

CURRICULUM VITAE OF MASSIMILIANO BORDONI

I. PERSONAL DETAIL AND CONTACTS

Date of birth	April 16 th 1987
City of birth	Milan
Nationality	Italian
E-mail	massimiliano.bordoni01@universitadipavia.it
Current Employee	Department of Earth and Environmental Sciences - University of Pavia Via Ferrata n.1, 27100, Pavia, Italy
Present address	Via Palmiro Togliatti n.10, Pieve Emanuele (MI), 20090, Italy
Land Phone	(+39) 0382985840 (office), (+39) 0290721284 (home)
Mobile	(+39) 3381282762
Fax	(+39) 0382985890
IM contact	massi.bordoni (skype)
Website	http://sciter.unipv.eu/site/home/persona/assegnisti-e-borsisti/scheda720004440.html
ORCID	http://orcid.org/0000-0001-6483-3544
Scopus ID	55831796900
Google Scholar	https://scholar.google.it/citations?user=Vzcj-UQAAAAJ&hl=it

II. ACADEMIC RECORD AND CAREER

February 2016 - Present	<p>Post-Doctoral Research Fellow at Department of Earth and Environmental Sciences of University of Pavia</p> <p>Fellowship from Department of Earth and Environmental Sciences of University of Pavia</p> <p>Project: "<i>Development and application of innovative monitoring tools for the assessment of triggering mechanisms of rainfall-induced landslides</i>". Research topics:</p> <ul style="list-style-type: none"> • Identification of rainfall-induced shallow landslides triggering mechanisms by the use of field hydrological monitoring data • Identification of ground motion areas and landslides
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triggering mechanisms in different geological contexts through Advanced SAR Interferometry (DInSAR) data interpretation

- Analysis of the role of vineyards in rainfall induced landslides for defining correct agricultural practices improving slope stability
- Development and application of a data-driven methodology based on Genetic Algorithm Method for the assessment of rainfall induced landslides triggering zones considering a multi-scale analysis
- Development of a methodology based on Support Vector Machines for the estimation of soil water content trends in the assessment of shallow landslides triggering initiation at slope scale
- Developing of lithological-geotechnical models in different geological contexts
- Geological, hydrological and hydrogeological studies supporting masterplans of big infrastructures

Supervisor: Prof. Claudia Meisina

May 2014 - July 2014

Research period at Civil & Environmental Engineering Department of Colorado School of Mines, Golden, CO, USA

Project: "*Monitoring data analysis for the identification of shallow landslides preparatory and triggering factors; development and application of simplified and physically-based models for shallow landslides susceptibility assessment at different scales*". Research topics:

- Identification of rainfall-induced shallow landslides preparatory and triggering factors, also by the use of field hydrological monitoring data
- Application of simplified and physically-based models for shallow landslides triggering zones identification at different scales

Supervisor: Prof. Claudia Meisina - Prof. Ning Lu

November 2012 - November 2015

Phd research at Department of Earth and Environmental Sciences of University of Pavia

Title of Phd dissertation: "*Rainfall-induced shallow landslides prediction at different scales*". Research topics:

- Identification of rainfall-induced shallow landslides preparatory and triggering factors, also by the use of field hydrological monitoring data
- Application of simplified and physically-based models for shallow landslides triggering zones identification at different scales
- Analysis of the role played by vegetation on soil root reinforcement and slope stability

Advisor: Prof. Claudia Meisina - Co-Advisor: Dr. Roberto Valentino

October 2009 - July 2011

Master degree in Applied Geological Sciences, University of Pavia. Level in national classification: 110/110 cum Laude

April 2009 - September 2009

Operational assistant for the research project supported by the Province of Pavia (Italy): "*Study of shallow landslides triggered by*

the 27-28 April 2009 event in Oltrepò Pavese and guidelines for a correct slope management". Research topics:

- Detection of rainfall-induced shallow landslides triggered by 6-8 February and 27-28 April 2009 events in Oltrepò Pavese area

Supervisor: Prof. Claudia Meisina

September 2006 – September 2009 Bachelor degree in Geology and Natural Resources, University of Pavia Level in national classification: 107/110

September 2001 – July 2006 High school Certificate, Scientific High School T. Taramelli, Pavia. Level in national classification: 100/100

