


PERSONAL DETAILS



Alberto Bosino

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Gender: M

Nationality: Italian

Date of birth: 28/4/1992

CURRENT POSITION

Assistant Professor (RTT), University of Milano-Bicocca, Department of Earth and Environmental Sciences, Piazza della Scienza, 1 - U1, 20126 Milano (Italy).

NATIONAL SCIENTIFIC HABILITATION (ASN)

Habilitation in Physical Geography and Geomorphology at the Italian Ministry for Education, Universities and Research (for Associate Professor level - SSD Geo/04 - GSD GEOS-03/A - Geografia fisica e geomorfologia). Achieved on 05/6/2023.

BIBLIOMETRIC RECORDS

31 Research publications in International Scientific Journals (Scopus).
412 Citation (Scopus).
11 H-Index (Scopus).

SKILLS

Geomorphology, Cartography, GIS, Pedology, Applied Geomorphology.

ACCADEMIC CAREER

- (01/01/2025-now) -**Assistant Professor (RTT) at the University of Milano-Bicocca - GEOS-03/A**
- (10/01/2022-31/12/2024) -**Researcher (RTDA PON) at the University of Milano-Bicocca - GEO/04**
Project title: ‘Sviluppo metodologico ed applicativo di cartografia tematica geomorfologica multiscala e multitemporale, a copertura completa, per applicazioni di valutazione ambientale delle attività territoriali e per la riduzione degli impatti del cambiamento climatico’.
- Department of Earth and Environmental Sciences University of Milano-Bicocca.
- (01/3/2021-31/12/2021) -**Postdoctoral fellow at the University of Pavia – GEO/04 – Life DRIVE Project**
Project title: ‘Implementation of a model able to simulate the soil-water balance on slopes characterized by vineyards in the Lombardy-Emilia Apennines’.
- (2017-25/01/2021) -**PhD in Earth and Environmental Sciences (XXXIII cycle), Excellent**
-Title: ‘Integrative assessment of Badland erosion dynamics in the Oltrepo area’.
- Department of Earth and Environmental Sciences University of Pavia-Italy. Supervisor: Prof. Michael Maerker.
- (2015-29/9/2017) -**Master’s degree in Applied Geology, LM-74, 110/110 with honor**
-Title: ‘A new methodology for detection and interpretation of land uplift using A-DInSAR techniques: London and South Wales Coalfield cases of study’.
- Department of Earth and Environmental Sciences University of Pavia-Italy. Collaboration with the British Geological Survey (BGS), Keyworth-UK. Supervisor: Prof. Claudia Meisina.
- (March-June 2017) -**Erasmus+ Traineeship**
- Collaboration with the British Geological Survey (BGS)-Natural Environmental Research Council(NERC), (Keyworth, UK).
- Uplift phenomena analysis in urban and rural areas through the use of A-DInSAR techniques. London and South Wales case studies. Data analysis and processes assessment with fieldwork in South Wales.
Supervisor: Dr. Luke Bateson and Dr. Alessandro Novellino.
- (2012-02/10/2015) -**Bachelor’s degree in Geological Sciences, L-34, 109/110**
-Title: ‘Historical earthquakes and generation of shaking maps in GIS’.
- Department of Earth and Environmental Sciences University of Pavia-Italy. Collaboration with the European Centre for Training and Research in Earthquake Engineering (EUCENTRE), Pavia.
Supervisor: Prof. Francesco Zucca and Dr. Emilia Fiorini.

EDUCATION

- (16/4/2026) -**La Cartografia Geotematica del programma CARG. Firenze 16/4/2026, online.**
- (07/6/2024) -**DANCALIA:** Il contributo dei geologi italiani nell'esplorazione dell'Afar, ISPRA.
- (16-20/10/2023) -**GPIP – STARTING A GRANT PROPOSAL**, provided by UNIMIB, 2ETCS.
- (January-May 2022) -**1° Winter School** of Geomorphological mapping (SIRG), University of Camerino (Italy), 13 CFU.
- (10/3/2021) -**Webinar:** How to be an effective peer reviewer. Presented with Journal of Maps.
- (4-5/2/2021) -**Courses:** Statistical Regression Models for Engineering Geology through R. Organized by University of Pavia, 3ECTS.
- July 2020 -**24 CFU for teaching**
 i) Antropologia, ii) Metodologie e tecnologie didattiche, iii) Psicologia, iv) Pedagogia. Courses offered by the University of Pavia, 2020 (24 CFU).
- (28/5/2020) -**Seminar:** “Eni, giacimenti e trasformazione energetica” - Competenze Trasversali. (0.5 CFU).
- (26-30/8/2019) -**1st International Summer School** on Statistical analysis of spatial Data in Agro-Environmental research. Como (4 CFU).
- (23-24/5/2019) -**Field course** “The Meaning of a Disaster”, organized by University of Pavia in the Vajont valley. (2 CFU).
- (01-03/10/2018) -**Course:** Soil Water Assessment Tool (SWAT) course (3 CFU).
- (March-June 2018) -**Course:** R. Course offered by the University of Pavia (6 CFU).
- (March-June 2018) -**Course:** Geopedology. Course offered by the University of Pavia (6 CFU).
- (March-June 2018) -**Course:** Laboratorio di GIS. Course offered by the University of Pavia (6 CFU).
- (02-06/07/2018) -**2nd International Summer School** of Geopedology in Oltrepo Pavese area. University of Pavia, Lombardy, Italy. (10 CFU).

TEACHING ACTIVITIES

- (Teaching) -Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e il Territorio (STAT). Course title: *Laboratorio “dati territoriali”*. 2 CFU (20 hours). A.A. 2025/2026.
- Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie per l'Ambiente (STA). Course title: *Laboratorio di Cartografia Tematica Geoambientale*. 3.5 CFU (34 hours). A.A. 2025/2026.
- Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie Geologiche. Course title: *Attività didattica di Campus Abroad, insegnamento di Geomorfologia*. 2 CFU (24 hours) A.A. 2025/2026.
- Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie Geologiche. Course title: *Geografia Fisica* (field excursions), (1.5CFU-18 hours). A.A. 2023/2024, 2024/2025, 2025/2026.
- Teacher at ‘*Laboratorio di Integrazione I*’. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie per l'Ambiente (STA). (1CFU-10 hours-). A.A. 2023/2024, 2024/2025, 2025/2026.
- Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie per l'Ambiente e il Territorio (STAT). Course title: *Eventi Estremi (esercitazioni)*. 2 CFU (20 hours). A.A. 2022/2023, 2023/2024, 2024/2025.
- Lecturer at the University of Milano-Bicocca for the Advanced Research Methodologies for a New Public Administration - *PhD Program (39° Cycle)*. Course title ‘*Geographic Information Systems and Spatial Planning Analysis*’. (2CFU-12 hours). A.A. 2023/2024, 2024/2025.
- Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie Geologiche. Course title: *Geografia Fisica* (field excursions), (30 hours).

A.A. 2022/2023.

-Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie per l'Ambiente (STA). Course title: *Cartografia Tematica Geoambientale*. 2 CFU (16 hours). A.A. 2022/2023, 2023/2024 and 2024/2025.

-Teacher at the 'Corso introduttivo di fotointerpretazione' (1CFU). 25/9/2023 University of Milano-Bicocca, Dep. Earth and Env. Sciences. A.A. 2022/2023.

-Contract Professor at the University of Parma, Department of Chemistry, Life Sciences and Environmental Sustainability. Corso di Laurea Magistrale in Scienze e Tecnologie per l'Ambiente e le Risorse (STAR). Course title: *GIS e cartografia per la gestione e la rappresentazione di dati ambientali*. 6 CFU (52 hours) A.A. 2022/2023.

