR satellite inter-calibration and subsidence monitoring observational networks established at the Nicelli Airport area (Venice Lido).
- 2015–2018. Scientific diving coordinator for underwater scientific activities within the Tegnùe di Chioggia Biological Protection Area (ZTB).
- 2011–2015. Head of Module TA.P02.028.005 “Holocene evolution of lagoon systems” within the project “Evolution of continental margins and ocean basins with reference to fluid circulation and emissions” of the CNR Department of Earth and Environment.
- 2011–2018. Responsible for the management and technical-scientific coordination of the “Venice area aquifer monitoring network”.
- 2009–2010. ISMAR representative in the research agreement between ISMAR-CNR and the National Institute of Oceanography and Applied Geophysics (OGS) for seismic surveys in the Venice Lagoon.
- 2007–2011. Scientific representative appointed by CORILA for CNR-GEOM activities related to the New Morphological Plan of the Venice Water Authority.
- 2005–2008. CNR representative within the IRMA Working Group for coordinating studies and investigations on subsidence processes in the eastern Venetian coastal plain.
- 2004–2008. CNR representative for “Geology” in the bilateral cooperation agreement between the Institute of Oceanology (Chinese Academy of Sciences, Qingdao) and ISMAR-CNR.
- 2007–2010. CNR representative for Geology in the coordination committee of the Scientific Cooperation Agreement between Universidad Privada Antenor Orrego (Peru), Universidad Nacional de La Plata (Argentina), and ISMAR-CNR.
- 2000–2003. CNR-ISDGM coordinator within the working group for the computerized geomorphological map of the Province of Venice territory (LEO Project).
- 2000–present. Member of the International Association of Hydrological Sciences (IAHS).
- 1999–2002. CNR-ISDGM representative in the ISES Working Group for coordinating studies and investigations on saltwater intrusion and subsidence processes in the southern Venetian plain.

DIRECTOR OF CARG GEOLOGICAL SHEETS

- 2001–2007. Director of the Geological Sheet 128 “Venezia” – Geological Map of Italy, within the National Geological and Geothematic Cartography Project (CARG Project).
- 2001–2007. Director of the Geological Sheet “Chioggia-Malamocco” – Geological Map of Italy, within the National Geological and Geothematic Cartography Project (CARG Project).

EVALUATION OF SCIENTIFIC RESEARCH PROGRAMMES

- Referee appointed by the Netherlands Organization for Scientific Research (NWO) for a project on sea-level change, subsidence, and morphological development in the Dutch Wadden Sea region, commissioned by the Dutch Wadden Academy.
- Evaluator for the programme “Create a network around your research idea” promoted by Politecnico di Torino.
- Evaluator for the “MONTALCINI” programme promoted by the Italian Ministry of Education, University and Research (MIUR).
- Evaluator for the “Futuro in Ricerca 2013 FIRB” funding programme promoted by MIUR.

EDITORIAL ROLES IN ISI JOURNALS

- 2026–present. Associate Editor, Marine Geoscience and Energy Resources.
- 2026–present. Guest Editor, Terrestrial, Atmospheric and Oceanic Sciences.

- 2025–present. Guest Editor, Journal of Marine Science and Engineering.
- 2023–present. Guest Editor, Frontiers in Earth Science.
- 2016–present. Editorial Board Member, Scientific Reports.
- 2016–2025. Associate Editor, Marine and Petroleum Geology.

REVIEWER ACTIVITY FOR ISI JOURNALS

- 2005–present. Referee appointed by more than 40 ISI journals for over 120 review assignments.

SCIENTIFIC PUBLICATIONS

His publication record comprises peer-reviewed journal articles, book chapters, conference proceedings, and other scholarly works, produced in collaboration with more than 270 co-authors worldwide. Bibliometric indicators and publication metrics are available through the following author profiles:

- Scopus Author Profile: <https://www.sciencedirect.com/author/7006198056/luigi-tosi>
- Google Scholar Profile: <https://scholar.google.com/citations?user=0m6gHUMAAAAAJ&hl=en>

A selection of representative publications is provided below.

