## PERSONAL INFORMATION

# Roberta Bonì

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ORCID: https://orcid.org/0000-0002-3477-1044
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## WORK EXPERIENCE

30/10/2023 - current

### Assistant professor in Physical Geography and Geomorphology

Department of Science, Technology and Society (STS), University School for Advanced Studies (IUSS) Pavia, Italy

Sector Research; Earth Observation; Sustainable groundwater and land use management, risks

01/12/2021– 29/10/2023

### Junior Researcher in Engineering Geology

Dept. of Pure and Applied Sciences, University of Urbino “Carlo Bo”, Italy

Sector Research; Earth Observation; Sustainable groundwater and land use management

01/03/2019 - 30/11/2021

### Excellence research fellowship

Department of Earth and Environmental Sciences, University of Pavia, Italy

- Research project: Sustainable groundwater resources management by integrating A-DInSAR derived monitoring and flow modeling results”

Sector Research; Earth Observation; Sustainable groundwater and land use management

01/02/2018 – 31/01/2019

### Postdoctoral research fellow

Department of Earth and Environmental Sciences, University of Pavia, Italy

- Research project: Advanced detection, interpretation and modelling of Ground Motion Areas (A-GMA) in areas interested by liquefaction phenomena
  Partially funded by the EU Horizon 2020 project Liquefact “Assessment and mitigation of liquefaction potential across Europe: a holistic approach to protect structures / infrastructures for improved resilience to earthquake-induced liquefaction disasters”

Sector Research; Engineering Geology; liquefaction; risk;

01/02/2017 – 31/01/2018

### Postdoctoral research fellow

Department of Earth and Environmental Sciences, University of Pavia, Italy

- Advanced detection, interpretation and modelling of Ground Motion Areas (A-GMA)

Sector Research; Engineering Geology; Earth Observation; land subsidence, landslide

## EDUCATION AND TRAINING

01/11/2013–16/12/2016

### Doctor of Philosophy, Ph.D. in Earth and Environmental Sciences

Department of Earth and Environmental Sciences, University of Pavia, Italy

Research project: Ground motion identification, monitoring and modelling through multi-sensor A-DInSAR data.

Ground deformation investigations performed using a multi-disciplinary approach including geological, geotechnical, hydrogeological and Earth Observation data.
SAR images acquired by various sensors such as C-Band (ERS-1/2, Envisat, RADARSAT and Sentinel-1), X-Band (Cosmo-SkyMed and TerraSAR-X) and L-Band (ALOS PALSAR) that act at different spatio-temporal resolution, are exploited in order to assess their performance in the ground deformation investigations.

17/10/2011-19/07/2013

### Master degree in Applied Geological Sciences — 110/110 L

Department of Earth and Environmental Sciences, University of Pavia, Italy

Dissertation: Subsidence study based on Persistent Scatterer Interferometry: the case histories of Zaragoza and Lorca (Spain).

