

SIMONE STERLACCHINI

Curriculum Vitae

Cover Letter

Since December 2001 I have been a permanent PhD researcher employed at the Institute of Environmental Geology and Geoengineering (ex-Institute of the Dynamics of Environmental Processes) of the National Research Council of Italy, headquartered in Milan; I gained the **National Qualification of Associate Professor** in 2013.

My multi-disciplinary research activities mainly concern on Natural Risk Assessment and Management, designed and implemented by means of different environmental data modeling techniques, GIS strategies and ICT-based methods and solutions. The nature of my degree and PhD courses in Engineering Geology and Geomorphology has prepared me for this type of research.

In more detail, the CNR-IGAG **LARGE** Laboratory (Laboratorio di Analisi dei Rischi e di Gestione delle Emergenze), that I set up and maintained over the years, enabled me to increase my research interests as well as the research team. **LARGE** is an "open environment" where scientists (among them, many young researchers) from different disciplines (from Economics to Social Sciences, from Informatics to Engineering, from Natural to Earth Sciences) may work together, discuss, design and implement conceptual models and solutions. Since 2006 the research team has also been benefitting from the expertise gained in many industrial research projects from the Small-Medium Enterprises involved. This has enriched my scientific background in terms of skills and ability to work closely with different types of researchers and stakeholders. In effect, since my first recruitment in CNR (in 1998, as non-permanent researcher), I have constantly put in practice fundraising activities (by projects and agreements) to sustain my research interests and the research team as well. This involved a great deal of multi-disciplinary research, requiring initiative, self-motivation and a wide range of skills in Natural and Anthropogenic Risk Assessment and Management topics. EU, national and regional funded projects supported the research team financially and allowed research findings to be achieved and disseminated in many national and international congresses, journals and books (**20.219 downloads, 728 citations and 936 readers**, as stated by Elsevier Mendeley.com). At the present, about 200 scientific papers, reports, maps and technical documents have been proposed to the scientific community. Among the others, 25 have been published in international ISI journals. Bibliometric indices witness a good quality and quantity of scientific production and dissemination:

- **h-index=16** (Scopus) with 1.083 citations.
- **h-index=19** (ResearchGate) with 1.671 citations, an RG Score=26.48 higher than 82.5% of ResearchGate members'.
- **h-index=21 - i10-index=35** (Google Scholar) with 1.907 citations.

The latest research findings represent a great achievement in my scientific career: **SIRENE** - A Spatial Data Infrastructure to enhance Communities' Resilience to disaster-related emergency and **BLINKS** - an Open source GIS-based tool for economic loss estimation due to flood events; **MAP...PERO'** - a mobile app to collect, query, and analyzes Geographic Information voluntarily provided by observers directly in the field to identify potentially critical environmental conditions. These are strategic multi-disciplinary tools to plan in advance preparedness and response to natural disaster-related emergency. Nowadays, it is noteworthy that the beta versions of SIRENE and BLINKS are being released to tens of municipalities in Umbria, Sardinia and Lombardy region (among them, the municipality of Milan) which have been affected by natural disasters over the past years (landslides, debris flows, floods and wildfire) and experienced significant social and economic losses. Working closely with stakeholders proved to be a key-action that allows decision makers to prevent, monitor and mitigate unexpected disaster-related impacts and potential damage. An Operative Agreement has been signed with the **Italian Red Cross** concerning preparedness and response activities. This Agreement allowed **LARGE** to be designated as a **Competence Center for Emergency Planning and Decision Support** for the Italian Red Cross. **LARGE** supported the Italian Red Cross during the **Covid-19 emergency** by applying the ICT-based tools and solutions mentioned above and implementing new ones.

My scientific background and interests allowed me to lead several projects since the very beginning of my research career in CNR, acting as: work-package (co)leader in EU funded projects (since 2002 to 2014: ALARM, MOUNTAIN RISKS, CHANGES projects); project leader (CARIPLO Foundation project) and scientific (co)responsible in projects of national (CARG project, GENERALI Foundation project, ANIA project) and regional (SISTEMA, SISTEMATI, CARE-G, SPACE4AGRI, SIMULATOR, PROTEZIONE CIVILE 2.0; SIMULATOR-ADS, among the others) relevance. Moreover, I acted as scientific responsible of many institutional agreements between the CNR-IGAG and national and regional government entities (Umbria region; Sardinia region; the Mountain Consortium of Valtellina di Tirano, Northern Italy; Municipality of Milan).

Beyond my research activity, I had an extensive teaching experience in a variety of courses in national and international academic and scientific environments concerning the use of Geographic Information Systems, Decision Support Systems and data modeling techniques for natural hazard and risk assessment and management topics. Since 1994, I served first as assistant lecturer and then as lecturer in Geographical Information Systems BSc and MSc courses at the University of Milan. In every class, I strived to include a blend of theoretical, lab work and discussion activities in order to actively engage students in teaching actions. In 2013 I gained the **National Qualification of Associate Professor**.

As noted above, knowledge sharing and dissemination have played an important role in my research activity in order to provide different types of stakeholders (students, researchers, decision makers) with inputs to their problem solving activities, also considering people not accustomed to managing GIS techniques and ICT-based solutions in their daily tasks.

I also acted as scientific Committee Member of National and International Conferences and Workshops, Member of the EGU (European Geosciences Union) and CERG (Centre Européen sur les Risques Géomorphologiques - European Centre on Geomorphological Hazards) as well as reviewer for scientific awards (1), national and EU projects (4) and national and international journals (24). Moreover, in the period 2006-2014, I acted as Secretary of the Geosciences and Information Technologies (G.I.T.) Group, the Geo-Informatics Division of the Italian Geological Society; in 2015-2016 as Coordination Group member and, since 2017, I have been acting as Coordinator of the G.I.T. The main aim is to promote the dissemination of the young (MSc and PhD) researchers' research by organizing the annual conference, workshops and thematic courses.

Please, find enclosed my curriculum vitae containing more information.

Sincerely,



PERSONAL INFORMATION

<i>First name / Surname</i>	SIMONE STERLACCHINI
<i>Nationality</i>	ITALIAN
<i>Gender</i>	Male

EDUCATION AND TRAINING

<i>Dates</i>	16 October 1997
<i>Name and type of organization providing education and training</i>	University of Ferrara Earth Sciences Dept. - Corso Ercole I D'Este, 32 44121 Ferrara, Italy. In collaboration with: University of Milano - Earth Sciences Dept. - via Mangiagalli 34, 20133 Milano, Italy
<i>Principal subjects/occupational skills covered</i>	Ph.D. in: Geomorphology and Engineering Geology. "Sistemi Informativi Geografici per la Valutazione della Pericolosità da Frana". "Geographical Information Systems for Landslide Hazard Assessment".
<i>Title of qualification</i>	Post-graduate Academic Degree

<i>Data</i>	02 July 1992
<i>Name and type of organization providing education and training</i>	University of Milano Earth Sciences Dept. - via Mangiagalli 34, 20133 Milano, Italy
<i>Principal subjects/occupational skills covered</i>	Master degree in: Engineering Geology. "L'assetto dei versanti delle valli Scuropasso e Ghiaccia di Montalto (Pv) in relazione alle caratteristiche geologico-tecniche delle unità affioranti. Ricerca dei parametri di resistenza mediante prove di laboratorio".
<i>Title of qualification</i>	MSc. 110/110 cum Laude