-*Visiting Professor* (Fellowship) at the Kazimierz Wielki University of Bydgoszcz, Department of Inland Waterways Revitalization. Course title: Geomorphological and open-source applications to model soil erosion. 16 hours of teaching. A.A. 2022/2023.

-Contract Professor at the University of Parma, Department of Chemistry, Life Sciences and Environmental Sustainability. Corso di Laurea Magistrale in Scienze e Tecnologie per l'Ambiente e le Risorse (STAR). Course title: *GIS e cartografia per la gestione e la rappresentazione di dati ambientali*. 6 CFU (56 hours) A.A. 2021/2022.

-Assistant Professor at the University of Milano-Bicocca. Department of Earth and Environmental Sciences. Corso di Laurea in Scienze e Tecnologie Geologiche. Course title: *Attività didattica di Campus Abroad, insegnamento di Geomorfologia*. 2 CFU (20 hours) A.A. 2021/2022, 2022/2023, 2023/2024.

(Seminars from 2018)

27/11/2025: Workshop 'Quali Competenze' Orientamento per le classi quarte: formazione universitaria e professioni STEM, per le classi IV e V superiori. Progetto STEM Up for Future, 4h insegnamento.

-28/4/2023: Seminario online, promosso da UNICAM, AIGEO: 'Esperienze della Winter School in Rilevamento geomorfologico e presentazione del libro "Geomorfologia di terreno delle forme fluviali, fluvio-glaciali e dovute al dilavamento. Atlante pratico per il rilevamento e la cartografia"'.

-28/4/2022: Celebrazioni Taramelliane. 'L'occhio e la mano di Taramelli, la geomorfologia in un acquerello'. Auditorium Ugo Foscolo, Liceo Classico Ugo Foscolo.

-3-10/10/2021: '9° Edizione Settimana del Pianeta Terra'. Il nostro futuro. "Montagne in forma: vedere il paesaggio con occhi diversi". PLS Educational workshop.

-2021: 10h Seminars for the course of: 'Physical geography and cartography'(1°-year students of Natural Sciences – UNIPV).

-2020: 6h Seminars for the course of: 'Physical geography and cartography'(1°-year students of Natural Sciences – UNIPV).

-21/10/2020: 2h Seminars for the Course of: 'Geomorphology'(2°-year students of Geological Sciences – UNIPV).

-13-20/10/2019: '7° Edizione Settimana del Pianeta Terra'. Alla scoperta delle Geoscienze; dalla micro alla macroscale. "Geomorfologia in 3D". PLS Educational workshop.

-2019: 12h Seminars for the course of 'Laboratory of GIS' (4°-year students of Applied Geological Sciences – UNIPV).

-4/2/2019: Laboratori PLS 'Geomorfologia in 3D'. PLS Educational workshop.

-2019: 12h Seminars for the course of 'Geopedology' (5°-year students of Applied Geological Sciences -UNIPV).

-14-21/10/2018: '6° Edizione Settimana del Pianeta Terra'. Alla scoperta delle Geoscienze; dalla micro alla macroscale. "Geomorfologia in 3d". PLS Educational workshop.

-2018: 12h Seminars for the course of 'Laboratory of GIS' (4°-year students of Applied Geological Sciences – UNIPV).

-2018: 12h Seminars for the course of: 'Physical geography and cartography' (1°-year students of Natural Sciences – UNIPV).

- (Tutoring 2020-2021) -2020 and 2021: 20 hours for the course of ‘Cartography’(1°-year students of Geological Sciences-UNIPV).
 -2020: 17 hours for the course ‘Geomorphology’(2°-year students of Geological Sciences-UNIPV).
- (Supervising 2017-2024) -From November 2025: Co-supervisor for the PhD thesis Simone Riva-UNIMIB-Dottorato industrial (strategic innovation for sustainable and smart ecosystems). .
 -From November 2023: Co-supervisor for the PhD thesis of Laura Franceschi-UNIMIB-Dottorato in Scienze Chimiche, Geologiche e Ambientali (Chemical, Geological and Environmental Sciences).
 -From January 2023-May 2026: Co-supervisor for the PhD thesis of Emiliya Hamidova-UNIMIB-Dottorato in Scienze Chimiche, Geologiche e Ambientali (Chemical, Geological and Environmental Sciences).
 -From January 2022 to 2024: Co-supervisor for the PhD thesis of Manuel La Licata-UNIPV-Dottorato in Scienze della Terra e dell’Ambiente (Earth and Env. Sciences).
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- From 2024 to present: Supervisor for the Bachelor thesis (STA): Sarah Aliu, Luca Montali -UNIMIB.
 -From 2022 to 2026: Co-supervisor for the Bachelor thesis in Geological sciences of Francesco Ferraiuolo, Emanuele Canali, Massimo Ronchi, Aurora Bossi, Giorgio Montagna, Ilaria Lorusso, Stefano Frigerio -UNIMIB.
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- 2019-2020: Co-supervisor for the Bachelor thesis in Natural Sciences of: Laura Simoncelli-UNIPV.
 -2020-2021: Co-supervisor for the Bachelor thesis in Geological Sciences of Michael Milan, Nicole Curci-UNIPV.
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- From 2024 to 2025: Supervisor for the Master thesis (STAT): Simone Riva, Riva Gianmarco, Ester Paradiso-UNIMIB.
 -2017-2021: Co-supervisor for the Master thesis in Applied Geology of: Giovanni Cherici, Debora Lunini, Alice Bernini, Laura Simoncelli-UNIPV.
- (External PhD candidate reviewer) -2024, 2025 for Azadeh Katebikord (UNIPV PhD candidate). Thesis title: The effect of changing soil surface conditions on runoff and soil erosion using an experimental approach.
 -2025 for Mohammed Mohammedawel Jeneto (UNIPV PhD candidate). Thesis title: Integrated modelling approaches for water-Induced soil erosion in diversified agricultural landscapes: evaluating the effects of crop diversity, and the role of subsurface Tile drainage systems on surface erosion processes.

RESEARCH ACTIVITIES

- January 2025 **Scientific meeting at Instituto Geológico y Minero de España (IGME) - Madrid**
 -Exchange of experiences regarding geomorphological mapping approaches.
- April 2023-2024 **CARG Project - Geomorphological survey related to ‘Foglio 302-Tolentino’**
 -Field survey in the Marche region and geodatabase realization.
- (June 2022) **Field work in Val D’Arda, Northern Apennines**
 - Collaboration with the University of Pavia.
 - Geomorphological mapping and soil survey.
- (October 2021) **Field work in Góra Św. Wawrzyńca archeological area (Poland)**
 - Collaboration with the University of Bydgoszcz.
 - Geomorphological and geophysical investigation through ERT catenas.
 Granted by the UNIPV.
- (June and September 2021) **Field work in Val Grande National Park (Italy) - Collaboration with CNR (IGG)**
 - Collaboration in the Belmont ABRESO Project entitled ‘Abandonment and rebound: Societal viewson landscape- and land-use change and their impacts on water and soils’
 - Geomorphological and pedological assessment. During field surveys several soil profiles were dug and a full profiles description was done. In addition, the collected samples were prepared to be analyzed from physically and chemically point of view.
 Granted by IGG and UNIPV.
- (January-February 2020) **Collaboration with the ‘Technische Universität Bergakademie Freiberg’**
 - Soil and Water Conservation Unit, Freiberg, (Germany).
 - Physically based models’ application on soil erosion. The physically based model (EROSION 2D/3D MODEL) was settled starting from field measurements in Apennine areas (Oltrepo Pavese). During the abroad experience in Freiberg the model was tested and trained and additional laboratory analysis e.g., Grain size analysis and TOC evaluation were done.
 Granted by UNIPV.
 Ref: Prof. Anne Routschek.
- (November 2019) **Field work in Poland, municipality of Koronowo**
 - Collaboration with the University of Bydgoszcz.
 - Soil profiles, geomorphological mapping on Brda river terrace deposits, geoelectric measurements (ERT catenas) and

fluvial morphological variation assessment.
Granted by the ATB of Potsdam (Germany).
Ref: Dr. Dawid A. Szatten.