## ACADEMIC EXPERIENCE

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| Invited presentations to internationally established conferences and/or international workshops | 1. 17/09/2019-21/09/2019, Jakarta, Indonesia. Invited speaker for the Meeting of the UNESCO project IGCP 663: "Impact, Mechanism, Monitoring of Land Subsidence in Coastal cities". Title of the presentation: *"A-DInSAR technique as a supporting tool for detection and interpretation of land subsidence phenomena".*<br>2. 27/03/2019-29/03/2019, Guimarães, Portugal. Invited speaker for the Special Issue "Improved resilience of built environment to earthquake-induced liquefaction disaster" in IABSE symposium. Title of the presentation: *"Earthquake-induced soil liquefaction risk: macrozonation of the European Territory taking into account exposure."*<br>3. 30/10/2018-02/11/2018, Shanghai, China. Invited speaker for the Meeting of the UNESCO project IGCP 663: "Impact, Mechanism, Monitoring of Land Subsidence in Coastal cities". Title of the presentation: *"Multi-sensor Advanced DInSAR analysis to monitor and understand land subsidence mechanisms".*<br>4. 11/10/2018, Urbino, Italy. Invited speaker for the Conference "I rischi geologici nell'attività didattica e scientifica di Roberto Walter Romeo". Title of the presentation: *"Understand land subsidence mechanisms"* |
| Organisation of international conferences | 1. 22-24/06/2023 Member of the organizing committee. XII National Conference of the Young Researcher in Engineering Geology of AIGAA . Urbino, Italy.<br>2. 19/04/2023 Chair. Session: "Modelling and Matching". Tenth International Symposium on Land Subsidence. Delft. The Netherlands.<br>3. 23/04/2023 – 28/04/2023 Co-convener. Session: "NH6.1 Interferometric Synthetic Aperture Radar added value products for Natural & Anthropogenic hazard assessment at local, regional and national scale". EGU 2022. Vienna, Austria.<br>4. 05/09/2022 – 07/09/2022 Chair. Session: "Nuove metodologie per la caratterizzazione, il monitoraggio e l'analisi dei fenomeni franosi". XVI Convegno Nazionale delle Sezioni GIT e SI della Società Geologica Italiana. Fondi.<br>5. 23/05/2022 – 27/05/2022 Co-convener. Session: "Interferometric Synthetic Aperture Radar added value products for Natural & Anthropogenic hazard assessment at local, regional and national scale". EGU 2022. Vienna, Austria.<br>6. 18/02/2016 – 19/02/2016 Co-chair. Session: "Telerilevamento". X Congress of the Young Researcher in Engineering Geology of AIGAA . Bologna, Italy. |
| Projects | 1. 2023 – ongoing. Principal investigator of the Research Unit IUSS Pavia. Title of the project: "SubRISK+: Enhancing our understanding of Subsidence RISK induced by groundwater exploitation towards sustainable urban development" and funded in the framework of the Research Projects of Significant National Interest (PRIN) - National Recovery and Resilience Plan (PNRR) call 2022, € 239,757. One of the aims of the project is to capitalize on EU and Italian infrastructural/research investments in the space and land monitoring sector, by fastening the risk, impact and scenario assessment methodologies to existing land mapping products/services, that are standardized, validated and open access to the community, e.g. EU Copernicus' Land Monitoring (European Ground Motion Service, EGMS; CORINE Land Cover; Urban Atlas) and Emergency Management (Global Human Settlement Layer, GHSL) Services.<br>2. 2022 - ongoing. Principal investigator of the Research Unit IUSS Pavia. Title of the project: "ENGULF -Coastal land subsidence in the GULF of Guinea: Assessing relative sea-level rise and land subsidence of coastal mega-cities and river deltas along the Gulf of Guinea". Project funded by the Agence Française de Développement. € 2,00,000. The project aims to combine relative sea level rise projections with land-use maps and/or population maps at high resolution (e.g., ESA products) to assess the exposure of the population, economic activities, or ecosystems.<br>3. 05/11/2019 – 2022. Responsible Research and Innovation Manager (RRIM) of the PRIMA Project "Sustainable groundwater RESources managEment by integrating eaRth observation deriVed monitoring and flOw modelIng Results (RESERVOIR)" financed by *PRIMA foundation and EU H2020*, € 1,240,000. One of the aims of the project is to develop an innovative methodology for the hydrogeological characterisation of large-scale aquifer systems using Sentinel-1 images. The results have been published in a peer-reviewed paper.<br>4. Team member for the Project 663 - Impact, Mechanism, Monitoring of Land Subsidence in Coastal cities, 2018（IM2LSC). Investigate and study the coupling mechanisms of land subsidence with human activity and sea level rise. Application of different monitoring techniques and integrated networks. The project is funded by the UNESCO.<br>5. Principal investigator (PI) of the Proposal n°00017/8/641/1223 for the COSMO-SkyMed archive, Italian Space Agency (ASI), 2017. Management of the research Project "Characterization of the aquifer properties using Advanced Differential SAR Interferometry technique". |