<i>Dates</i>	1996-ongoing
<i>Name and type of organization providing education and training</i>	National and International Universities and Research Institutes
<i>Principal subjects/occupational skills covered</i>	<p>Intensive courses and workshops in:</p> <ul style="list-style-type: none"> - "Floods and Landslides. Integrated Risk Assessment" (19-26 May, 1996). Organized by: European Commission - DG XII - General Directorate for Science, Research and Development, Climatology and Natural Hazards Unit. In cooperation with: ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development). - "I Sistemi Informativi Geografici per la Pianificazione e la Gestione del Territorio" (28-30 October, 1997). Organized by: CILEA - Interuniversity Consortium for High Performance Computing. - "Sistema Informativo Territoriale: S.I.T." (17 December, 1997). Organized by: Lombardy Region - Regional Information System Service. - "Introduzione ad ArcView GIS 3.0" (6-9 July, 1998). Organized by: DELTACAD s.r.l. In collaboration with: Lombardy Region - Geological Survey Office. - "La Progettazione dei Sistemi Informativi Territoriali" (29 September-1 October, 1998). Organized by: CILEA - Interuniversity Consortium for High Performance Computing. - "Cartografia Numerica, Immagini Raster e Fotogrammetria Digitale per i S.I.T." (18-20 November, 1998). Organized by: CILEA - Interuniversity Consortium for High Performance Computing. - "Perimetrazione delle aree inondabili con il codice di calcolo FRESCURE" (22-25 February, 1999). Organized by: Hydraulic Engineering Dept., University of Pavia, Italy. - "Spatial data analysis and multi-criteria decision analysis for environmental impact assessment" (31 May-12 June, 1999). Organized by: University of Cantabria, within EU project: "Geomorphology and Environmental Impact Assessment of Transportation Systems (GETS)", European Commission DGXII. - "A Case Study in Environmental Impact Assessment (EIA) using GIS Modeling and Decision Support Systems (DSS)" (27-29 June, 2000). Organized by: University of Milano-Bicocca, Environmental and Territorial Sciences Dept., within EU project: "Geomorphology and Environmental Impact Assessment of Transportation Systems (GETS)", European Commission DGXII. - "Landslide Hazard, Hazard Consequences, Vulnerability and Risk" within the EU project: "ALARM - Assessment of Landslide Risk Mitigation in Mountain Areas", in Amsterdam (The Netherlands, 22-24 May 2002), Corvara (Italy, 13-15 June 2002), Milano (Italy, 27-28 September 2002), Lisbon

	<p>(Portugal, 24-26 October 2002), Krakow (Poland, 02-04 May 2003), Laredo (Spain, 26-28 September 2003), Barcelonnette (France, 10-13 June 2004).</p> <p>- "Landslide Quantitative Risk Assessment, Management and Governance" within the EU project: "Mountain Risks: from prediction to management and governance" (2007-2010), in Paris (France, 19-21 January 2007), Ventor (Isle of Wight, UK, 24-25 My 2007), Dortmund (German, 24-27 September 2007), Lausanne (Switzerland, 26-30 November 2007), Kempten (German, 15-22 June 2008), Barcelona (Spain, 01-05 September 2008), Enschede - Utrecht (The Netherlands, 18-20 March 2009), Vienna (Austria, 20-24 April 2009), Les Diablerets (France, 21-27 June 2009), Padova (Italy, 11-14 November 2009), Barcelonnette (France, 19-25 June 2010) and Florence (Italy, 24-26 November 2010).</p> <p>- "Hydro-meteorological Risks" within the EU project: "CHANGES: Changing - as Analyzed by a New Generation of European Scientists" (2011-2014), in Enschede (The Netherlands, 13-14 January 2011), Vienna (Austria, 06 April, 2011), Bucarest (Romania, 18-21 July, 2011), Krakow (Poland, 18-23 September, 2011), Enschede (The Netherlands, 16-20 January 2012), Padova (Italy, 27-30 April 2012), Salzburg (Austria, 02-06 July 2012), Bazau (Romania, 11-15 September 2012), Dortmund (Germany, 27-29 November 2012), Barcelonnette (France, 22-29 June 2013); Perugia (Italy, 16-20 September 2013), Les Diablerets (Switzerland, 07-11 April 2014), Padova (Italy, 18-19 November 2014).</p> <p>- "Management e Valorizzazione della Ricerca". Organized by: Italian National Council of Italy - Promotion and Collaboration Development, CNR-PSC (Genova, Italy, 13-17 June 2011).</p> <p>- "DrHouse Project". Organized by EUCENTRE - European Centre for Training and Research in Earthquake Engineering" in Alessandria (Italy, 16-18 April 2013) and funded by EC "Preparatory Action on an EU rapis Response Capability". Workshops and Civil Protection operational activities.</p>
• Title of qualification	Certificates of Attendance

WORK EXPERIENCE	
• Dates	20 December 2001-ongoing
• Name and address of employer	CNR-IGAG (ex IDPA, until June 2019) National Research Council of Italy - Institute of Environmental Geology and Geoengineering, Piazza della Scienza, 1 - 20126 - Milano
• Type of business or sector	Research Institute
• Occupation or position held	Senior researcher. Permanent position
• Main institutional activities and responsibilities	<p>CNR-IDPA</p> <p>- Since 2017. Scientific responsible of the Laboratory of Risk Analysis and Emergency Management (Laboratorio di Analisi dei Rischi e Gestione delle Emergenze - LARGE) of the CNR-IGAG, Milan.</p> <p>- Since 2014. Institutional assignment: CNR-IDPA Representative in the Internal Commission to draw up the Operating Agreement between the Department of Earth and Environmental Sciences of the University of Milano-Bicocca and CNR-IDPA, Milan.</p> <p>- November 2011-2013. Scientific responsible of the CNR-IDPA sub-project: "Multi-risk scenarios assessment for preparedness and response in Civil Protection" - "La definizione degli scenari multi-rischio a supporto della gestione delle emergenze" (TA.P05.021).</p> <p>- Since 2008. Scientific responsible of the CNR-IDPA modules: "Progetto SIMULATOR-Accordo Regione Lombardia (DTA.AD003.165); Gestione dei rischi e delle emergenze (DTA.AD003.169); CARG-Realizzazione della cartografia geologica (DTA.AD004.055); SIMULATOR-ADS: Sistema Integrato ModULAre per la gestIone e prevenziOne dei Rischi-Arricchito con Dati Satellitari (DTA.AD004.144); Progettazione del Sistema di Supporto alle Decisioni e delle procedure per la gestione delle fasi di emergenza (DTA.AD004.144); Progetto Generali - La valutazione economica dei disastri naturali in Italia (DTA.AD003.169).</p> <p>EU funded Projects</p> <p>- 2011-2014. Work Package co-leader of the EU project: "CHANGES - Changing Hydro-meteorological Risks as Analyzed by a New Generation of European Scientists". Programme "PEOPLE" - Call ID "FP7-PEOPLE-2010-ITN" 263953 - CHANGES, Marie Curie Initial Training Networks (ITN). WP 4: Adapting risk management strategies to future changes.</p> <p>- 2007-2010. Work Package co-leader of the EU project: "Mountain-Risks: from prediction to management and governance". Human Resources and Mobility (HRM) Activity - Marie Curie Actions. Marie Curie Research Training Networks (RTN). WP2: Consequence of hazard, vulnerability analysis and quantitative risk assessment.</p> <p>- 2002-2004. Work Package co-leader of the EU project: "ALARM - Assessment of Landslide Risk and Mitigation in Mountain Areas". V Framework Programme (RTD) - European Commission. WP5: Risk Analysis.</p>

International funded Projects

- 2012-2013. **Scientific responsible** for CNR-IDPA of the project: "Multi-sensor technologies for EWS of landslides and man-made structures", funded by Council of Europe within its strategic programme "Assessment of events and population alert". In collaboration with: Dr. Jean-Philippe Malet (CNRS, IPGS, France), Dr. T.A. Bogaard (TUD, Netherlands) and Prof. T. Chelidze (GGHD, Tbilisi, Georgia).