- (August 2019) **Field work in Basilicata region**
- Geological survey of the Livello Bonarelli and geomorphological mapping in Fontana Valloneto and Campomaggiore area.
Granted by UNIPV.
- (February-March 2019) **Field work in South Africa, KwaZulu-Natal**
- Collaboration with the Council for Geosciences – Pietermaritzburg office.
Granted by Heidelberg Academy of Sciences and from UNIPV.
- Geomorphological survey and mapping, soil profile description, stochastic modelling of gully and rill-interrill erosion.
- Ref: Dr. Greg Botha.
- (2018-2019) **Mapping and modelling experiences**
-South African dataset
- (December 2018) **Field work and modelling in Liguria region**
- Collaboration with the University of Genova.
- Geomorphological survey and mapping on Badland's areas of Piana Crixia, stochastic modelling of Badlandsand rill-interrill erosion.
- (January-February 2018) **Field work in South Africa, KwaZulu-Natal**
- Collaboration in 'The Role of Culture in Early Expansions of Humans, "ROCEEH" project'. Granted by the Heidelberg Academy of Sciences.
- Geological and geomorphological survey and mapping, soil profile description, proximal sensing techniques application, geophysical assessment using geoelectric survey (ERT catena) and electromagnetic (EMP) in the Kwa-Zulu Natal Provinces (Tongaat River basin and Upper Mkhomazi basin).
- (May 2017) **Fieldwork in Wales**
- Collaboration with the British Geological Survey (BGS)-Natural Environmental Research Council(NERC), (Keyworth, UK).
- Data analysis and processes assessment with fieldwork in South Wales.
Supervisor: Dr. Luke Bateson and Dr. Alessandro Novellino.

PUBLICATIONS

Manuscript
(Accepted
and
published)

- Bosino A.**, Barbadori F., Confuorto P., Godone D., De Amicis M., Raspini F., Aliu S., Nardini O, Hafiz A., Pelacani S., Ferrari Trecate D., Maerker M., Cignetti M. (2026). Geomorphological mapping of the Becca d'Aver deep-seated gravitational slope deformation (Aosta Valley, Italy) based on multi-scale and multi-sensor analysis. *ESPL 51 (5) e70298*. DOI: 10.1002/esp.70298
- La Licata M., Odunayo D. A., Ellerbrock R. H., Bhattarai N., **Bosino A.**, Papke N., Schaller J., Maerker M. (2025). FTIR-derived soil degradation indices and stochastic modelling of organic matter-sediment dynamics in a Mediterranean watershed: A Northern Apennines case study. *PLoS one*, 20(8), e0330252.
- Franceschi L., **Bosino A.**, La Licata M., De Amicis M. (2025). Geomorphological mapping and social sciences: a qualitative review. *Geosciences 15*, 271.
- Szatten D., Łaszyca E.Z., **Bosino A.**, De Amicis M., Obodovskiy O. (2025). The impact of climate conditions on the sensitivity of long-term annual runoff in a cascade-dammed river: the Brda River case study (Poland). *Geosciences 15*, 197.
- Szatten D.A. & **Bosino A.** (2025). River channel stability assessment under flow alteration: the Brda River case study (Poland). *AUC Geographica 60(1)*, 1–17.
- La Licata M., **Bosino A.**, De Amicis M., Terret A., Maerker M. (2025). A GIS-based multiscale mapping framework to assess and visualize complex and polygenetic geomorphic systems – A novel 'Geomorphic Entities' approach. *Journal Of Maps 21(1)*, 2437256 - <https://doi.org/10.1080/17445647.2024.2437256>.
- La Licata M., **Bosino A.**, Sadeghi S.H., De Amicis M., Mandarino A., Terret A., Maerker M. (2025). HOTSSED: A new integrated model for assessing potential hotspots of sediment sources and related sediment dynamics at watershed scale. *International Soil and Water Conservation Research*, 13 (2025) 80-101 - <https://doi.org/10.1016/j.iswcr.2024.06.002>.
- Bousba H., Marmi R., Chabour N., La Licata M., De Amicis M., **Bosino A.** (2024). Assessment of geomorphological landforms and features in the Sebkhass region of the Boulhilet Plain, north-eastern Algeria. *GFDQ 47 (2)*, 349-364.
- Bosino A.**, La Licata M., Franceschi L., Hafiz A., Maggi V., Maerker M., Szatten D., De Amicis M. (2024). Multi-acronym geomorphological database: a methodological breakthrough in geomorphological mapping approach. *GFDQ 47 (1)*, 147-160.
- Hamidova E., Franceschi L., **Bosino A.**, Szatten D., De Amicis M. (2024). Urbanization and flooding dynamics: A case study of the Seveso River in Northern Italy. *GOSPODARKA WODNA 6-2024 (WORLD CANALS*

CONFERENCE 2024 BYDGOSZCZ):20-25.