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| | 6. Team member for the European projects 2017-2019. Horizon 2020 "LIQUEFACT (Assessment and mitigation of liquefaction potential across Europe: a holistic approach to protect structures / infrastructures for improved resilience to earthquake-induced liquefaction disasters".<br>7. Team member for the ARPA Piemonte, 2016. Project: "Servizio di aggiornamento del SifraP (Sistema Informativo Frane in Piemonte) finalizzato alla definizione della pericolosità da frana mediante analisi di dati d'archivio, fotointerpretazione ed analisi di dati di interferometria satellitare".<br>8. Principal investigator (PI) of the Proposal "GEO3016" for the TerraSAR-X archive, German Aerospace center (DLR), 2015. Management of the research Project "Land subsidence monitoring and understanding from space: The Ravenna area (Northern Italy) case history".<br>9. Team member for the international projects AQUARISK, Geohazards InSAR laboratory and Modeling Group (IGME), 2014-2017. Estudio de riesgos geológico-geotécnicos por explotación de acuíferos mediante técnicas espaciales y terrestres. Aplicaciones a estructuras e Aplicaciones a estructuras e infraestructuras urbanas.<br>10. Attendee to the international projects PanGeo, 2013. PanGeo provides free access to ground instability geohazard information for many of Europe's largest cities. Design of the PanGeo Report: Geohazard Description for Zaragoza, 2013. The objective of PanGeo was to enable free and open access to geohazard information in support of the program Copernicus (former GMES – Global Monitoring for Environment and Security), based on the collection of environmental data via satellites. This was achieved by making available geohazard data for 52 of the largest towns and cities of Europe, involving all 27 countries of the EU. PanGeo was an EC Project of the Seventh Framework Program. |
| International experiences | 1. 03/12/2018-14/12/2018, Madrid, Spain. ERASMUS+ Staff Mobility Grant for teaching at the Dept. of Geodynamics, Stratigraphy and Paleontology of the Complutense University of Madrid (Spain). Course: "Satellite SAR Interferometry for Engineering Geologists and Geologists" (12 hours).<br>2. 01/06/2015-30/07/2015 and 01/09/2015-30/09/2015, Keyworth, United Kingdom. Grant funded by Dept. of Earth and Environmental Sciences, University of Pavia. Visiting Ph.D. student at British Geological Survey (Keyworth, United Kingdom). Advisors: Dr. F. Cigna and Dr. Stephanie Bricker. Research project: Analysis of groundwater level records from the observation borehole network of the Environment Agency and combined these with InSAR ground motion time series across the London Basin, to estimate the properties of the Chalk aquifer-system (Urban Geoscience research project; BGS Ref. NEE4586).<br>3. 12/01/2015-13/03/2015, Madrid, Spain. ERASMUS+ Traineeship Grant. Institution: Geohazards InSAR laboratory and Modelling Group, Geological Survey of Spain (Madrid, Spain). Advisor: Prof. G. Herrera. Research project: Assistant for drilling of 300 m in depth, at Lorca city (Spain) and cooperation for building the stationary model of the Alto Guadalentin Aquifer (Spain) using MODFLOW software (AQUARISK project).<br>4. 07/01/2013-06/05/2013, Madrid, Spain. ERASMUS+ Placement Grant. Institution: Geohazards InSAR laboratory and Modelling Group, Geological Survey of Spain (Madrid, Spain). Advisor: Prof. G. Herrera. Research project: Analysis of the sinkholes in the evaporitic karst of the Ebro Valley (Zaragoza, Spain) and study of the aquifer compaction due to ground water withdrawal in Lorca (Murcia, Spain) by the use of satellite interferometric data. |
| Teaching activities | 1. 2023-2024: Lecturer in "Hydromorphology". Master in Civil Engineering for Mitigation of Risk from Natural Hazards that is jointly offered by the University of Pavia and the School of Advanced Studies of Pavia (IUSS). http://civrisk.unipv.it/<br>2. 2022-2023: Lecturer in "Geomorphology and soil conservation" for the bachelor degree in Geology and Land-Use Planning. University of Urbino "Carlo Bo", Department of Pure and Applied Sciences, Urbino, Italy. (8 ECTS).<br>3. 2021-2022: Lecturer in "Geomorphology and soil conservation" for the bachelor degree in Geology and Land-Use Planning. University of Urbino "Carlo Bo", Department of Pure and Applied Sciences, Urbino, Italy. (8 ECTS).<br>4. Lecturer for the Course "Satellite SAR interferometry as a supporting tool for the land subsidence" organized in the framework of the PhD program of Earth and Environmental Sciences of the University of Pavia (Italy). From 19/10/2020 to 23/10/2020 (16 hours).<br>5. ERASMUS+ Staff Mobility Grant at the Dept. of Geodynamics, Stratigraphy and Paleontology of the Complutense University of Madrid (Spain). From 03/12/2018 to 14/12/2018 (12 hours). Course: "Satellite SAR Interferometry for Engineering Geologists and Geologists".<br>6. Lecturer for the Course entitled "Landslides Hazard and Risk" organized in the framework of the Master in Civil Engineering for Mitigation of Risk from Natural Hazards that is jointly offered by the University of Pavia and the School of Advanced Studies of Pavia (IUSS). http://civrisk.unipv.it/ (10 hours).<br>7. Tutoring for Cartography course for students of first year of the degree in Earth and Environmental Sciences at the University of Pavia (a.y. 2014-2015, 2015-2016 BSc).<br>8. Lecturer for the course "Engineering Geology for Land Planning" (a.y. 2014-2015, 2015-2016, |