II. TRAINING ACTIVITIES

A. Attended courses, special schools and seminars

- Year 2017 Course of "Hydrogeological modeling through FREEWAT", University of Applied Sciences and Arts of Southern Switzerland, Lugano, Switzerland
- Year 2016 Course of "Advanced ArcGIS Desktop", Eucentre, Pavia, Italy
 Seminar of "Presentazione delle attività di analisi ed elaborazione dei dati interferometrici in Piemonte nell'ambito del programma PAR-FSC e del servizio di mappatura interferometrica continua con Sentinel", Arpa Piemonte, Turin, Italy
 Course of "La nuova normativa regionale in materia di costruzioni in zona sismica", Ordine dei Geologi della Lombardia - University of Pavia
 Course of "Ambienti interrati soggetti ad allagamento: progettazione e tecnologie di emungimento acque, sistemi di impermeabilizzazione", Ordine dei Geologi della Lombardia - University of Pavia
- Year 2015 Course of "Elementi di geostatistica con R", Prof. P. Fabbri, University of Milan
 Course of "Hillslope hydrology and stability", Prof. N. Lu, University of Pavia
- Year 2014 Course of "Advanced geomechanical modelling applied to landslides", Phd School in Earth System Sciences e Models and Methods for Materials and Environmental Sciences, University of Modena and Reggio Emilia
 Course of "EROSIONE: scale spazio-temporali", Phd School in Sciences and Technologies, University of Pavia
 Course of "Caratterizzazione geomeccanica di terreni insaturi", Phd School in Earth System Sciences e Models and Methods for Materials and Environmental Sciences, Università of Modena and Reggio Emilia
 Course of "Tecniche di laboratorio per l'analisi della porosità del suolo: tomografia a raggi X e analisi di immagine da blocchi e sezioni sottili", University of Bologna
- Year 2013 International School of "International School on Landslide Risk Assessment and Mitigation-LARAM 2013", University of Salerno

- Course of *"La Geologia delle Dolomiti"*, Phd School in Sciences and Technologies, University of Pavia
- Year 2012 Seminar of *"Il disastro del 1 Ottobre 2009 nell'area nord orientale della provincia di Messina"*, Politecnico of Turin
- Seminar of *"Analisi, pericolosità e mitigazione del rischio di frana causata da pioggia"*, Politecnico of Turin

B. Attended congresses

- Year 2017 *"Fifth International Congress on Mountain and Steep Slope Viticulture"*, Conegliano Veneto, Italy
- Year 2016 *"12th International Symposium on Landslides"*, Naples, Italy
- "X Convegno Nazionale dei Giovani Ricercatori di Geologia Applicata"*, Italian Association of Applied Geology, DICAM e BIGeA of University of Bologna, Bologna, Italy
- Year 2015 *"La geologia dell'Oltrepò Pavese ed i suoi riflessi sull'economia del territorio"*, Retorbido, Italy
- "Recuperiamo Terreno: politiche, azioni e misure per un uso sostenibile del suolo"*, Milan, Italy
- Year 2014 *"International Association of Engineering Geology XII Congress: Engineering Geology for Society and Territory"*, Turin, Italy
- "11th European Geosciences Union General Assembly-EGU 2014"*, Wien, Austria
- "Dissesto Idrogeologico: conservazione e fertilità del suolo"*, CIRIVE, University of Milan, Riccagioia S.C.p.A., Torrazza Coste, Italy
- Year 2013 *"The Third Italian Workshop on Landslides: Hydrological response of slope through physical experiments, field monitoring and mathematical modeling"*, Department of Civil, Design, Building and Environmental Engineering, Second University of Naples, Naples, Italy
- "Geoitalia 2013 – Le Geoscienze per la società IX Forum di Scienze della Terra"*, Italian Confederation of Earth Sciences, Pisa, Italy
- "Soil Systems and Critical Zone – Integrating Life Support Functions across Disciplines"*, Swiss Federal Institute of Technology Zurich ETH, Ascona, Switzerland
- "10th European Geosciences Union General Assembly - EGU 2013"*, Vienna, Austria
- "IX Convegno Nazionale dei Giovani Ricercatori di Geologia Applicata"*, Italian Association of Applied Geology, DIGA and DST of University Federico II of Naples, Naples, Italy