- 2012-2015. **Research staff member** of the project: "Pan-European and nation-wide landslide susceptibility assessment", funded by Council of Europe within its strategic programme "Mapping natural hazards and risks". In collaboration with: Dr. Jean-Philippe Malet (CNRS, IPGS, France), Dr. A. Guenther (BGR, Germany), Dr. J.L. Zêzère (IGOT, Portugal), Dr. P. Reichenbach (CNR-IRPI, Italy), Dr. J. Hervàs (JRC, Italy), Prof. J. Corominas (UPC, Spain), Prof. T. Chelidze (GGHD, Tbilisi, Georgia), Dr. M. Micu (IGRAC, Romania) and Mrs. M. Bernaerts (ISPU, Belgium).

- 2010-2013. **Scientific responsible** for CNR-IDPA of the project: "Emergency Planning for Hydrogeological Risks in the Ubaye Valley (Alpes-de-Haute-Provence, France)", funded by the Prefecture of Department Alpes-de-Haute-Provence (France) and the DREAL of Région Provence-Alpes-Côte d'Azur (Direction Régionale de l'Environnement, de l'Aménagement et du Logement) for the years 2010-2013. In collaboration with: Dr. Jean-Philippe Malet (CNRS, IPGS, France), Dr. Simone Frigerio (CNR, IRPI, Italy), Mr. G. Guiter and Mr. C. Bosshardt (ONF-RTM, France) and Dr. G. Bonati (GloboGIS srl, Italy).

National funded Projects

- 2017-2019. **Project leader** of the project: "STRESS: Strategies, Tools and new data for REsilient Smart Societies". Research project financed by CARIPLO Foundation within its " Research dedicated to hydrogeological instability: a contribution to the prevision, prevention and risk mitigation" program. In collaboration with three research institutes (CNR-IRPI; CNR-IREA and Università Cattolica Milano).

- 2016-2018. **Scientific responsible** for CNR-IDPA of the project: "SIMULATOR-ADS: Sistema Integrato ModULAre per la gesTione e prevenziOne dei Rischi - Arricchito con Dati Satellitari". Industrial research and development project financed by Lombardy region. In collaboration with a research institute and four Italian ICT small-medium enterprises.

- 2015. **Scientific responsible** for CNR-IDPA of the project: "PROTEZIONE CIVILE 2.0". Financed by Lombardy region for the creation and development of Smart Communities within the regional platform "Open Innovation". In collaboration with three research institutes and 2 Italian ICT small-medium enterprises.

- 2014-2015. **Scientific co-responsible** for CNR-IDPA of the project: "SIMULATOR: Sistema Integrato ModULAre per la gesTione e prevenziOne dei Rischi". Industrial research and development project financed by Lombardy region. In collaboration with two research institutes and eight Italian ICT small-medium enterprises.

- 2013-2017. **Scientific responsible** for CNR-IDPA of the project: "La valutazione economica dei disastri naturali in Italia". In collaboration with: CNR-CERIS, CNR-IRPI, INGV, SEEDS. Financed by Fondazione Assicurazioni Generali.

- 2013-2015. **Scientific co-responsible** of the project: "CARE-G: Una piattaforma di servizi per la cura della salute e la qualità della vita del cittadino anziano" financed within the agreement between Lombardy region and the National research Council of Italy. In collaboration with: CNR-IBFM, CNR-IFC, CNR-ITB, CNR-IREA.

- 2013-2015. **Scientific co-responsible** of the project: "SPACE4AGRI: Sviluppo di metodologie aerospaziali innovative di osservazione della Terra a supporto del settore agricolo in Lombardia" within the agreement between Lombardy region and the National research Council of Italy. In collaboration with: CNR-IREA, CNR-ITIA.

- 2013-2014. **Scientific responsible** for CNR-IDPA of the project: "SISTEMATI-Strumenti Informatici per lo Studio e il Trattamento di Emergenze Ambientali, Tecnologiche e Infrastrutturali". Industrial research and development project financed by Lombardy region. In collaboration with: University of Milano-Bicocca and Italian small-medium enterprises: Meteo Operations Italia s.r.l., Informatica Ambientale s.r.l., Arianet s.r.l.

- 2009-2010. **Scientific responsible** for CNR-IDPA of the project: "SISTEMA-Strumenti Informatici per lo Studio e il Trattamento di Emergenze Ambientali". Industrial research and development project financed by Lombardy region. In collaboration with: University of Milano-Bicocca and Italian small-medium enterprises: Meteo Operations Italia s.r.l., Informatica Ambientale s.r.l., Arianet s.r.l.

- 2009-2010. **Research staff member** of the project: "Piano di Protezione Civile Comunale". In collaboration with: University of Milano-Bicocca.