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| | M.Sc.).<br>9. Tutoring for Engineering Geology course for students of the degree in Earth and Environmental Sciences at the University of Pavia (a.y. 2017-2018, 2018-2019, 2019-2020 BSc). |
| Supervision of graduate students and postdoctoral fellows | PhD Co-Supervisor<br>▪ M. Rygus, PhD Earth and Env. Sciences at University of Pavia, Italy, 2021<br>MSc Co-Advisor<br>▪ Giarola (2020). L. Pedretti (2020). L. Guzzon (2020). G. Perotti (2018), G. Cerra (2018), L. Poggi (2018). Bosino (2017). University of Pavia, Italy.<br>BSc Co-Advisor<br>▪ M. Bianchini (2022). University of Urbino "Carlo Bo", Italy.<br>E. Gigante (2021), A. Secondo (2021), M. Guerra (2020), R. Guida (2020), M. Ruffoni (2020), E. Festari (2020). M. Barbero (2019). A. Giardini (2018). S. Zana (2018). F. Bacciocchi (2017). University of Pavia, Italy. |
| Seminars | Lecturer for the seminary "Hydrogeological risk: structural and non-structural mitigation of landslide phenomena" Title of the presentation: *"Differential SAR interferometry as supporting tool of the analysis of the hydrogeological risk: advantages and limits"*.<br>24 February, 2017, European Centre for Training and Research in Earthquake Engineering (Eucentre) and ReLUIS, Pavia, Italy. Lecturer for the seminary. |
| Editorial activity | ▪ Member of the editorial board as reviewer for: Remote sensing, Applied Sciences, Natural Hazards, Landslides, AUC Geographica, Journal of Geography, Environment and Earth Science International, Sensors, Frontiers in Earth Science.<br>▪ Member of the editorial board as guest editor for the Special Issue "Earth Observations to Support the Management of Groundwater Level Changes Impacts" in Geosciences (ISSN 2076-3263).<br>▪ Member of the editorial board as guest editor for the Special Issue "SAR Imagery for Landslide Detection and Prediction" in Remote Sensing (ISSN 2072-4292).<br>▪ Member of the editorial board as guest editor for the Special Issue "Earth Observations for Land Subsidence Identification, Monitoring and Their Contribute to Modeling"" in Remote Sensing (ISSN 2072-4292).<br>▪ Topic editor of Remote Sensing (ISSN 2072-4292). |
| Honours and awards | ▪ Italian Scientific Habilitation as Associate Professor. Abilitazione Scientifica Nazionale (ASN), Settore Concorsuale 04/A3 (Geologia Applicata, Geografia Fisica E Geomorfologia) – Fascia II. Bando n. 2175/2018 . Validità dal 10/06/2021 al 10/06/2030.<br>07/11/2019 Hutchison Fund Travel Awards funded by International Union of Geological Sciences – IUGS to attend the 36th IGC. https://www.iugs.org/awards<br>Conference Theme 1: Geoscience for Society. 1.12 The roles of UNESCO, IGCP and IUGS in realizing the UN Sustainable Development Goals (Symposium proposed by UNESCO-IGCP-IUGS) |
| Memberships | ▪ 2021-present: Affiliates of the "UNESCO Land Subsidence International Initiative (LaSII)" https://www.landsubsidence-unesco.org/members/<br>▪ 2021-present: Member of the European Geosciences Union (EGU)<br>▪ 2021-present: Member of theInternational Association of Hydrogeologists<br>▪ 2016-present: Member of the Italian Association of Engineering Geology and Environment (AIGAA) |
| Major collaborations | ▪ 20/06/2015-present - British Geological Survey (Keyworth, United Kingdom), Urban Geoscience (BGS Ref. NEE4586) project. Topic: Geohazard mapping using InSAR.<br>▪ 12/01/15-present - Geohazards InSAR laboratory and Modelling Group, Geological Survey of Spain (Madrid, Spain), Topic: Geological interpretation of InSAR data for land subsidence areas in Spain. http://www.igme.es/InSARlab/equipo.htm. |
| Activities to generate knowledge outside academic environments to the benefit of the social, cultural and economic development | ▪ 27/09/2019, European Researchers' Night 2019, funded under the Marie Skłodowska-Curie actions (MSCA) Pavia. Support for the Stand of the Dept. of Earth and Environmental Sciences, University of Pavia (Italy).<br>▪ 28/09/2018, European Researchers' Night 2018, funded under the Marie Skłodowska-Curie actions (MSCA) Pavia. Support for the Stand of the Dept. of Earth and Environmental Sciences, University of Pavia (Italy).<br>▪ Attendee to National Plan for Science Degrees (PLS) project of the Italian Ministry of Education, Universities and Research (MIUR) of University of Pavia, that is aimed of stimulating students' interest in science, and offers refresher courses for teachers.<br>From 2017-present. |
| Publications | Engagement of stakeholders to develop new EO information products<br>1. **Bonì, R.,** Teatini, P., Zoccarato, C., Guardiola-Albert, C., Ezquerro, P., Bru, G., ... & Meisina, C. (2022). Stakeholders' Perspective on Groundwater Management in Four Water-Stressed |