III. SCIENTIFIC ACTIVITY

A. Main research topics

- Identification of rainfall-induced shallow landslides triggering mechanisms by the use of field hydrological monitoring data
- Identification of ground motion areas and landslides triggering mechanisms in different geological contexts through Advanced SAR Interferometry (DInSAR) data interpretation
- Analysis of the role of land uses in promoting or reducing slope instability, by means of the assessment of root reinforcement in soil
- Development and application of data-driven methodologies for the assessment of rainfall

induced landslides triggering zones and susceptibility considering a multi-scale analysis

- Application of physically based models for assessing shallow landslides susceptibility at different scales
- Development of a methodology based on Support Vector Machines for the estimation of soil water content trends in the assessment of shallow landslides triggering initiation at slope scale
- Developing of lithological-geotechnical models in different geological contexts
- Geological, hydrogeological, hydrological and geomorphological studies supporting masterplans of big infrastructures

B. Grants

- May 2017 - : Research project financed by Fondazione CARIPLO "*Oltrepò BioDiverso: la natura che accoglie*"
- November 2016 - : Participation at the 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)*"
- June 2016 - : Research convention funded by SEA s.p.a. "*Masterplan of Malpensa airport: analysis of the geological, geomorphological and hydrological aspects*"
- June 2016 - : Research convention funded by SEA s.p.a. "*Masterplan of Linate airport: analysis of the geological, geomorphological and hydrogeological aspects*"
- November 2015 - November 2016: Research project financed by ARPA Piemonte "*Updating the landslide inventory with ancillary data, monitoring and interferometric data*"

C. Publications

Summary

ORCID: 0000-0001-6483-3544

Publications: Web of Science 12 - Scopus 21

H-index: Scopus and Web of Science 4 - Google Scholar 3

Citations: Scopus 43 - Web of Science 24 - Google Scholar 50

Papers in peer-reviewed journals

1. Persichillo M.G., **Bordoni M.**, Meisina C. (2017). *The role of land use changes in the distribution of shallow landslides*. Science of the Total Environment 574, 924–937. doi:10.1016/j.scitotenv.2016.09.125. Scopus code: 2-s2.0-84988528052. WOS code: 000389090100088.
2. Persichillo M.G., **Bordoni M.**, Cavalli M., Crema S., Meisina C. (2017). *Evaluation of anthropogenic effects on the sediment delivery dynamics in response to slope instability*. Rendiconti Online della Società Geologica Italiana 42, 5-9. doi: 10.3301/ROL.2016.34. doi:10.3301/ROL.2017.01.
3. Persichillo M.G., **Bordoni M.**, Meisina C., Bartelletti C., Barsanti M., Giannecchini R., D'Amato Avanzi G., Galanti Y., Cevasco A., Brandolini P., Galve J.P. (2016). *Shallow landslides susceptibility assessment in different environments*. Geomatics, Natural Hazards and Risk. doi:10.1080/19475705.2016.1265011. Scopus code: 2-s2.0-85006165453.
4. **Bordoni M.**, Meisina C., Vercesi A., Bischetti G.B., Chiaradia E.A., Vergani C., Chersich S., Valentino R., Bittelli M., Comolli R., Persichillo M.G., Cislighi A. (2016). *Quantifying the contribution of grapevine roots to soil mechanical reinforcement in an area susceptible to shallow landslides*. Soil & Tillage Research, 163, 195–206. doi:10.1016/j.still.2016.06.004. Scopus code: 2-s2.0-84976421858. WOS code: 000381834000022.
5. **Bordoni M.**, Meisina C., Valentino R., Persichillo M.G., Bittelli M., Chersich S. (2016). *The impact of hydrological parameters on modelling slope safety factor towards shallow*