- 2008-2009. **Research staff member** of the project: "Predisposizione della banca dati e delle procedure finalizzate alla realizzazione dei piani di Protezione Civile dei comuni dell'Isola Bergamasca (Italy). In collaboration with: University of Milano-Bicocca and GloboGIS s.r.l.
 - 2006. **Scientific responsible** for the research activities concerning the design, coding and testing of the GIS, DSS and ICT modules composing PETER software, developed for supporting disaster preparedness and response activities in the field of Civil Protection, on behalf of GloboGIS s.r.l.
 - 2004-2006. **Research staff member** of the project: "Progetto Kyoto: ricerca sui cambiamenti climatici e il controllo dei gas serra in Lombardia. Relazioni tra rischio atteso e dissesto conseguente ai recenti andamenti climatici. Linea di Ricerca Climatologia - Unità Operativa 5". Data collection, digital acquisition, data storage and management; application of statistic-probabilistic modeling techniques for landslide susceptibility assessment in Northern Apennines.
 - 2002-2010. **Scientific responsible** for the research activities concerning four specific agreements with the Consortium of Mountain Municipalities of Valtellina di Tirano on "Disaster preparedness and response activities to hydrogeological and wildfire risks by the use of Geographical Information Systems, Decision Support Systems and Information and Communication Technology. Dissemination, educational and training activities towards people involved in Civil Protection".
 - 2002-2004. **Research staff member** of the project: "Evoluzione geomorfologica dei versanti e cambiamenti climatici: analisi di fenomeni franosi e ricostruzioni paleoclimatiche". MURST 2002.
 - 2002-2004. **Research staff member** of the project: "Ricostruzione 3D del bacino di alimentazione di una importante sorgente carsica captata dalla rete acquedottistica (Sorgente Nossana in Val Seriana-BG)". Agreement between Lombardy region and CNR-IDPA.
 - 2002-ongoing. **Scientific responsible** for the database design and cartographic representation activities and for the technical support to local geological working units within the Italian National Project "CARG: Nuova Carta Geologica d'Italia alla scala 1:50.000". In collaboration with: Geological Survey of Italy.
 - 1999-2002. **Research staff member** of the project: "I movimenti franosi come indicatori di variazioni climatiche dal tardiglaciale a oggi". MURST 1999.
 - 1999-2001. **Research staff member** of the project: "Strumenti di gestione integrata del territorio". Financed by Regione Lombardia - Hydrogeological Risks Dept.
 - 1996-1997. **Research staff member** of the project: "Valutazione della stabilità dei versanti in condizioni statiche e dinamiche nella zona campione dell'Oltrepò Pavese". Financed by Regione Lombardia - Geological Service Dept.
 - 1995-1997. **Research staff member** of the project: "Difesa del suolo e gestione delle acque sotterranee". MURST 1999.
- National Frameworks, Protocols and Operational Agreements**
- Since November 2018. **Scientific responsible** of the Operational Agreement between the LARGE Lab of CNR-IDPA and Italian Red Cross for scientific and technical supporting activities in disaster-related emergency preparedness and response.
 - Since September 2018. **Scientific responsible** of the Operational Agreement between the LARGE Lab of CNR-IDPA and the Union of Municipalities of Frignano (Emilia Romagna Region) for scientific and technical supporting activities in Civil Protection preparedness and response.
 - Since July 2018. **Scientific responsible** of the Operational Agreement between the LARGE Lab of CNR-IDPA and the Polytechnic of Milano (Lombardy Region) for the designing and implementation of an open-source Information System for hydraulic risk analysis.
 - Since February 2018. **Scientific responsible** of the Protocol Agreement between the LARGE Lab of CNR-IDPA and the Municipality of Milan (Lombardy Region) for scientific and technical supporting activities in Civil Protection preparedness and response. **Scientific advisor** in case of activation of the Municipal Operating Center.
 - 2017-2021. **Scientific responsible** of the Operational Agreement between the CNR-IDPA and the CNR-IREA (Institute for Electromagnetic Sensing of Environment) for the integration of multisource data (from in-situ measurements, remote sensing, smart apps, etc.) in Decision Support Systems for risk assessment and emergency management purposes.
 - 2017-2020. **Scientific responsible** of the Operational Agreement between the LARGE Lab of CNR-IDPA and the Free Academy of the Fine Arts (Libera Accademia delle Belle Arti, Brescia, Lombardy Region) for the designing and implementation of Graphic Users Interfaces for Civil Protection preparedness and response tools and apps.

	<p>- 2016-2019. Scientific responsible of the Operational Agreement between the CNR-IDPA and Civil Protection Service of Sardinia Region - General Directorate of Civil Protection - for scientific collaboration, technical support and research activities in hydrogeological risk assessment (Olbia flood event 2013).</p> <p>- 2015-2020. Scientific responsible of the Framework Agreement between the CNR-IDPA and Civil Protection Service of Umbria Region for scientific collaboration, technical support, research, learning and teaching activities in Civil Protection preparedness and response.</p> <p>- 2011-2015. Scientific responsible of the Protocol Agreement between the CNR-IDPA and Associazione Centro Studi Città di Foligno (University of Perugia, Umbria region, Perugia province and Foligno municipality) for scientific collaboration, technical support, research, learning and teaching activities in the field of Civil Protection.</p>
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• Dates	1998-2001
• Name and address of employer	CNR-IDPA National Research Council of Italy - Institute for the Dynamics of Environmental Processes, Piazza della Scienza, 1 - 20126 - Milano
• Type of business or sector	Research Institute
• Occupation or position held	Young researcher. Non-permanent position
• Main activities and responsibilities	<p>- 1999-2001. Research staff member of the Italian Regional project: "Strumenti di gestione integrata del territorio e dell'ambiente. Definizione delle zone a rischio idrogeologico alla scala di bacino idrografico". In collaboration with: University of Milano-Bicocca, Institute for Hydrogeological Protection (CNR-IRPI) and Institute of Electronics, Computer and Telecommunication Engineering (ex CNR-CSITE). Data collection, digital acquisition, data storage, management and statistic-probabilistic modeling. Financed by Lombardy region, Hydrogeological Risk Office.</p> <p>- 1998-2001. Research staff member within the Italian National Project: "CARG: Nuova Carta Geologica d'Italia alla scala 1:50.000". In collaboration with: Geological Survey of Italy.</p>

• Dates	1997-1998
• Name and address of employer	Lombardy Region Public Works and House Building Assessorship. Department of Civil Protection, Via Fabio Filzi, 22 - 20124 - Milano
• Type of business or sector	Administrative Government Entity
• Occupation or position held	Regional Officer. Non-permanent position
• Main activities and responsibilities	Scientific responsible for environmental and territorial data collection, digital acquisition, storage and analysis by GIS methods and techniques according to the Regional Laws issued after the hydrogeological events occurred in Valtellina (Italy) in July 1987.

• Dates	1996-1997
• Name and address of employer	University of Milano Mathematical, Physical and Natural Sciences Dept. - via Mangiagalli 34, 20133 Milano, Italy
• Type of business or sector	University
• Occupation or position held	Grant holder. Non-permanent position
• Main activities and responsibilities	Scientific Staff Member within the Italian Regional project: "Valutazione della stabilità dei versanti in condizioni statiche e dinamiche nella zona campione dell'Oltrepo Pavese". In collaboration with: Institute for Research on Seismic Risk of Milano (CNR-IRRS) and Lombardy region-Department of Environmental Protection, Geological Survey and Water Protection. Data collection, digital acquisition, storage, management and analysis.

ACADEMIC TEACHING EXPERIENCE	
• Date	Since 2013
• Name and address of employer	MIUR - Ministero dell'Istruzione, dell'Università e della Ricerca MIUR - Italian Ministry of Education, Universities and Research Rome, Italy
• Type of business or sector	Education, Universities and Research
• Occupation or position held	National Qualification of Associated Professor
• Main activities and responsibilities	- Teaching - Education

• Date	March 2018, February-March 2019, January 2020
• Name and address of employer	Upper Secondary Schools

	Morbegno (So), Sondrio (So), Tirano (So), Monza (Mi), Chiavenna (So), Italy
• <i>Type of business or sector</i>	Education, Universities and Research
• <i>Occupation or position held</i>	Lecturer in: "Introduction to hydrogeological risks" and "Introduction to Geographic Information Systems (GIS)" promoted within "Work-School Alternation" projects.
• <i>Main activities and responsibilities</i>	- Introduction to hydrogeological risks: terms, theoretical concepts and case studies; - Introduction to using GIS: theoretical concepts on GIS tools and techniques; - GIS lab exercises.

• <i>Date</i>	June 2017
• <i>Name and address of employer</i>	Water Resources Research and Documentation Center - Università per Stranieri di Perugia Piazza Fortebraccio 4, 06123 Perugia, Italy
• <i>Type of business or sector</i>	National Scientific Organization
• <i>Occupation or position held</i>	Invited Lecturer in: "Modelli predittivi distribuiti per la definizione della pericolosità e del rischio: come comunicare i prodotti della ricerca" within the #WaterManifesto Conference "Nuove frontiere per la ricerca, la sostenibilità ambientale e la comunicazione nel settore dell'acqua" (Sala Polifunzionale - Presidenza del Consiglio dei Ministri) 06 giugno 2017, Roma..
• <i>Main activities and responsibilities</i>	- Distributed models for hazard and risk assessment; - Decision Support Systems; - Information sharing.