Mediterranean Areas: Priorities and Challenges. Land, 11(5), 738.

Development of novel advanced multi-sensors EO-based products

2. Righini, M., **Bonì, R.,** Sapio, S., Gatti, I., Salvadore, M., & Taramelli, A. (2024). Development of a Proof-of-Concept A-DInSAR-Based Monitoring Service for Land Subsidence. Remote Sensing, 16(11), 1981.
3. **Bonì, R.,** Meisina, C., Teatini, P., Zucca, F., Zoccarato, C., Franceschini, Ezquerro, P., Béjar-Pizarro, M., Fernández-Merodo, J.A., Guardiola-Albert, C., Pastor, J.L, Tomás, R., Herrera, G. (2020). 3D groundwater flow and deformation modelling of Madrid aquifer. Journal of Hydrology, Volume 585, June 2020.
4. **Bonì, R.,** Bordoni, M., Colombo, A., Lanteri, L., Meisina, C. (2018). Landslide state of activity maps by combining multi-temporal A-DInSAR (LAMBDA). Remote sensing of environment, 217, 172-190.
5. Cevasco, A., Termini, F., Valentino, R., Meisina, C., **Bonì, R.,** Bordoni, M., Chella, G.P., De Vita, P. (2018). Residual mechanisms and kinematics of the relict Lemeglio coastal landslide (Liguria, northwestern Italy). Geomorphology, 320, 64-81.
6. **Bonì, 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 Sensing, 10(4), 607.
7. Bordoni, M., **Bonì, R.,** Meisina, C., Colombo, A., Lanteri L. (2018). Methodology for Ground Motion Areas Detection (GMA-D) through A-DInSAR time series for landslides investigation. Catena, 163, 89-110.
8. Ezquerro, P., Guardiola-Albert, C., Herrera, G., Fernández Merodo, J. A., Béjar-Pizarro, M., **Bonì, R.** (2017). Groundwater and subsidence modelling combining geological and multi-satellite SAR data over the Alto Guadalentín aquifer (SE Spain). Geofluids, 2017.
9. **Bonì, R.,** Meisina, C., Cigna, F., Herrera, G., Notti, D., Bricker, S., McCormack, H., Tomás, R., Béjar-Pizarro, M., Mulas, J., Ezquerro, P. (2017) Exploitation of Satellite A-DInSAR Time Series for Detection, Characterization and Modelling of Land Subsidence. Geosciences, 7, 25.
10. Fiaschi, S., Tessitore, S., **Bonì, R.,** Di Martire, D., Achilli, V., Borgstrom S., Ibrahim, A., Floris, M., Meisina C., Ramondini, M., Calcaterra, D. (2016) From ERS-1/2 to Sentinel-1: two decades of subsidence monitored through A-DInSAR techniques in the Ravenna area (Italy). GIScience & Remote Sensing, 1-24.
11. **Bonì, R.,** Pilla, G., Meisina, C. (2016) Methodology for Detection and Interpretation of Ground Motion Areas with the A-DInSAR Time Series Analysis. Remote Sensing, 8, 686.
12. **Bonì, R.,** Cigna, F., Bricker, S., Meisina, C., McCormack, H. (2016). Characterisation of hydraulic head changes and aquifer properties in the London Basin using Persistent Scatterer Interferometry ground motion data. Journal of Hydrology, 540, 835-849. Remote Sensing, 8, 686.
13. **Bonì, R.,** Herrera, G., Meisina, C., Notti D., Zucca, F., Bejar, M., González, P., Palano, M., Tomás, R., Fernandez, J., Fernández-Merodo, J., Mulas, J., Aragón, R., Guardiola-Albert, C., Mora, O. (2015) Twenty-year advanced DInSAR analysis of severe land subsidence: the Alto Guadalentín Basin (Spain) case study. Engineering Geology.