- landslides: a case study from Oltrepò Pavese*. E3S Web of Conferences 9, 15005. doi:10.1051/e3sconf/20160915005.
6. **Bordoni M.**, Meisina C., Vercesi A., Bischetti G.B., Chiaradia E.A., Bassanelli C., Vergani C., Valentino R., Bittelli M., Chersich S. (2016). *Grapevine root system strength in an area susceptible to shallow landslides for slope stability assessment*. Acta Horticulturae 1136, 81-88. doi:10.17660/ActaHortic.2016.1136.11. Scopus code: 2-s2.0-84985910957.
 7. **Bordoni M.**, Persichillo M.G., Meisina C. (2016). *The role of the vineyards on slope stability: a case study from an area susceptible to shallow landslides*. Rendiconti Online della Società Geologica Italiana 39, 8-11. doi: 10.3301/ROL.2016.34. Scopus code: 2-s2.0-84963622525. WOS code: 000373177000003.
 8. Persichillo M.G., Dutta P.J., **Bordoni M.**, Meisina C., Bartelletti C., Barsanti M., Giannecchini R., D'Amato Avanzi G., Galanti Y., Cevasco A., (2016). *Nonlinear regression technique to assess the landslide susceptibility of the Kalapahar hill, Guwahati, Assam State (India)*. Rendiconti Online della Società Geologica Italiana 41, 179-182. doi: 10.3301/ROL.2016.123. WOS code: 000388918100045.
 9. Chersich S., Reisek K., Vranova V., **Bordoni M.**, Meisina C. (2015). *Climate change impacts on the Alpine ecosystem: an overview with focus on the soil – a review*. Journal of Forest Science 61, 11, 496-514. doi: 10.17221/47/2015-JFS. Scopus code: 2-s2.0-84948708587.
 10. **Bordoni M.**, Meisina C., Valentino R., Bittelli M., Chersich S. (2015). *Site-specific to local-scale shallow landslides triggering zones assessment using TRIGRS*. Natural Hazards and Earth System Sciences, 15, 1025–1050. Scopus code: 2-s2.0-84930196241. doi: 10.5194/nhess-15-1025-2015. WOS:000355288700007.
 11. **Bordoni M.**, Meisina C., Valentino R., Lu N., Bittelli M., Chersich S. (2015). *Hydrological factors affecting rainfall-induced shallow landslides: from the field monitoring to a simplified slope stability analysis*. Engineering Geology, 193, 19–37. doi: 10.1016/j.enggeo.2015.04.006. Scopus code: 2-s2.0-84928252322. WOS:000357350000002.
 12. **Bordoni M.**, Persichillo M.G., Meisina C., Cevasco A., Giannecchini R., D'Amato Avanzi G., Galanti Y., Bartelletti C., Brandolini P., Zizioli D. (2015). *Developing and testing a data-driven methodology for shallow landslide susceptibility assessment: preliminary results*. Rendiconti Online della Società Geologica Italiana 35, 25-28. doi: 10.3301/ROL.2015.54. Scopus code: 2-s2.0-84930730030.
 13. **Bordoni M.**, Zizioli D., Meisina C., Valentino R., Bittelli M., Chersich S. (2013). *Monitoring of a slope susceptible to shallow landslides: preliminary results*. Rendiconti Online della Società Geologica Italiana 24, 31-33. Scopus code: 2-s2.0-84882784825.

Papers in non peer-reviewed journals

1. **Bordoni M.**, Meisina C., Vercesi A. (2016). *Vigneti in pendenza: interfila inerbito o lavorato?*. Il Corriere Vinicolo - Vite 8, 13-15.
2. Meisina C., Vercesi A., **Bordoni M.**, Chersich S., Bassanelli C., Vergani C., Valentino R., Bittelli M. (2015). *Il ruolo della vite nella prevenzione del dissesto idrogeologico*. Il Corriere Vinicolo - Vite 4, 15-18.

Papers in book volumes

1. **Bordoni M.**, Persichillo M.G., Meisina C., Chersich S., Vercesi A., Bischetti G.B., Chiaradia E.A., Cislighi A., Vergani C., Valentino R., Bittelli M., Comolli R. (2016). *The role of the vineyards on shallow landslides*. In: Aversa S., Cascini L., Picarelli L., Scavia C. (Eds.), Landslides and engineered slopes - Experience, theory and practice, Vol. 2, 467-474.
2. **Bordoni M.**, Meisina C., Chersich S., Persichillo M.G., Valentino R., Bittelli M. (2016). *Monitoring of hydrological parameters for the identification of shallow landslides triggering: A case study from Northern Italy*. In: Aversa S., Cascini L., Picarelli L., Scavia C. (Eds.), Landslides and engineered slopes - Experience, theory and practice, Vol. 2, 475-482.
3. Persichillo M.G., **Bordoni M.**, Meisina C., Bartelletti C., Giannecchini R., D'Amato Avanzi