11. Hamidova E., **Bosino A.**, Franceschi L., De Amicis M. (2024). Nature-Based Solution integration to enhance urban geomorphological mapping: a methodological approach. *Land* 2024, 13(4), 467
12. **Bosino A.**, Mandarinò A., De Amicis M., Cazzini F.F., Abu El Khair D., Flores P. (2024). Assessment of piping-sinkhole development in relation to fluvial-terrace scarp retreat: a multi-temporal analysis on the lower Ticino River (Italy). *Geomorphology* 450, 109082.
13. Ferrando A., **Bosino A.**, Bonino E., Coratza P., Faccini F. (2023). Geomorphology and geoheritage in the Piana Crixia Natural Park (NW Italy). *Journal of Maps*, 2023, VOL. 19, NO. 1, 2257731, doi.org/10.1080/17445647.2023.2257731
14. Szatten D.A., Brzezińska M., & **Bosino A.** (2023). New sediment continuum measurements in the Brda River (Poland): the results of the functioning of the 50-year Koronowo dam. *J Soils Sediments* (2023). <https://doi.org/10.1007/s11368-023-03582-z>
15. La Licata M., **Bosino A.**, Bettoni M., Maerker M. (2023). Assessing landscape features and geomorphic processes influencing sediment dynamics in a geomorphologically highly active Mediterranean agroecosystem: The upper Val d'Arda case study (Northern Apennines, Italy). *Geomorphology* 433, 108724.
16. Bettoni M., Maerker M., **Bosino A.**, Conedera M., Simoncelli L., Vogel S. (2023). Land use effects on surface runoff and soil erosion in a southern Alpine valley. *Geoderma* 435, 116505
17. Bettoni M., Maerker M., Sacchi R., **Bosino A.**, Conedera M., Simoncelli L., Vogel S. (2023). What makes soil landscape robust? Landscape sensitivity towards land use changes in a Swiss southern Alpine valley. *STOTEN*, 858-159779.
18. Bettoni M., Vogel S., **Bosino A.**, Schillaci C., Maerker M. (2022). Bibliometric analysis on soil and landscape stability, sensitivity and resistivity. *Land* 11(8), 1328.
19. Bufalini M., Omran A., **Bosino A.** (2022). Assessment of badlands erosion dynamics in the Adriatic side of central Italy. *Geosciences* 12, 208.
20. **Bosino A.**, Szatten D.A., Omran A., Crema S., Crozi M., Becker R., Bettoni M., Schillaci C., Maerker M. (2022). Assessment of suspended sediment dynamics in a small ungauged badland catchment in the Northern Apennines (Italy) using an in-situ laser diffraction methodology (Italy). *Catena*, 209, 105796.
21. Bernini A., **Bosino A.**, Botha A. G., Maerker M. (2021). Evaluation of Gully Erosion Susceptibility Using a Maximum Entropy Model in the Upper Mkhomazi River Basin in South Africa. *ISPRS Int. J. Geo-Inf.* 2021, 10, 729.
22. Schillaci C., Perego A., Valkama E., Maerker M., Saia S., Veronesi F., Lipani A., Lombardo L., Tadiello T., Gamper H. A., Tedone L., Moss C., Pareja-Serrano E., Amato G., Kühl K., Damatirca C., Cogato A., Mzid N., Eeswaran R., Rebelo M., Spreandino G., **Bosino A.**, Bufalini M., Tucay T., Ding J., Fiorentini M., Tiscornia G., Conradt S., Botta M., Acutis M (2021). New pedotransfer approaches to predict soil bulk density using WoSIS soil data and environmental covariates in Mediterranean agro- ecosystems. *Science of the Total Environment*, 780 (2021) 146609.
23. Bonacina G., Sanfilippo A., Zana S., **Bosino A.**, Previde Massara E., Viaggi P., Sabato L., Gallicchio S., Scotti P. (2021). Geochemical evidence for local variability in redox and depositional conditions in a deep-water Bonarelli equivalent section from southern Tethys (Fontana Valloneto section, southern Italy). *Oftioliti* 46(1), 43-62.
24. **Bosino A.**, Bernini A., Botha G. A., Bonacina G., Pellegrini L., Omran A., Hochschild V., Sommer C., & Maerker M. (2021). Geomorphology of the upper Mkhomazi River basin, KwaZulu-Natal, South Africa with emphasis on Late Pleistocene colluvial deposits. *Journal of Maps*, 17 (3), 5-16.
25. Cama M., Schillaci C., Kropáček J., Hochschild V., **Bosino A.** & Maerker M. (2020). A probabilistic assessment of soil erosion susceptibility in a head catchment of the Jemma Basin, Ethiopian Highlands. *Geosciences* 10(7), 248.
26. **Bosino A.**, Giordani P., Quénéhervé G., Maerker M. (2020). Assessment of calanchi and rill-interrill erosion susceptibilities using terrain analysis and geostochastics: A case study in the Oltrepo Pavese, Northern Apennines, Italy. *Earth Surface Processes and Landforms* 45, 3025- 3041.
27. Maerker M., **Bosino A.**, Scopesi C., Giordani P., Firpo M., Rellini I. (2020). Assessment of calanchi and rill-interrill erosion susceptibility in northern Liguria, Italy: A case study using a probabilistic modelling framework. *GEODERMA* 371, 114367.
28. Cazzini F. F., Amadori C., **Bosino A.**, Fantoni R. (2020). New seismic evidence of the Messinian paleomorphology beneath Lake Maggiore area (Italy). *Italian Journal of Geosciences*, 139, 2, 195-211.
29. Maerker M., Schillaci C., Melis R. T., Kropáček J., **Bosino A.**, Vilímek V., Hochschild V., Sommer C., Altamura F., Mussi M. (2019). Geomorphological processes, forms and features in the surroundings of the Melka Kunture Palaeolithic site, Ethiopia. *Journal of Maps* 2019, VOL. 15, NO. 2, 797–806.
30. **Bosino A.**, Omran A., Maerker M. (2019). Identification, characterisation and analysis of the Oltrepo Pavese calanchi in the Northern Apennines (Italy). *Geomorphology* 340, 53-66.
31. **Bosino A.**, Pellegrini L., Omran A., Bordoni M., Meisina C., & Maerker M. (2019). Litho-structure of the Oltrepo Pavese, Northern Apennines (Italy). *Journal of Maps* 15(2), 382–392.
32. Boni R., **Bosino A.**, Meisina C., Novellino A., Bateson L., McCormack H. (2018). A Methodology to Detect and Characterize Uplift Phenomena in Urban Areas Using Sentinel-1 Data. *Remote Sens.* 2018, 10, 607.
33. Franceschi L., **Bosino A.**, Cipolloni C., De Amicis M. (submitted). Methodological approach to harmonize geomorphological nomenclature through the ISPRA geodatabase: an example on Lombardy Region datasets, N-Italy. *GFDQ*
34. Podgórski Z., Brzezińska M., **Bosino A.**, Szatten Z. (submitted). Assessing the siting of war heritage: a new approach using digital terrain analysis and stochastic data exploration. *Anthropocene*
35. **Bosino A.**, Szatten D., La Licata M., De Amicis M., Riva S., Brzezińska M., Habel M. (in prep.). Geomorphological evidence above the basin of the demolished Wilkówka dam, Polish Western Carpathian Mountains. *Journal Of Maps*

36. Franceschi L., Rodríguez García A., De Amicis M., Mancebo M., Suárez Rodríguez, Á., **Bosino A.** (in prep). Comparative analysis of geomorphological mapping guidelines and databases: a study of Italy and Spain. *GFDQ*
37. SERVIZIO GEOLOGICO D'ITALIA (in prep.). Carta geomorfologica d'Italia alla scala 1:50.000. Foglio 302 Tolentino.
38. De Amicis M., Cavallin A., **Bosino A.** (in prep). Digitalizzare e georeferenziare la cartografia storica: prospettive di ricerca e di governo del territorio. In: *La "Gran Carta d'Italia" (1845) conservata all'Istituto Lombardo*. Franco Angeli Editore.

Extended
Abstract
(Published)

1. Franceschi L., **Bosino A.**, De Amicis M., Mancebo M., Robador A., Rodríguez García A. (2025). On the way to harmonisation: comparison of official geomorphological mapping legends of Spain and Italy. *XVII Reunión Nacional de Geomorfología 2025, Oviedo (Spain)*.
2. Franceschi L., **Bosino A.**, Hamidova E., De Amicis M. (2024). Dalla cartografia regionale al 'Quaderno 13' ISPRA: gestire l'innovazione attraverso i geodatabase. Il caso studio sulla cartografia geologica applicativa di Regione Lombardia. *XVIII Convegno Nazionale delle Sezioni "GIT - Geosciences and Information Technologies", 16-19 Giugno 2024 - Malnisio di Montereale Valcellina (PN)*.
3. Maerker M., **Bosino A.**, Lunini D., Cherici G. (2019). Quantitative Assessment of Hydrological Processes and Sediment Discharge in the Northern Apennines, Italy. V all-Russian scientific conference with international participation: "Models of manifestation of erosion and channel processes in various environmental conditions". *Moscow State University, Moscow, 3-6 September 2019*.
4. Maerker M., **Bosino A.**, Bernini A., Cüppers A., Hardenbicker U. (2019). Badland and gully erosion assessment using remotely sensed data, non-invasive field techniques and stochastic modelling approaches. *Global Symposium on soil EROSION | FAO Hq | Rome, Italy, 15-17 May 2019*.