• <i>Date</i>	June 2013
• <i>Name and address of employer</i>	European Centre on Geomorphological Hazards (CERG) Rue de l'Argonne 3, Strasbourg, France
• <i>Type of business or sector</i>	International Scientific Organization
• <i>Occupation or position held</i>	Invited Lecturer in: "Decision Support Systems in Risk Management: from theory to practice" within the FORMOSE-CHANGES intensive course "Protecting Mountain Societies from Natural Hazards: Plans or Dams" (Council of Europe - EUR-OPA Major Hazards Agreement - European Centre on Geomorphological Hazards (CERG)).
• <i>Main activities and responsibilities</i>	- Decision Support Systems theory - Practical applications of DSS concerning different hydro-geomorphological hazards - Implementation of a DSS for emergency and disaster planning in relation with the stakeholders in charge of the early-warning system of La Valette landslide.

• <i>Date</i>	October 2012
• <i>Name and address of employer</i>	Federal Institute for Geosciences and Natural Resources Wilhelmstrasse 25-30, Berlin, Germany
• <i>Type of business or sector</i>	Research Institute
• <i>Occupation or position held</i>	Invited Lecturer in: "Spatial agreement of predicted patterns in landslide susceptibility maps" in collaboration with JRC - European Commission, Joint Research Centre, Institute for Environment and Sustainability, Climate Risk Management Unit, within the project "Pan-European and nationwide landslide susceptibility assessment" (Council of Europe - EUR-OPA Major Hazards Agreement - European Centre on Geomorphological Hazards (CERG)).
• <i>Main activities and responsibilities</i>	- Statistic tools for interclass agreement among landslide susceptibility maps; - Fuzzy Set principles and tools for spatial agreement among different predicted patterns.

• <i>Date</i>	October 2012, October 2013, April 2017
• <i>Name and address of employer</i>	University of Modena and Reggio Emilia Mathematical, Physical and Natural Sciences Dept. - Largo S. Eufemia 19, 41100 Modena, Italy
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Lecturer in: "Gestione in tempo reale delle fasi di emergenza a seguito di disastri naturali". Master course in: "Cooperazione Internazionale - Progettazione e gestione degli interventi, disabilità, emergenze".
• <i>Main activities and responsibilities</i>	Teaching in: - Legislative framework and preparedness and response activities in the field of Civil Protection - GIS, Decision Support Systems and Information and Communication Technology based-tools for crisis preparedness and management.

• <i>Date</i>	May 2012
• <i>Name and address of employer</i>	United Nations Development Programme (UNDP) within the Regional Risk Reduction Initiative (R3i) project
• <i>Type of business or sector</i>	International Organization
• <i>Occupation or position held</i>	Invited Lecturer in: "Vulnerability curves analysis towards economic risk assessment"

• <i>Main activities and responsibilities</i>	- Developing Capacities in GIS, Hazard Management and Vulnerability Assessment for improving resilience; - Sharing Knowledge and Results towards Improved Risk Resilience.
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• <i>Date</i>	2007-2009-2011
• <i>Name and address of employer</i>	University of Milano Mathematical, Physical and Natural Sciences Dept. - via Mangiagalli 34, 20133 Milano, Italy
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Lecturer in: "Sistemi Informativi Territoriali per l'acquisizione, l'analisi e la rappresentazione di dati geologici" for PhD students at Geological Sciences Dept.
• <i>Main activities and responsibilities</i>	Teaching and training in: - Basic and advanced GIS; - Geoprocessing techniques; - Digital mapping methods and techniques for environmental data acquisition

• <i>Date</i>	2007-2014
• <i>Name and address of employer</i>	European Commission EU funded Project
• <i>Type of business or sector</i>	University and Research Institutes
• <i>Occupation or position held</i>	Lecturer in PhD courses and workshops within Mountain Risks and Changes EU funded projects.
• <i>Main activities and responsibilities</i>	Teaching and training in: - tools and methods for hazard, vulnerability and risk assessment; - risk management concerning emergency preparedness, response and rescue activities; - Geographical Information Systems, Decision Support Systems and Information and Communication Technology based-tools for emergency preparedness and response.

• <i>Date</i>	2003-2004-2005
• <i>Name and address of employer</i>	University of Catania Geological Sciences Dept. - Corso Italia, 55, 95129 - Catania, Italy
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Lecturer in: "Ricostruzioni 3D dei corpi geologici: principi ed applicazioni"; "La valutazione della pericolosità connessa a movimenti gravitativi di versante: metodologie ed esempi di applicazioni"; "Dalle banche dati alle ricostruzioni 3D dei corpi geologici: principi ed applicazioni" for PhD students at Geological Sciences Dept.
• <i>Main activities and responsibilities</i>	Teaching and training in: - GIS tools and techniques

• <i>Date</i>	2002-2004-2005
• <i>Name and address of employer</i>	University of Milano-Bicocca Environmental and Territorial Sciences Dept. - Piazza della Scienza 1, 20126 Milano, Italy
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Lecturer in: "GIS tools and techniques for environmental resources assessment, management and protection". Master corse: "VARIS - Valutazione della Sostenibilità Ambientale delle Risorse Idriche Sotterranee " and "VAST - Valutazione e Gestione dell'Ambiente e del Territorio attraverso l'uso di Sistemi Informativi Territoriali".
• <i>Main activities and responsibilities</i>	Teaching and training in: - GIS tools and techniques

• <i>Date</i>	November 2002
• <i>Name and address of employer</i>	CNRS (Centre National de la Recherche Scientifique), CRPG (Centre de Recherches Pétrographiques et Géochimique) and ENSG (Ecole Nationale Supérieure de Géologie) Rue Notre Dame des Pauvres15, 54500 Vandœuvre les Nancy, France
• <i>Type of business or sector</i>	Research Institute
• <i>Occupation or position held</i>	Lecturer in: "Introduction to Geographic Information Systems with application to Geosciences and Structural Geology".
• <i>Main activities and responsibilities</i>	Teaching and training in: - basic and advanced GIS tools and techniques

• <i>Dates</i>	2002 - 2020 (for 18 years)
• <i>Name and address of employer</i>	University of Milano Mathematical, Physical and Natural Sciences Dept. - via Celoria 2, 20133 Milano, Italy
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Lecturer in: "Sistemi Informativi Territoriali" for BSc and MSc degree at Natural and Geological Sciences Dept.
• <i>Main activities and responsibilities</i>	Teaching and training in: - Basic and advanced GIS; - Geoprocessing techniques; - Digital mapping methods and techniques for environmental data acquisition (2006-2010) during natural and geological field mapping survey.

• <i>Date</i>	1994-1997
• <i>Name and address of employer</i>	University of Milano Mathematical, Physical and Natural Sciences Dept.
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Assistant Lecturer in: "Rilevamento geologico" and "Rilevamento geologico-tecnico" courses for BSc and MSc at Geological Sciences Dept.
• <i>Main activities and responsibilities</i>	Teaching in: - geological mapping and cartography (scale, coordinates, cartographic and geological mapping techniques, use of different kinds of cartographic and geological material, aerial photographs and satellite images).

• <i>Date</i>	Since 1997
• <i>Name and address of employer</i>	University of Milano Mathematical, Physical and Natural Sciences Dept. - Natural and Geological Sciences Depts. University of Milano-Bicocca Environmental and Territorial Sciences Dept.
• <i>Type of business or sector</i>	University
• <i>Occupation or position held</i>	Students Advisory
• <i>Main activities and responsibilities</i>	Supervisor and co-supervisor of students' academic activities: BSc and MSc, PhD and Post-Doc thesis.