Validation of EO-based products

14. Navarro-Hernández, M. I., Valdes-Abellan, J., Tomás, R., Lopez-Sanchez, J. M., Ezquerro, P., Bru, G., **Bonì, R.,** Meisina, C. & Herrera, G. (**2022**). ValInSAR: A systematic approach for the validation of Differential SAR Interferometry in land subsidence areas. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 15, 3650-3671.
15. **Bonì, R.,** Bordoni, M., Vivaldi, V., Troisi, C., Tararbra, M., Lanteri, L., Zucca, F. & Meisina, C. (2020). Assessment of the Sentinel-1 based ground motion data feasibility for large scale landslide monitoring. Landslides.

Analysis, integration and modelling of EO-based approaches and in situ products

16. Morelli, S., **Bonì, R.,** De Donatis, M., Marino, L., Pappafico, G. F., & Francioni, M. (2023). A Low-Cost and Fast Operational Procedure to Identify Potential Slope Instabilities in Cultural Heritage Sites. *Remote Sensing*, *15*(23), 5574.
17. Bordoni, M., Vivaldi, V., **Bonì, R.,** Spanò, S., Tararbra, M., Lanteri, L., ... & Meisina, C. (**2022**). A methodology for the analysis of continuous time-series of automatic inclinometers for slow-moving landslides monitoring in Piemonte region, northern Italy. *Natural Hazards*, 1-28.
18. Meisina, C., **Bonì, R.,** Bordoni, M., Lai, C. G., Bozzoni, F., Cosentini, R. M., ... & Severi, P. (**2022**). 3D Engineering Geological Modeling to Investigate a Liquefaction Site: An Example in Alluvial Holocene Sediments in the Po Plain, Italy. *Geosciences*, 12(4), 155.
19. Meisina, C., Öztürk Kardoğan, P. S., **Bonì, R.,** Stacul, S., Castaldini, D., Fontana, D., ... & Lo Presti, D. (2021). Development and Use of a Minicone for Liquefaction Risk Evaluation in Layered Soil Deposits. Journal of Geotechnical and Geoenvironmental Engineering, 147(2),