Abstract in
congress
(Submitted
and
published)

1. **Bosino A.**, De Amicis M. (2026). Il paesaggio dipinto: dialogo tra arte e geomorfologia. *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
2. Franceschi L., Teloni R., Spalazzi A., Ferigato L., Pelliccioni E., **Bosino A.**, De Amicis M. (2026). Da paesaggio post-sismico a risorsa del patrimonio culturale: il caso del Cammino nelle Terre Mutate (Centro Italia). *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
3. Ferigato L., Ferrando A., Franceschi L., De Amicis M., **Bosino A.** (2026). Le cave di Montorfano (Mergozzo, VCO, Piemonte): come la ricerca d'archivio incontra l'analisi geomorfologica. *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
4. Riva S., **Bosino A.**, Brzezińska M., Szatten D. (2026). Metodo di analisi idrogeomorfologica per la mitigazione del rischio idrogeologico nelle aree interessate da dighe: il caso della diga di Borków (Polonia). *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
5. Lorusso I., Montagna G., Maggi V., **Bosino A.** (2026). Evidenze geomorfologiche nei dintorni di Gozzano (NO) - Lago d'Orta meridionale. *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
6. Frigerio S., Resentini A., **Bosino A.** (2026). Il 'Fiume Dirompio' e l'ipotesi di un paleo-Sesia: un approccio storico, petrografico e geomorfologico. *Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026*.
7. Ceppi A., Artoni C., **Bosino A.**, Cammalleri C., Castellani L., Corbari C., Davoli C., De Amicis M., Di Lierna S., Franceschi L., Lavecchia C., Mancini M., Pagnoni P., Pilati S., Ravazzani G., Rosato Rossi L. (2026). STEM Up Your Future!: Climate Change as a Gateway to STEM Education. *EGU 2026 Vienna 3-8 Maggio 2026*.
8. Ronchi M. & **Bosino A.** (2026). Geomorphological characterization of Val Toggia (VB) through field surveys and GIS analysis. *XI Giornata dei Giovani Geomorfologi AIGeo - Camerino, 26 febbraio 2026*.
9. Franceschi L., Bossi A., Szatten D., De Amicis M., Brzezińska M., Ferrari E., Garzognio R., Ferigato L., **Bosino A.** (2026). Geomorphological assessment of the Rio dell' Inferno catchment (Omegna) thirty years after the flood. *XI Giornata dei Giovani Geomorfologi AIGeo - Camerino, 26 febbraio 2026*.
10. Ferigato L., De Amicis M., **Bosino A.**, Franceschi L. (2026). Methodological proposal for identification of a multi-risk analysis technique to support strategic decisions for civil protection planning: preliminary results from Lombardy region datasets. *XI Giornata dei Giovani Geomorfologi AIGeo - Camerino, 26 febbraio 2026*.
11. Hamidova E., **Bosino A.**, Cihangir M.E., De Amicis M. (2025). Assessing flood risk in a rapidly urbanizing basin: a logistic regression approach for Istanbul (Türkiye). *AGU 2025, 15-19 December, New Orleans, Louisiana*.
12. Hamidova E., **Bosino A.**, De Amicis M. (2025). Urban geomorphological and hydrological transformation in Milan (Italy): flooding impacts and mitigation strategies along the Seveso River. *AGU 2025, 15-19 December, New Orleans, Louisiana*.
13. Franceschi L., Cignetti M., De Amicis M., La Licata M., Maerker M., Godone D., **Bosino A.** (2025). Debris flows in Varicoloured Clays? A real paradox from the northern Apennines. *VIII Convegno nazionale AIGeo, Firenze, 10 ottobre 2025*.
14. Flores P., Cazzini F.F., **Bosino A.** (2025). Suffusion and piping as key erosional elements in the lower Ticino River basin. *VIII Convegno nazionale AIGeo, Firenze, 10 ottobre 2025, (dedicated to Luisa Pellegrini)*.
15. La Licata M., Adeniti O.D., Ellerbrock R.H., Bhattarai N., **Bosino A.**, Papke N., Shaller J., Maerker M.

- (2025). An innovative interdisciplinary approach combining FTIR spectroscopy and machine learning to assess erosion susceptibility and soil organic matter dynamics in Mediterranean temperate watersheds. *WASWAC 2025, Rabat, Marocco-September 2025*.
16. Franceschi L., Rodríguez García A., Mancebo M., Robador A., De Amicis M., **Bosino A.** (2025). Comparison of guidelines and databases for the production of geomorphological maps with a social application: the cases of Italy and Spain. *IAG, Regional conference on Geomorphology, Timisoara, Romania, 16-18/9/2025*.
 17. Nardini O., Barbadori F., Confuorto P., **Bosino A.**, Godone D., De Amicis M., Hafiz H., Pelacani S., Ferrari Trecate D., Maerker M., Cignetti M., Raspini F. (2025). Integrating advanced remote sensing techniques and modelling for landslide and soil erosion risk assessment in Val d'Orcia (Tuscany), Italy. *IAG, Regional conference on Geomorphology, Timisoara, Romania, 16-18/9/2025*.
 18. **Bosino A.**, Barbadori F., Confuorto P., Godone D., De Amicis M., Raspini F., Aliu S., Nardini O., Hafiz A., Pelacani S., Ferrari Trecate D., Maerker M., Cignetti M. Assessment of pseudo-badlands forms and features through multi scale-multi sensor geomorphological approach in alpine context: the 'Becca d'Aver DsGSD' case study, Aosta Valley, (Italy). *IAG, Regional conference on Geomorphology, Timisoara, Romania, 16-18/9/2025*.
 19. **Bosino A.**, Colacicco R., Moreno de las Heras M., Bernatek-Jakiel A., Rodriguez Caballero E., Calvo-Cases A., Canton Castilla Y., Antic N., De Amicis M., Franceschi L., Gorum T., Hardenbicker U., Hukic E., Kasanin-Grubin M., La Licata M., Llena M., Maerker M., Mandarino A., Martinez-Murillo J.F., Marsico A., Mongil-Manso J., Olivier G., Petrovic V., Ailton de Sousa Silva I., Vergari F., Vericat D., Zgłobicki W., Zorn M., Avcioglu A. (2025). An integrated expert-based methodological framework to map badlands in different morpho-climatic contexts: preliminary results. *IAG, Regional conference on Geomorphology, Timisoara, Romania, 16-18/9/2025*.
 20. Bousba H., & **Bosino A.** (2025). The badlands of Hammam N'bail: an example of geomorphological heritage and a potential resource for geotourism in northern Algeria. *International Symposium on Advanced Technologies for the Valorization and Tourism Development of Cultural and Natural Heritage in Risk-Prone Territories – RSDT Constantine, 12-13 May 2025*.
 21. **Bosino A.**, Franceschi L., La Licata M., Brzezińska M., De Amicis M. (2024). Rivers and canals as art elements: Observing the paintings in a geomorphological perspective. In *World Canals Conference 2024. Challenges Between Ecology and Economic Use—Sustainable Revitalization of Canals Focusing on Nature*; Szatten, D., Brzezińska, M., Eds.; Wydawnictwo Uniwersytetu Kazimierza Wielkiego: Bydgoszcz, Poland, 2024; pp. 57–58.
 22. Hamidova E., Franceschi L., **Bosino A.**, Szatten D., De Amicis M. (2024). Urbanization and flooding events, a biunivocal relation? The Seveso River case study (N-Italy). In *World Canals Conference 2024. Challenges Between Ecology and Economic Use—Sustainable Revitalization of Canals Focusing on Nature*; Szatten, D., Brzezińska, M., Eds.; Wydawnictwo Uniwersytetu Kazimierza Wielkiego: Bydgoszcz, Poland, 2024; pp. 57–58.
 23. La Licata M., **Bosino A.**, Sadeghi S.H.R., Maerker M. (2024). Assessing hotspots of sediment sources and related sediment dynamics through the integration of geomorphological data, sediment connectivity and sediment transport modelling – The HOTSSED model. *EGU 14-19/4/2024 Vienna*.
 24. **Bosino A.**, Hamidova E., Maggi V., De Amicis M. (2023). Geomorphology at the service of the society. From field survey to geomorphological maps applications. *DISAT day - G. Martinotti Auditorium 26/9/2023*.
 25. Hamidova E., **Bosino A.**, De Amicis M. (2023). Modern Approach in Urban Geomorphology and Urban Geo Heritage Study A review. *IAG Regional Conference 12-14/9/2023, Turkiye*.
 26. La Licata M., **Bosino A.**, Maerker M. (2023). Evaluation of sediment dynamics in a mesoscale catchment of the Northern Apennines (Italy) characterized by intensive soil erosion and mass movement processes. *IUGG Berlin 11-20/6/2023, 28th General Assembly*.
 27. La Licata M., **Bosino A.**, Maerker M. (2023). Assessment of a geomorphologically highly active catchment in the Northern Apennines, Italy: linking sediment sources mapping with a morphometric connectivity approach. *International Conference on Fluvial Sedimentology. 2-7/7/2023 Riva del Garda*.
 28. Ferrando A., **Bosino A.**, Chiarlone M.P., Coratza P., Faccini F. (2022). Sustainable geoheritage and geosites in the Piana Crixia Natural Park (Liguria, Italy). *16th European Geoparks Conference – Verbania 26-30-9/2022*.
 29. Alessia Pica and the **AIGeo working group on Urban Geomorphology (2022)**. The urban geomorphological survey and mapping as a support to risk assessment and communication tools, through the enhancement of the geological heritage. *10th IAG International conference on Geomorphology, 12-16/9/2022 Coimbra*.
 30. Bufalini M., Ferrando A., Silvani F., **Bosino A.** (2022). Geomorphological remarks in the eastern part of Monte Primo, Central Apennines, Marche, (Italy). *91° Congresso della Società Geologica Italiana, p. 380. Torino, 19-21 settembre 2022*.
 31. La Licata M., Bettoni M., Bernini A., **Bosino A.**, Maerker M. (2022). Identification and characterization of landslide processes in a Mediterranean catchment: The Val d'Arda case study (Northern Apennines, Emilia-Romagna, Italy). *91° Congresso della Società Geologica Italiana, p534. Torino, Settembre 2022*.
 32. La Licata M., **Bosino A.**, Bettoni M., Maerker M. (2022). Identification and assessment of sediment sources and sediment transfer processes in a Mediterranean Agroecosystem in the Northern Apennines, Italy. *VII Convegno di geomorfologia, AIGEO 2022-4-8 ottobre, Palermo*.
 33. **Bosino A.**, Menegoni N., Ferrari E., Lupi C., Perotti C. (2022). Art and Drones: retracing the paths of Torquato Taramelli 100 years later. D-SITE Drones - Systems of Information on cultural heritage. *International Seminar meeting. 16-18 June 2022, Pavia*.