NON-ACADEMIC TEACHING EXPERIENCE

• <i>Date</i>	September 2019
• <i>Name and address of employer</i>	Italian Red Cross Roma, Italy
• <i>Type of business or sector</i>	Volunteer Organization
• <i>Occupation or position held</i>	Lecturer in: "Introduction to Geographic Information Systems (GIS)" and "Introduction to Citizen Science: use of KoBoToolbox" promoted within the Operational Agreement between the LARGE Lab of CNR-IDPA and the Italian Red Cross for scientific and technical supporting activities in disaster-related emergency preparedness and response.
• <i>Main activities and responsibilities</i>	- Introduction to using GIS and KoBoToolbox: theoretical concepts on GIS tools and techniques; - GIS and KoBoToolbox lab exercises.

• <i>Date</i>	April-May 2013
• <i>Name and address of employer</i>	Turbigo Municipality (Mi) City Planning Office - via Roma 39, Turbigo, Italy
• <i>Type of business or sector</i>	Administrative Government Entity
• <i>Occupation or position held</i>	Lecturer in seminars and training course dealing with Geographic Information Systems.
• <i>Main activities and responsibilities</i>	Teaching and training to seminar participants (technicians and spatial planners of the municipality)

• <i>Date</i>	June 2009
• <i>Name and address of employer</i>	Marche Region Consortium of Mountain Municipalities of Catria and Nerone. Civil Protection Office - Via L. Alessandri 19, Cagli, Italy
• <i>Type of business or sector</i>	Administrative Government Entity
• <i>Occupation or position held</i>	Lecturer in: "Rischio Sismico e Idrogeologico: formazione, informazione, prevenzione" within the IV

	National GIT (Geology & Information Technology) Congress, 15-17 June 2009, Cagli, Italy. In collaboration with: Italian Institute of Geophysics and Volcanology (INGV).
• <i>Main activities and responsibilities</i>	Teaching and training to seminar participants (Civil Protection Staff Members and Volunteers)

• <i>Date</i>	2007-2016
• <i>Name and address of employer</i>	Italian Municipalities
• <i>Type of business or sector</i>	Administrative Government Entities
• <i>Occupation or position held</i>	Lecturer and trainer in Civil Protection seminars and workshops concerning territorial planning and emergency preparedness and response by the use of Information and Communication Technology based-tools (GIS, Decision Support Systems).
• <i>Main activities and responsibilities</i>	Teaching and training to seminar and workshops participants (Local Civil Protection Staff Members and Volunteers)

• <i>Date</i>	June 2007
• <i>Name and address of employer</i>	Umbria Region Centro Studi Città di Foligno - Via G. Oberdan 123, Foligno, Italy
• <i>Type of business or sector</i>	University and Administrative Government Entity
• <i>Occupation or position held</i>	Lecturer in: "Applicazioni GIS e tecnologie mobili per la Protezione Civile" and "Webmapping e pubblicazione di dati geografici" within the II National GIT (Geology & Information Technology) Congress, 04-06 June 2007, Bevagna, Italy. In collaboration with: GloboGIS s.r.l. (Business Partner of ESRI Italia).
• <i>Main activities and responsibilities</i>	Teaching and training to seminar participants

• <i>Date</i>	June 2006; February 2008; February 2009; April 2010; February 2011; June 2012
• <i>Name and address of employer</i>	Lombardy Region Consortium of Mountain Municipalities of Valtellina di Tirano - Via M. Quadrio 11, Tirano, Italy
• <i>Type of business or sector</i>	Administrative Government Entity
• <i>Occupation or position held</i>	Lecturer in seminars and training courses dealing with risk assessment and management; real-time management of crisis phases: from preparedness to response activities in the field of Civil Protection.
• <i>Main activities and responsibilities</i>	Teaching and training to seminar participants (Civil Protection Staff Members and Volunteers)

• <i>Date</i>	November 1999; November-December 2000
• <i>Name and address of employer</i>	Geological Survey of Italy Via Curtatone 3, 00185 Roma
• <i>Type of business or sector</i>	Administrative Government Entity
• <i>Occupation or position held</i>	Lecturer in: "Introduzione ai Sistemi Informativi Territoriali per l'informatizzazione della Nuova Carta Geologica d'Italia alla scala 1:50.000". In collaboration with: International Institute for Aerospace Survey and Earth Sciences (ITC), Enschede, The Netherlands and University of Milano-Bicocca, Environmental and Territorial Sciences Dept., Milano, Italy.
• <i>Main activities and responsibilities</i>	Teaching in: - basic and advanced GIS tools and techniques

PERSONAL SKILLS AND COMPETENCES					
• <i>Mother tongue</i>	ITALIAN				
• <i>Other language</i>	ENGLISH				
• <i>Self-assessment</i>	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
	B2	C1	B2	B2	B2

<ul style="list-style-type: none"> • <i>Technical skills and competences</i> 	<ul style="list-style-type: none"> • Operating Systems: Windows 95[®], 98[®], 2000[®], XP[®], NT[®], Vista[®], 7[®], and UNIX[®]; • Microsoft Office[®] (Excel[®], Word[®], Power Point[®] ed Access[®]); • CAD Systems: Autocad[®] e Microstation[®]; • GIS software: ArcINFO[®], ArcGIS[®], ArcView[®], ArcPad[®], I/Scan[®], I/Vec[®], I/RASB[®], MGE[®], ILWIS[®], MapInfo[®], Terranova[®]; • Database Management Systems: Access[®]; • 3D software: GOCAD[®]; • Civil Protection Software: PETer[®]; SIRENE (designed and implemented by CNR-LARGE Laboratory).
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<ul style="list-style-type: none"> • <i>Affiliations</i> 	<ul style="list-style-type: none"> - Since June 2017. Coordinator of "Geosciences and Information Technologies (G.I.T.) Group", Geo-Informatics Division of the Italian Geological Society. - Since June 2017. Committee Member of the Italian Geological Society Board of Directors. - 2015-2016. Coordination Group Member of Geosciences and Information Technologies (G.I.T.) Group, Informatics Division of the Italian Geological Society. - November 2014. Scientific Committee Member within the International Conference "Analysis and Management of Changing Risks for Natural Hazards". 18-19 November 2014, Padua, Italy. - October 2012. Scientific Committee Member within the IAG/AIG International Workshop "Objective Geomorphological Representation Models: Breaking through a New Geomorphological Mapping Frontier", 15-19 October 2012, University of Salerno, Italy. - 2011-2014. Steering Committee Member within the EU project: "CHANGES: Changing Hydro-meteorological Risks as Analyzed by a New Generation of European Scientists". Call FP7-PEOPLE-2010-ITN 263953-CHANGES Marie Curie Initial Training Networks (ITN). - November 2010. Scientific Committee Member within the International Congress "Mountain Risks: Bringing Science to Society", 24-26 November 2010, Florence, Italy. - 2007-2010. Steering Committee Member within the EU project: "Mountain-Risks: from prediction to management and governance". Human Resources and Mobility (HRM) Activity - Marie Curie Actions. Marie Curie Research Training Networks (RTN). - Since 2007. European Geosciences Union Member (EGU), ID n. 96958. - 2006-2014. Secretary of Geosciences and Information Technologies (ex Geology and Information Technology - G.I.T.) Group, Geo-Informatics Division of the Italian Geological Society. - Since 2003. C.E.R.G. Member - Centre Européen sur les Risques Géomorphologiques (European Centre on Geomorphological Hazards).
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<ul style="list-style-type: none"> • <i>Commissions Attendance</i> 	<ul style="list-style-type: none"> - Since 2002. Member of national Committees for Academic exams, BSc, MSc, PhD and Post-Doc dissertations and public competitions. - Since 2007. Member of EU Committees for PhD and Post-Doc dissertations.
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<p>• <i>Scientific Journal Reviewer and Editorial Board Member</i></p>	<p>JOURNALS</p> <ul style="list-style-type: none"> - Acta Geodynamica et Geomaterialia - Applied Geography - Applied Geomatics - Bulletin of Engineering Geology and the Environment - Catena - Coastal Engineering - Computers & Geosciences - Coastal Engineering - Current Trends in Forest Research - Data Mining and Knowledge Discovery - Earth Surface Processes and Landforms - Environmental Earth Sciences - Entropy - Environmental Impact Assessment - Environmental Modelling & Software - Environmental Monitoring and Assessment - Geological Magazine - Geomorphology - Geosciences - Hydrogeology Journal - International Journal of Digital Earth - International Journal of Disaster Risk Science - International Journal of Geographical Information Science - International Journal of Geo-Information - Italian Journal of Geosciences - Italian Journal of Groundwater - Journal of Earth Science & Climatic Change - Journal of Engineering, Science and Technology - Journal of Environmental Management - Journal of Environmental Informatics - Journal of Geography, Environment and Earth Science International - Journal of Hydrology - Journal of Structure and Infrastructure Engineering - Journal of Mountain Science - Land Degradation & Development - Landslides - Marine Geology - Natural Hazards - Natural Hazards and Earth System Sciences - Open Civil Engineering Journal - Regional Environmental Change - Remote Sensing - Rendiconti della Società Geologica Italiana - Science of the Total Environment - SpringerPlus - Transactions in GIS - Water <p>Editorial Board Member (since April 2013)</p> <ul style="list-style-type: none"> - Acta Geodynamica et Geomaterialia
<p>• <i>National and EU Project Reviewer</i></p>	<p>2014. A*MIDEX project - Initiative d'excellence Aix-Marseille, Aix-Marseille Université - France. 2015. ANR - Agence Nationale de la Recherche - France. 2016. SHEAR - Science for Humanitarian Emergencies and Resilience programme of Natural Environment Research Council (NERC) of the UK. 2016. UNITECH - Divisione Servizi per la Ricerca dell'Università Statale di Milano.</p>
<p>• <i>Thesis Reviewer of Scientific Awards</i></p>	<p>2015. Hans Bobek-Preis - Issued by the Austrian Geographical Society. Candidate: Christoph Aubrecht.</p>