ISI-indexed Papers

- Lionello P., Di Fant V., Pasquier U., Tosi L., Le Cozannet G., Nicholls R.J., Cramer W., Cremades R., Giupponi C., Hinkel J., Sfriso A., Teatini P., Vafeidis A.T., Umgiesser G., Haasnoot M. (2026). Long-term adaptation pathways for Venice and its lagoon under sea-level rise. **SCIENTIFIC REPORTS**, 16(1), 9438. DOI: 10.1038/s41598-026-39108-z
- Jarray F., Kotti M.L., Slatni A., Yacoubi S., Ben Abdallah M.A., Cosma M., Da Lio C., Donnici S., Tosi L., Aschonitis V., Hermassi T. (2026). Land Degradation and Resilience Pathways: The Role of *Opuntia ficus-indica* in Semi-Arid Tunisia. **REMOTE SENSING**, 18(5), 739. DOI: 10.3390/rs18050739
- Tosi L., Cosma M., Yaciuk P.A., Aljinović I., Artuso A., Čarija J., Da Lio C., Frison L., Srzić V., Tateo F., Donnici S. (2025). Developing Integrated Supersites to Advance the Understanding of Saltwater Intrusion in the Coastal Plain Between the Brenta and Adige Rivers, Italy. **JOURNAL OF MARINE SCIENCE AND ENGINEERING**, 13(12), 2328. DOI: 10.3390/jmse13122328
- Zoccarato C., Baldan S., Gatto F., Zorzan P., Cosma M., Da Lio C., Donnici S., Tosi L., Minderhoud P.S.J., Bergamasco A., Teatini P. (2025). How Compressible Are Salt Marshes? Unique Field Experiments Combined With Advanced Modeling Provide Novel Insights From the Venice Lagoon. **JOURNAL OF GEOPHYSICAL RESEARCH: EARTH SURFACE**, 130(12), e2025JF008539. DOI: 10.1029/2025JF008539
- Hung W.-C., Hwang C., Tosi L., Lin G.-Z., Lin S.-H., Chen Y.-A. (2025). Near real-time subsidence monitoring and AI forecasting with multi-depth extensometers. **ENGINEERING GEOLOGY**, 359, 108447. DOI: 10.1016/j.enggeo.2025.108447
- Gaiolini M., Rama F., Mastrocicco M., Cosma M., Donnici S., Tosi L., Colombani N. (2024). Disentangling hydrodynamic drivers of the Southern Venice (Italy) coastal aquifer via frequency decomposition analysis: Insights, challenges, and limitations. **JOURNAL OF HYDROLOGY: REGIONAL STUDIES**, 56, 102039. DOI: 10.1016/j.ejrh.2024.102039
- Tosi L., Da Lio C., Cosma M., Donnici S. (2024). Vulnerability of tidal morphologies to relative sea-level rise in the Venice Lagoon. **SCIENCE OF THE TOTAL ENVIRONMENT**, 931, 173006. DOI: 10.1016/j.scitotenv.2024.173006
- Mu K., Tang C., TOSI L., Li YF, Zheng XY, Donnici S, Sun JX, Liu J, Gao XL (2024). Coastline Monitoring and Prediction Based on Long-Term Remote Sensing Data-A Case Study of the Eastern Coast of Laizhou Bay, China. **REMOTE SENSING**, 16, 185, <https://doi.org/10.3390/rs16010185>
- Alessandrino L, Gaiolini M, Cellone F, Colombani N, Mastrocicco M, Cosma M, Da Lio C, Donnici S, TOSI L (2023), Salinity origin in the coastal aquifer of the Southern Venice lowland. **SCIENCE OF THE TOTAL ENVIRONMENT**, 905. <https://doi.org/10.1016/j.scitotenv.2023.167058>
- Gordini, E., Donda, F., TOSI, L., Bergamasco, A., Bergamasco, A., Donnici, S. (2023). The role of methane seepage in the formation of the Northern Adriatic Sea geosites, **MARINE GEOLOGY**, 462. <https://doi.org/10.1016/j.margeo.2023.107081>

- Yang, B., Gao, X., Liu, J., Xie, L., Zhao, J., Xing, Q., Donnici, S., TOSI, L., Tang, C. (2023). Biogeochemical characteristics of sedimentary organic matter in coastal waters of a mariculture area: The big impact of bay scallop farming, **SUSTAINABILITY**, <https://doi.org/10.3390/su151310595>
- Hung, W.-., Hwang, C., TOSI, L., Lin, S.-., Tsai, P.-., Chen, Y.-., Wang, W.-., Li, E.-., Ge, S. (2023). Toward sustainable inland aquaculture: Coastal subsidence monitoring in Taiwan, **REMOTE SENSING APPLICATIONS: SOCIETY AND ENVIRONMENT**, 30. <https://doi.org/10.1016/j.rsase.2023.100930>
- Zoccarato, C., Minderhoud, P.S.J., Zorzan, P., TOSI, L., Bergamasco, A., Girardi, V., Simonini, P., Cavallina, C., Cosma, C., Da Lio, C., Donnici, S., Teatini, P. (2022). In-situ loading experiments reveal how the subsurface affects coastal marsh survival. **COMMUNICATIONS EARTH & ENVIRONMENT**, <https://doi.org/10.1038/s43247-022-00600-9>
- Cavallina, C., Bergamasco, A., Cosma, M., Da Lio, C., Donnici, S., Tang, C., TOSI, L., Zaggia, L. (2022). Morpho-Sedimentary Constraints in the Groundwater Dynamics of Low-Lying Coastal Area: The Southern Margin of the Venice Lagoon, Italy, **WATER** (Switzerland), 14, 17. <https://doi.org/10.3390/w14172717>
- Civile, D., Zecchin, M., TOSI, L., Da Lio, C., Muto, F., Sandron, D., Affatato, A., Accettella, D., Mangano, G. (2022). The Petilia-Sosti Shear Zone (Calabrian Arc, southern Italy): An onshore-offshore regional active structure, **MARINE AND PETROLEUM GEOLOGY**, 141. <https://doi.org/10.1016/j.marpetgeo.2022.105693>
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Terrestrial, Marine, and Underwater Surveys

Participated in several hundred geological, geophysical, and hydrogeological surveys in coastal, lagoon, marine, and underwater environments (including more than 600 scientific scuba dives), primarily serving as chief scientist or mission leader.

Mentoring Activities

Supervised young researchers, research fellows, PhD candidates, and master's students from Italy and abroad through more than thirty mentoring assignments.

AWARDS AND RECOGNITIONS

- Honorable Mention, Chinese Academy of Sciences – Yantai Institute of Coastal Zone Research (China)
- Award, Canadian Society of Exploration Geophysicists (CSEG)
- Honorable Mention, National University of La Plata (Argentina)
- Recognition from the Municipalidad Distrital de Huanchaco (Peru)
- Recognition from the Universidad Privada Antenor Orrego (Trujillo, Perú)

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