34. Simoncelli L., **Bosino A.**, Vilimek V., Kropáček J., Maerker M. (2022). Paleogeographic reconstruction of Segrino Lake area: Southern Alps, Northern Italy. *EGU 23-27/5/ 2022, Vienna*.
35. Bettoni M., **Bosino A.**, Vogel S., Bernini A., Adeniyi O.D., Maerker M. (2021). What makes a soillandscape robust? Land use changes in a southern Alpine valley (Ticino, Switzerland). *1° Congresso Nazionale dei Giovani Scienziati 7-10/10/2021 Napoli*.
36. Adeniyi O.D., Bettoni M., Bernini A., **Bosino A.**, Maerker M. (2021). Mapping soil properties in a lowland area of Lombardy region using terrain attributes and different predictive modelling approaches. *1° Congresso Nazionale dei Giovani Scienziati 7-10/10/2021 Napoli*.
37. Bernini A., Adeniyi O. D., **Bosino A.**, Bettoni M., Maerker M. (2021). Comparing different approaches to set up SWAT model in a flat intensively irrigated area. *1° Congresso Nazionale dei Giovani Scienziati 7-10/10/2021 Napoli*.
38. Fantoni R., **Bosino A.**, Cazzini F., & Toscani G. (2021). The Pedalpine Backthrust in the western sector of the Southern Alps. *90° Congresso della Società Geologica Italiana. Trieste, Settembre 2021*.
39. **Bosino A.**, Bettoni M., Omran A., Bernini A., Simoncelli L., Adeniyi O. D., Maerker M. (2021). Assessment of Badland area variations for two study sites in the Northern Apennines (Italy). *90° Congresso della Società Geologica Italiana. Trieste, Settembre 2021*.
40. Odunayo A., D., Bernini A., **Bosino A.**, Maerker M. (2021). Digital soil mapping in a lowland area: a case study of Lombardy irrigation area, Italy. *XXIV Dokuchaev Conference for Young Scientists "Soil Science in a Digital Society" 1-4 March, 2021 Saint-Petersburg, Russia*.
41. Simoncelli L., **Bosino A.**, Maerker M. (2020-postponed in 2022). Fluvio-geomorphological dynamics and hydrogeological risk assessment of the Lambro River: A case study of the Cologno Monzese section (Lombardy, Italy). *IAHS/ICCE International Symposium 'River sediment quality and quantity: environmental, geochemical and ecological perspectives'. Bydgoszcz, Poland on October 26-30, 2020*.
42. **Bosino A.**, Szatten D. A., Bettoni M., Maerker M. (2020-postponed). In situ measurements of suspended sediment dynamics using a LISST-25X: a case study in the Oltrero Pavese, Northern Apennines (Italy). *IAHS/ICCE International Symposium 'River sediment quality and quantity: environmental, geochemical and ecological perspectives'. Bydgoszcz, Poland on October 26-30, 2020*.
43. Acutis M., Perego A., Valkama E., Maerker M., Sacco D., Saia S., Veronesi F., Lipani A., Lombardo L., Amato G., **Bosino A.**, Cogato A., Conradt S., Damarica C., Gamper H., Kuhl K., Moss C., Pareja-Serrano E., Tedone L., Tiscornia G., Schillaci C. (2020). Pedotransfer function to predict soil bulk density in Mediterranean agroecosystems, a systematic map. *EGU General Assembly, 4-8 May 2020. <https://doi.org/10.5194/egusphere-egu2020-16930>*.
44. Bonasera M., Cerrone, C., Masseroli A., Prampolini M., and the **Italian Young Geomorphologists' Group** (2020). The Italian young geomorphologists' group: a dynamic reality within the Italian geomorphological community. *Journées des Jeunes Géomorphologues 2020, Paris*.
45. **Bosino A.**, Bernini A., Botha G., Omran A., Pellegrini L., Maerker M. (2019). Using web-based applications to enhance traditional geomorphic mapping: a case study of the Upper Mkhomazi River basin, KwaZulu-Natal, South Africa. *Congresso SIMP-SGI-SOGEI, Parma 16-19 September 2019 (p. 609)*.
46. **Bosino A.**, Bernini A., Maerker M. (2019). The role of colluvial deposits in gully formation: Example of the upper Mkhomazi basin, KwaZulu-Natal, South Africa. *VIII ITALIAN YOUNG GEOMORPHOLOGISTS' DAYS. "Sharing experiences on geomorphological research in different morphogenetic and morphoclimatic environments" Milan & Veny Valley, 26th-28th June 2019*.
47. Boni R., **Bosino A.**, Meisina C., Novellino A., Bateson L., McCormack H. (2019). Geological interpretation of ground deformation effects after the termination of engineering works using Sentinel-1 data: the London case of study (UK). *2019 Living Planet Symposium 13-17 May 2019, MiCo - Milano Congressi Milan, Italy*.
48. Boni R., **Bosino A.**, Meisina C., Novellino A., Bateson L., McCormack H. (2018). Monitoring and characterization of the ongoing ground displacement in London (UK) using Persistent Scatterer Interferometry (PSI) data acquired by Sentinel-1 satellites. *'6° Congresso Nazionale AIGA (Courmayeur, 27-29/06/2018)'*.