<ul style="list-style-type: none"> • <i>Editor</i> 	<p>2017. Co-editor (with Cavalli M., Frigerio S., Trevisani S.) of the Proceedings of the 11th Meeting of the Geosciences and Information Technologies (G.I.T.) Group (Torino, Italy). Rendiconti Online della Società Geologica Italiana, vol. 42, 2017.</p> <p>2016. Co-editor (with D'Ambrogi C., Reichenbach P., Trevisani S.) of the Proceedings of the 10th Meeting of the Geosciences and Information Technologies (G.I.T.) Group (San Leo, Italy). Rendiconti Online della Società Geologica Italiana, vol. 39, 2016.</p> <p>2015. Co-editor (with D'Ambrogi C., Reichenbach P.) of the Proceedings of the 9th Meeting of the Geosciences and Information Technologies (G.I.T.) Group (Montefalco, Italy). Rendiconti Online della Società Geologica Italiana, vol. 34, 2015.</p> <p>2014. Co-editor (with D'Ambrogi C., Marchesini I., Reichenbach P.) of the Proceedings of the 8th Meeting of the Geology and Information Technology (G.I.T.) Group (Chiavenna, Italy). Rendiconti Online della Società Geologica Italiana, vol. 30, 2014.</p> <p>2013. Co-editor (with van Asch T.W.J., Corominas J., Greiving S., Malet J.P.) of the book: "Mountain Risks: from prediction to Management and Governance". In: "Advances in Natural and Technological Hazards Research", Springer, XV, 340. ISBN: 978-94-007-6768-3.</p> <p>2007. Co-editor (with De Donatis M.) of the Proceedings of the 1st Meeting of the Geology and Information Technology (G.I.T.) group (San Leo, Italy). Rendiconti della Società Geologica Italiana, 4, 17, Nuova Serie.</p>
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<ul style="list-style-type: none"> • <i>Conference Organizer and Convener</i> 	<p>2018. Organizer of the Workshop: "Volunteered Geographic Information: Enabling VGI creation, management and sharing". 16 April 2018, Institute for Electromagnetic Sensing of the Environment of the National research Council of Italy, Milan, Italy.</p> <p>2006-2018. Organizer of the yearly National Conference: "Geosciences and Information Technologies (G.I.T.)" (Geo-Informatics Division of the Italian Geological Society) in collaboration with universities, research institutes, public bodies and private companies.</p> <p>2014. Organizer of the Workshop: "Collaboration between ICT and Geosciences for Natural Risks and related-emergencies management". 25 September 2014, Polytechnic of Milan, Milan, Italy.</p> <p>2015. Organizer of the Workshop: "Collaboration between ICT and Geosciences for Natural Risks and related-emergencies management and citizens involvement". 4 February 2015, Polytechnic of Milan, Milan, Italy.</p> <p>2002-2014. Organizer of conferences, topic workshops, intensive courses, field trips and stakeholders meetings within national and EU-funded projects (Alarm, Mountain Risks, Changes).</p> <p>2005-ongoing. Convener in National and International Conference.</p>
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CONSULTING ACTIVITY	
<ul style="list-style-type: none"> • <i>Date</i> 	2013-2018
<ul style="list-style-type: none"> • <i>Name and address of employer</i> 	Turbigo Municipality (Mi) City Planning Office - via Roma 39, Turbigo, Italy
<ul style="list-style-type: none"> • <i>Type of business or sector</i> 	Administrative Government Entity
<ul style="list-style-type: none"> • <i>Occupation or position held</i> 	Scientific Consultant in drawing up the disaster preparedness and response plan. GIS Consultant in Spatial Planning (PGT).
<ul style="list-style-type: none"> • <i>Main activities and responsibilities</i> 	Scientific support in the field of Civil Protection to draw up the Municipal Civil Protection Plan by workflow-based software. GIS support to draw up the Municipal Spatial Planning maps by applying different GIS-based geoprocessing tools and techniques.

<ul style="list-style-type: none"> • <i>Date</i> 	March 2014-April 2014
<ul style="list-style-type: none"> • <i>Name and address of employer</i> 	GloboGIS s.r.l. Viale Europa, 17, 24048-Treviolo (Bg)
<ul style="list-style-type: none"> • <i>Type of business or sector</i> 	GIS Private Company
<ul style="list-style-type: none"> • <i>Occupation or position held</i> 	Scientific Consultant of the project: "Redazione dei piani di emergenza dell'Unione Comunale dei Colli (Bg)".
<ul style="list-style-type: none"> • <i>Main activities and responsibilities</i> 	Teaching and training of end-users in using GIS and DSS-based tools for preparedness and response activities in the field of Civil Protection.