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| | 04020169.<br>20. Lai, C. G., Bozzoni, F., Conca, D., Famà, A., Özcebe, A. G., Zuccolo, E., Meisina, C., Bonì, R., Bordoni, M., Cosentini, R. M., Martelli, L., Poggi, V., Viana da Fonseca, A., Ferreira, C., Rios, S., Cordeiro, D., Ramos, C., Molina-Gómez, F., Coelho, C., Logar, J., Maček, M., Oblak, A., Ozcep, F., Bozbey, I., Oztoprak, S., Sargin, S., Aysal, N., Oser C. & Kelesoglu M. K. (2020). Technical guidelines for the assessment of earthquake induced liquefaction hazard at urban scale. Bulletin of Earthquake Engineering, 1-45.<br>Risk and hazard mapping at the European Scale<br>21. Meisina, C., **Bonì, R.,** Bozzoni, F., Conca, D., Perotti, C., Persichillo, P., & Lai, C. G. (**2022**). Mapping soil liquefaction susceptibility across Europe using the analytic hierarchy process. *Bulletin of Earthquake Engineering,* 20(11), 5601-5632.<br>22. Bozzoni, F., **Bonì, R.,** Conca, D., Meisina, C., Lai, C. G., & Zuccolo, E. (2021). A Geospatial Approach for Mapping the Earthquake-Induced Liquefaction Risk at the European Scale. Geosciences, 11(1), 32.<br>23. Bozzoni, F., **Bonì, R.,** Conca, D., Lai, C. G., Zuccolo, E., & Meisina, C. (2020). Megazonation of earthquake-induced soil liquefaction hazard in continental Europe. Bulletin of Earthquake Engineering, 1-24.<br>24. Lai, C. G., Poggi, V., Famà, A., Zuccolo, E., Bozzoni, F., Meisina, C., **Bonì, R.,** Martelli, L., Massa, M., Mascandola, C., Petronio, L., Affatato, A., Baradello, L., Castaldini, D., Cosentini R.M. (2020). An inter-disciplinary and multi-scale approach to assess the spatial variability of ground motion for seismic microzonation: The case study of Cavezzo municipality in Northern Italy. Engineering Geology, Volume 274, 5 September 2020, DOI: 10.1016/j.enggeo.2020.105722.<br>Roadmap for prevention and control of land subsidence in the coastal cities<br>25. Yan, X., Xu, Y., Yang, T., Tosi, L., Stouthamer, E., Minderhoud, P., ... & **Bonì, R.** (**2022**). Sustainable development of coastal cities through control of land subsidence: activities of IGCP Project 663 in Jakarta. *Episodes Journal of International Geoscience*, 45(1), 101-108.<br>26. Yan, X., Tianliang, Y., Yan, X., Tosi, L., Stouthamer, E., Andreas, H., Minderhoud, P., Ladawadee, A., Hanssen, R., Erkens, G., Teatini, P., Jinxin, L., **Bonì, R.,** Chimpalee, J., Xinlei, H., Da Lio, C., Meisina, C., Zucca, F. (2020). Advances and Practices on the Research, Prevention and Control of Land Subsidence in Coastal Cities. Acta Geologica sinica, Volume 94, Issue 1, 1 February 2020, Pages 162-175. |
| Paper in book volumes | 1. Meisina, C., **Bonì, R.,** Bordoni, M., Lai, C.G., Famà, A., Bozzoni, F., Cosentini, R.M., Castaldini, D., Fontana, D., Lugli, S., Ghinoi, A., Martelli, L., Severi, P. (2019). 3D geological model reconstruction for liquefaction hazard assessment in the Po Plain. In: Silvestri F., Moraci N. (Eds.), Earthquake geotechnical engineering for protection and development of environment and constructions, 3837- 3844.<br>2. **Bonì, R.,** Bordoni, M., Meisina, C., Colombo, A., Lanteri, L. (2017). Integration of multi-sensor A-DInSAR data for landslide inventory update. In Workshop on World Landslide Forum (pp. 133-142). Springer, Cham. |
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Poster

1. Living Planet Symposium 2019, Milan, Italy, 13-17 May 2019 (**Bonì, R.,** Da Lio, C., Meisina, C., Teatini, P., Luigi Tosi, L, Xu Y., Yan, X., Zucca, F., Using A-DInSAR displacement time - series analysis for evaluating urban land subsidence and geotechnical characterization of coastal soils).
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