Books

1. Abstract Book: Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini. A cura di **Bosino A.**, Bollati I. (2026).
2. Ferrari E. & **Bosino A.** (2025). Fortitudo mea in brachio. Genealogia della famiglia Ferrari. 76 pp., (available on request).
3. **Bosino A.**, Bufalini M., Ferrando A. (2023). Geomorfologia di terreno delle forme Fluviali, Fluvio-Glaciali e dovute al Dilavamento. Atlante pratico per il rilevamento e la cartografia. *Dario Flaccovio Editore, Palermo, 2023. ISBN: 9788857915401*
4. **Bosino A.**, & Ferrari E. (2021). Nel sangue le Quattro Province. Genealogia della famiglia Bosino. 175 pp., (available on request).

Book chapters

1. De Amicis M., Cavallin A., **Bosino A.** (in prep). Digitalizzare e georeferenziare la cartografia storica: prospettive di ricerca e di governo del territorio. In: *"La Gran Carta d'Italia" presso L'istituto Lombardo di Scienze e Lettere. Franco Angeli Editore*.

Other contributions

-**2025:** For the PhD Day at University of Milano-Bicocca, poster presentation: Franceschi L., **Bosino A.**, De Amicis M. (2025). 'Geomorphological mapping beyond experts: aims, tools, and future directions'. *PhD day 2025*.

-**2022:** For the AIGEO 'GIS and Geomorphological Cartography' Working Group. Bollati I., De Amicis M., Leonelli G., Chelli A., Aucelli P.P.C., Bonasera M., Bondesan A., **Bosino A.**, Bufalini M., Fubelli G., Gionta A., Marsico A., Materazzi M., Pambianchi G., Pelfini M., Pellegrini L., Petriccione M., Piacentini T., Randazzo G., Scardino G., Tagliaferri A.,

Valente E. (2022). Metodi per la costruzione di una cartografia geomorfologica con QGIS e ArcGIS a confronto. Poster IV, GdL Cartografia Geomorfologica e GIS. *VII Convegno AIGeo, 4-8 ottobre 2022, Palermo.*

-**2022:** For the AIGEO ‘GIS and Geomorphological Cartography’ Working Group. Bollati I., **Bosino A.**, Chelli A., De Amicis M., Leonelli G., Pelfini M., Pellegrini L., Tagliaferri A. (2022). Sperimentazione della nuova legenda per la cartografia geomorfologica in ambiente GIS: esempi di applicazioni in diverse aree dell’Appennino Settentrionale. Poster III, GdL Cartografia Geomorfologica e GIS. *VII Convegno AIGeo, 4-8 ottobre 2022, Palermo.*

-**2021:** For the IAG ‘Badlands’ Working Group Newsletter. Page, December 2021.

RESEARCH GROUP INVOLVEMENT

(Past and current participation)

-STEM UP YOUR FUTURE (education of secondary schools). Fondazione Osservatorio Meteorologico Milano Duomo. (24h of lessons).

-Geosciences IR (PNRR Project): Harmonization of geomorphological data and geomorphological databases. Responsible for the guidelines for automatic compilation of the CARG database (Tolentino sheet).

-Assicurazioni Vittoria, cantiere 1 (UNIMIB Project): Creation of thematic maps related to geomorphological risk. Methodological creation for the cartographic management of the data provided.

-PRIN FORMATION: Geomorphological surveys and production of geomorphological maps. Responsible for the case study on the Val d’Arda and the creation of geomorphological maps.

-Belmont ABRESO Collaborative Project: Abandonment and rebound: Societal views on landscape- and land-use change and their impacts on water and soils: Field works regarding soil profiles, geomorphological landscape interpretation and field measurements with LISST.

-Life Drive Project: Field site instrument installation, soil profile realization. Grain size analysis in lab. and data collection for methodological development.

-ROCEEH International Project: Geomorphological survey in archeological area as well as in Drakensberg mountains (areas affected by severe soil erosion forms and features).

ACTIVITIES IN CONGRESS

Invited presentation speaker

-In ‘Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026’. Title ‘Il paesaggio dipinto: dialogo tra arte e geomorfologia’.

-In the 7th Badlands IAG workshop. Title ‘Expert based method to univocally map badlands in different climate contexts’. 27 November 2023.

-In the 3rd Badlands IAG workshop. Title ‘Assessment of Badlands erosion dynamics in the Northern Apennines, Italy’. 29 November 2021.

-In the 1st Badlands IAG working group meeting. Title ‘Inventory of Badlands sites’. 5 November 2021.

-Invited speaker for the “3rd Edition of Webinar on Geology & Climate Change”, 28-29/9/2021.

Speaker in congress (oral presentation)

- An integrated expert-based methodological framework to map badlands in different morpho-climatic contexts: preliminary results. IAG Timisoara 2025, International conference

-Rivers and canals as art elements: observing the paintings in a geomorphological perspective. World Canal Conference 2024-Bydgoszcz. International conference

-In situ measurements of suspended sediment dynamics using a LISST-25X: a case study in the Oltrepo Pavese, Northern Apennines (Italy). IAHS/ICCE International Symposium 'River sediment quality and quantity: environmental, geochemical and ecological perspectives'. Bydgoszcz 2022.

-Art and Drones: retracing the paths of Torquato Taramelli 100 years later. D-SITE Drones - Systems of Information on cultural Heritage. International Seminar meeting. 16-18 June 2022, Pavia.

-Assessment of Badland area variations for two study sites in the Northern Apennines (Italy). 90° Congresso della Società Geologica Italiana. Trieste, Settembre 2021.

-Using web-based applications to enhance traditional geomorphic mapping: a case study of the Upper Mkhomazi River basin, KwaZulu-Natal, South Africa. Congresso SIMP, SGI SOGEL, Parma 16-19 September 2019.

-PhD Congress 2019 - University of Pavia – oral presentation: "Detection of the Masotcheni Formation using Multispectral satellite data, terrain analysis and geostatistical modelling. KwaZulu-Natal, South Africa. (Preliminary Results)" Pavia, 7-8/3/2019.

-Monitoring and characterization of the ongoing ground displacement in London (UK) using Persistent Scatterer Interferometry (PSI) data acquired by Sentinel-1 satellites. ‘6° Congresso Nazionale AIGA (Courmayeur, 27-29/06/2018)’.

Poster presentation in congress

- Assessment of pseudo-badlands forms and features through multi scale-multi sensor geomorphological approach in alpine context: the ‘Becca d’Aver DsGSD’ case study, Aosta Valley, (Italy). IAG Timisoara 2025, International Conference.

- Fluvio-geomorphological dynamics and hydrogeological risk assessment of the Lambro River: A case study of the Cologno Monzese section (Lombardy, Italy). IAHS/ICCE International Symposium 'River sediment quality and quantity: environmental, geochemical and ecological perspectives'. Bydgoszcz 2022.
 - The Pedalpine Backthrust in the western sector of the Southern Alps. 90° Congresso della Società Geologica Italiana. Trieste, Settembre 2021.
 - The role of colluvial deposits in gully formation: Example of the upper Mkhomazi basin, KwaZulu-Natal, SouthAfrica. VIII ITALIAN YOUNG GEOMORPHOLOGISTS' DAYS. "Sharing experiences on geomorphological research in different morphogenetic and morphoclimatic environments" Milan & Veny Valley, 26th-28th June 2019.
 - PhD Congress 2018 - University of Pavia - poster presentation: "Characterization and spatial distribution of Northern Apennine Badlands: the Oltrepo Pavese case of study" Pavia, 10-11/5/2018.
- Convener and Co-Convener activity
- Llena M., Kasanin-Grubin M., **Bosino A.**, Tarolli P., Xiao P., Nadal Romero E. (2022). New challenges in measuring geomorphological dynamics and estimating erosion rates in badland areas. EGU 2022, Vienna 23-27/5/2022 (accepted session, SSS11.11).
- Session leads
- Session leader: World Canal Conference 2024 – Bydgoszcz: Water, Heritage and Tourism 1 panel, 25/6/2024.
- Scientific committee member
- 2025: Evaluator for the IAG grant applicants - Windsor Workshop 2025 (the BSG Post-Graduate Training Workshop).
 - 2024: Participation in the scientific committee (abstracts evaluation) in the World Canal Conference (WCC 2024), Bydgoszcz.