• Date	April 2013-June 2013
• Name and address of employer	Università degli Studi di Pavia - Dipartimento di Scienze della Terra e dell'Ambiente via A. Ferrata 1 - 27100 Pavia.
• Type of business or sector	University
• Occupation or position held	Scientific Consultant of the project: "Redazione dei piani di emergenza comunali della Comunità Montana del Sebino Bresciano".
• Main activities and responsibilities	Risk scenarios definition for different types of prospective damaging events (landslides, flooding, wildfire and industrial/chemical accidents) and workflow design and development concerning preparedness and response activities in the field of Civil Protection by using Geographical Information Systems and Decision Support Systems.

• Date	September 2011-January 2012
• Name and address of employer	GESP S.r.l. Viale L. Scarampo 47, 20148-Milano.
• Type of business or sector	GIS Private Company
• Occupation or position held	Scientific Consultant of the project: "Provision of Services to Caribbean OCTs. Lot1: GIS and Vulnerability Assessment", Programme R3I (Regional Risk Reduction Initiative)" funded by UNDP (United Nations Development Programme) and EU (European Union).
• Main activities and responsibilities	Teaching and training in Structural Vulnerability (phase IV-b), Loss Estimation (phase IV-c) and Operational Vulnerability (phase IV-d) assessment concerning hurricane, storm surge and earthquake hazards. Scientific and technical support to Disaster Management Offices of the 8 islands involved into the project (Aruba, Curacao, Bonarie, Saba, St.Eustatius, Cayman Islands, Montserrat, Turks & Caicos Islands).

SCIENTIFIC DISSEMINATION	
	<p>Papers in International ISI Journals</p> <ol style="list-style-type: none"> Thiery Y., Malet J.P., Sterlacchini S., Puissant A., Maquaire O. (2007) - "Landslide susceptibility assessment by bivariate methods at large scales: application to a complex mountainous environment". <i>Geomorphology</i>, 92, 1-2, 38-59. DOI: 10.1016/j.geomorph.2007.02.020. ISSN 0169-555X. SJR: Q1. I.F.: 2.813. Sterlacchini S., Frigerio S., Giacomelli P., Brambilla M. (2007) - "Landslide risk analysis: a multi-disciplinary methodological approach". <i>Nat. Hazards and Earth Syst. Sci.</i>, 7, 657-675. ISSN 1561-8633. SJR: Q1. I.F.: 2.277. Masetti M., Poli S., Sterlacchini S., Beretta G.P., Facchi A. (2008) - "Spatial and statistical assessment of factors influencing nitrate contamination in groundwater". <i>Journal of Environmental Management</i>, 86, 1, 272-281. DOI: 10.1016/j.jenvman.2006.12.023. ISSN 0301-4797. SJR: Q1. I.F.: 3.131. Masetti M., Sterlacchini S., Ballabio C., Sorichetta A., Poli S. (2009) - "Influence of threshold value in the use of statistical methods for groundwater vulnerability assessment". <i>Science of the Total Environment</i>, 407, 12, 3836-3846. DOI:10.1016/j.scitotenv.2009.01.055. ISSN 0048-9697. SJR: Q1. I.F.: 3.976. Zanchi A., Salvi F., Zanchetta S., Sterlacchini S., Guerra G. (2009) - "3D reconstruction of complex geological bodies: Examples from the Alps". <i>Computers & Geosciences</i>, 48,199-210. DOI: 10.1016/j.cageo.2007.09.003. ISSN 0098-3004. SJR: Q1. I.F.: 2.474. Blahut J., van Westen C.J., Sterlacchini S. (2010) - "Analysis of landslide inventories for accurate prediction of debris-flow source areas". <i>Geomorphology</i>, 119, 1-2, 36-51. DOI: 10.1016/j.geomorph.2010.02.017. ISSN 0169-555X. SJR: Q1. I.F.: 2.813. Blahut J., Horton P., Sterlacchini S., Jaboyedoff M. (2010) - "Debris flow hazard modelling on medium scale: Valtellina di Tirano, Italy". <i>Nat. Hazards and Earth Syst. Sci.</i>, 10, 11, 2379-2390. DOI: 10.5194/nhess-10-2379-2010. ISSN 1561-8633. SJR: Q1. I.F.: 2.277. Sterlacchini S., Ballabio C., Blahut J., Masetti M., Sorichetta A. (2011) - "Spatial agreement of predicted patterns in landslide susceptibility maps". <i>Geomorphology</i>, 125, 1, 51-61. DOI: 10.1016/j.geomorph.2010.09.004. ISSN 0169-555X. SJR: Q1. I.F.: 2.813. Sorichetta A., Masetti M., Ballabio C., Beretta G.P., Sterlacchini S. (2011) - "Reliability of groundwater vulnerability maps obtained through statistical methods". <i>Journal of Environmental Management</i>, 92, 1215-1224. DOI: 10.1016/j.jenvman.2010.12.009. ISSN: 0301-4797. SJR: Q1. I.F.: 3.131.

10. Quan Luna B., Blahut J., van Westen C.J., Sterlacchini S., van Asch T.W.J., Akbas S.O. (2011) - "The application of numerical debris flow modelling for the generation of physical vulnerability curves". *Nat. Hazards Earth Syst. Sci.*, 11, 7, 2047-2060. DOI: 10.5194/nhess-11-2047-011. ISSN 1561-8633. **SJR: Q1. I.F.: 2.277.**
11. Cavallin A., Sterlacchini S., Frigerio I., Frigerio S. (2011) - "GIS techniques and Decision Support Systems to reduce landslide risk: the case study of Corvara in Badia, northern Italy". *Geogr. Fis. e Dinam. Quat.*, 34 1, 81-88. ISSN 1724-4757; ISSN: 1724-4757. **SJR: Q2. I.F.: 0.641.**
12. Blahut J., Poretti I., De Amicis M., Sterlacchini S. (2012) - "Database of Geo-hydrological Disasters for Civil Protection Purposes". *Nat. Hazards*, 60, 3, 1065-1083. DOI: 10.1007/s11069-011-9893-6. ISSN: 0921-030X. **SJR: Q2. I.F.: 1.746.**
13. Ballabio C., Sterlacchini S., (2012) - "Support Vector Machines for Landslide Susceptibility Mapping: the Staffora River Basin Case Study, Italy". *Math. Geosci.*, 44, 1, 47-70. DOI: 10.1007/s11004-011-9379-9. ISSN: 1874-8961. **SJR: Q1. I.F.: 1.777.**
14. Sorichetta A., Masetti M., Ballabio C., Sterlacchini S. (2012) - "Aquifer nitrate vulnerability assessment using positive and negative weights of evidence methods, Milan, Italy". *Computers & Geosciences*, 48, 199-210. DOI:10.1016/j.cageo.2012.05.021. ISSN: 0098-3004. **SJR: Q1. I.F.: 2.474.**
15. Sorichetta A., Ballabio C., Masetti M., Robinson G.R., Sterlacchini S. (2013) - "A comparison of data-driven groundwater vulnerability assessment methods". *Ground Water*, National GroundWater Association, 51 (6), 866-879. DOI: 10.1111/gwat.12012. ISSN: 0017-467X. **SJR: Q1. I.F.: 1.947.**
16. Quan Luna B., Blahut J., Camera C., van Westen C.J., Apuani T., Jetten V. & Sterlacchini S. (2014) - "Physically-based dynamic run-out modelling for quantitative debris flow risk assessment: a case study in Tresenda, northern Italy". *Environmental Earth Sciences*, Springer, 72:645-661. DOI: 10.1007/s12665-013-2986-7. ISSN: 1866-6299. **SJR: Q2. I.F.: 1.765.**
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