EDITORIAL ACTIVITIES

-**Reviewer for:** SN Applied Sciences; Geoderma; Earth Sciences Research Journal; Environmental Earth Sciences; Remote Sensing; Water; Agronomy; International Journal of Environmental Research and Public Health; Geocarto International; Geosciences; Artificial Intelligence in Geosciences; Natural Hazards; International Soil and Water Conservation Research; CATENA; Earth Surface Processes and Landforms; Geography and Tourism Journal; STOTEN; Atti della Società Toscana di Scienze Naturali; Springer Nature Scientific Report; Journal of Hydrology; Geografia Fisica e Dinamica Quaternaria; Journal of Maps; Cuadernos de Investigación Geográfica; Geoderma Regional.

-**Special Issue Guest Editor:** "Soil Erosion and Shallow Landslides: Prediction of the Phenomena and Measures of Sediments Delivery", *Geosciences*, 2023; "Advances in Sediment Connectivity and Sediment Dynamics Assessments for Mountain Geohazard Management", *Journal of Mountain Sciences*, 2025-present.

-**(2023-2026) International Editorial Board Member:** Hydrology, Hydrochemistry and Hydroecology. ISSN: 2306-5680

-12/5/2026. Organizing Committee - Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini. Pavia.

OTHER ACTIVITIES

Committee member (evaluator)

-22/4/2026: Membro di Commissione giudicante (supplente) per il conferimento di incarico di collaborazione MI 02-2026. CNR IGAG.

-27/11/2025: Membro di Commissione giudicatrice (componente verbalizzante) per il conferimento di un incarico di collaborazione nell'ambito del progetto dal titolo "individuazione di tecniche di analisi multirischio a supporto delle scelte strategiche in materia di pianificazione di protezione civile tramite analisi dati territoriali (GIS)" – UNIMIB COD. 25B120

-08/5/2025: Membro di commissione per il conferimento di un incarico di collaborazione nell'ambito del progetto dal titolo "Analisi statistica multivariata di record palinologici fossili e dati moderni per la ricerca dei migliori analoghi pollinici attuali. Analisi statistica multivariata per un confronto tra vegetazione, deposizione pollinica e clima attuali" – CNR COD. MI-02-2025

-09/01/2023: Membro di commissione per l'assegno di ricerca nell'ambito del progetto dal titolo 'Sistemi WebGIS per l'integrazione di dati geomorfologici ad alta risoluzione e rilievi sul campo' – UNIMIB COD. 23A250

-22/7/2022: Membro di commissione per l'incarico individuale di collaborazione nell'ambito del progetto dal titolo "Raccolta di dati in campo per la calibrazione di algoritmi per la stima di parametri forestali da immagini satellitari prisma"- UNIMIB – Bando 22CE264 / 22CE265

PhD committee member (scientific)

31/1/2026: Membro nella Commissione giudicatrice (componente verbalizzante) per il conferimento del titolo di dottore di ricerca del corso di Corso di dottorato in SCIENZE CHIMICHE, GEOLOGICHE E AMBIENTALI – curr. Scienze dell'Ambiente Terrestre e Marino - 38° CICLO – Agnese Redaelli. Titolo tesi: Climate change effects on groundwater budget at regional and basin scales. – UNIMIB

-8 May- 4June 2026: PhD committee member for the evaluation of the 42° cycle PhD candidates - Dottorato in Scienze Chimiche, Geologiche e Ambientali' UNIMIB. Curriculum Ambiente.

	-15 May-20 June 2025: PhD committee member for the evaluation of the 41° cycle PhD candidates - Dottorato in Scienze Chimiche, Geologiche e Ambientali' UNIMIB. Curriculum Ambiente.
	-18/5/2023: Membro nella Commissione giudicatrice per il conferimento del titolo di dottore di ricerca del corso di Dottorato di Ricerca in Scienze Umane ciclo 35, appello dottorando in proroga - Davide Margaritora. Titolo tesi: elaborazioni geografiche paleoambientali in Europa durante l'ultimo periodo glaciale attraverso l'utilizzo di strumenti GIS. – UNIFE
Internal Commission	Member of the Commission “Metodologie didattiche”, Internal commission of Scienze e Tecnologie per l'Ambiente, at Department of Earth and Environmental Sciences, UNIMIB
Internal elections	-14/11/2024: Member of the commission for the internal election 'Elezioni della Giunta'.
Membership and association	-Italian Geological Society (SGI), Italian Association of Physical Geography and Geomorphology (AIGeo), International Association of Geomorphologists (IAG); International Society for Geomorphometry.
Award of winning article	-Co-author of the publication entitled 'Da paesaggio post-sismico a risorsa del patrimonio culturale: il caso del Cammino nelle Terre Mutate (Centro Italia).' nominated as best poster in the Giornata di studio in ricordo della Prof.ssa Luisa Pellegrini, Pavia 12/5/2026. Corresponding author, and awarded, Laura Franceschi. -Co-author of the publication entitled 'HOTSSED: A New Integrated Model for Assessing Potential Hotspots of Sediment Sources and Related Sediment Dynamics at Watershed Scale' nominated in the WASWAC Youth Outstanding Paper Award (DATUM) 2024. Corresponding author, and awarded, Manuel La Licata.
Other academic activities	-16/1/2025: Scientific support to "La “Gran Carta d’Italia” (1845) conservata all'Istituto Lombardo Accademia di Scienze e Lettere Produzione e distribuzione, restauro e fruizione" - Partecipazioni attive a incontri pubblici organizzati da altri soggetti. Istituto Lombardo (Milan). -2021: Scientific contributor of the exposition: “Terra nascosta”: Rocce, vulcani e terremoti, dalle scoperte di Taramelli alla Geologia moderna. Preparation of the exhibition at the Kosmos Museum in Pavia. 5 March 12 June 2022. -2020: Support to the organization and conduct of events / promotional, communication, dissemination, and guidance activities. “Terra nascosta”: Rocce, vulcani e terremoti, dalle scoperte di Taramelli alla Geologia moderna. Preparation of the exhibition at the Kosmos Museum in Pavia. 5 March 12 June 2022.
Collaboration in companies	-From 2022 to December 2024: Research assistant, GEOSCAPE SOC. COOP. Dept. of Earth, Environment and Life, University of Genoa – Corso Europa, 26 – 16132 Genoa (GE), Italy. Collaboration within the RTDA-PON Program.

PERSONAL COMPETENCE

Mother language	Italian
Other	English
Personal skills	GIS, cartography and Geophysics -Geological and geomorphological survey. ArcMap, QGIS and SAGA. Proficient user of electro magnetometer (EMP 400); Geoelectric tools i.e., ERT catena, Field spectrometer. Soil analysis (laboratory and field) -Soil color and physical analysis (Munsell); Ph; Suspended sediment analysis with LISST instrument; Grain size analysis in the field and in laboratory following the ASTM; Bulk density, aggregate stability, Ksat measurements (Amuzzimeter).
Computer skills	Proficient user with ArcGIS, QGIS, SAGA-GIS, Corel Draw (Inkscape), MaxEnt, Principles of R, Google Earth, Office suite and Internet.
Soft skills	Scientific analysis and negotiation.
Drive license	B for the car.
Personal data	In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.