- G., Galanti Y., Cevasco A., Brandolini P., Galve J.P., Barsanti M. (2016). *Shallow landslides susceptibility analysis in relation to land use scenarios*. In: Aversa S., Cascini L., Picarelli L., Scavia C. (Eds.), *Landslides and engineered slopes - Experience, theory and practice*, Vol. 3, 1606-1612.
4. Valentino R., **Bordoni M.**, Meisina C., Zizioli D., Bittelli M., Chersich S. (2015). *Monitoring and modelling of soil-atmosphere interaction on a slope affected by shallow landslides*. In: Lollino G., Giordan D., Crosta G.B., Corominas J., Azzam R., Wasowski J., Sciarra N. (Eds.), *Engineering geology for society and territory*, Vol. 2, 1563-1566. doi: 10.1007/978-3-319-09057-3_277. Scopus code: 2-s2.0-84944614569. WOS code: 000358988100277.
 5. Zizioli D., Meisina C., Zucca F., **Bordoni M.**, Notti D., Remondino F., Gamba P. (2015). *Evaluation of Pleiades images for rainfall triggered shallow landslides mapping*. In: Lollino G., Giordan D., Crosta G.B., Corominas J., Azzam R., Wasowski J., Sciarra N. (Eds.), *Engineering geology for society and territory*, Vol. 2, 405-409. doi: 10.1007/978-3-319-09057-3_64. Scopus code: 2-s2.0-84944553498. WOS code: 000358988100064.
 6. **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2014). *Rainfall-induced landslides: slope stability analysis through field monitoring*. In: Sassa K., Canuti P., Yin Y. (Eds.), *Landslide science for a safer geoenvironment*, Vol. 3, 273-279.
 7. Zizioli D., Meisina C., **Bordoni M.**, Zucca F. (2014). *Rainfall-triggered shallow landslides mapping through Pleiades images*. In: Sassa K., Canuti P., Yin Y. (Eds.), *Landslide science for a safer geoenvironment*, Vol. 2, 325-329.

Papers in conference proceedings

1. **Bordoni M.**, Persichillo M.G., Vercesi A., Meisina C. (2017). *Effects of vineyards on the stability of steep slopes*. In: *Proceedings of the Fifth International Congress on Mountain and Steep Slope Viticulture-Oral Communications*, 88-97.
2. Meisina C., Valentino R., Bittelli M., **Bordoni M.**, Chersich S., Persichillo M.G. (2016). *Field investigation of soil-atmosphere interaction on a slope prone to shallow landslides*. In: Daponte P., Simonelli A.L. (Eds.), *Proceedings of the 1st IMEKO TC-4 International Workshop on Metrology for Geotechnics*, 224-229. Scopus code: 2-s2.0-84973896971.
3. Chersich S., Zucca F., Meisina C., **Bordoni M.** (2015). *Un laboratorio all'aperto dedicato al suolo e al paesaggio*. In: Munafò M., Sallustio L., Salvi S., Marchetti M. (Eds.), *Convegno Recuperiamo Terreno-Atti sessione poster*, Vol. 2, 355-366.
4. Meisina C., **Bordoni M.**, Persichillo M.G., Vercesi A., Bischetti G.B., Chiaradia E., Bassanelli C., Vergani C., Valentino R., Bittelli M., Chersich S. (2015). *Analisi del ruolo dei vigneti sulla stabilità di versante in un'area soggetta a frane superficiali*. In: Munafò M., Sallustio L., Salvi S., Marchetti M. (Eds.), *Convegno Recuperiamo Terreno-Atti sessione poster*, Vol. 1, 232-239.
5. Valentino R., Meisina C., **Bordoni M.**, Zizioli D., Bittelli M. (2014). *Processi di interazione suolo-atmosfera su un pendio soggetto a frane superficiali: un caso di studio nell'Oltrepò Pavese*. In: *Incontro Annuale Ricercatori di Geotecnica - IARG 2014*, Chieti 14-15-16 luglio 2014, pp. 6.
6. Meisina C., **Bordoni M.**, Zizioli D., Chersich S., Valentino R., Bittelli M. (2014). *Soil-atmosphere interaction in a slope affected by shallow landslides: an example in Northern Italy*. In: Khalili N., Russell A., Khoshgalb A. (Eds.), *Unsaturated Soils: Research & Applications*, Vol. 2, 1409-1416. Scopus code: 2-s2.0-84901606804.

Abstracts in non peer-reviewed journals

1. **Bordoni M.**, Boni R., Meisina C., Colombo A., Lanteri L., Zucca F. (2016). *Multi-sensor SAR data for landslide inventory updating: the case study of Piemonte Region*. *Rendiconti Online della Società Geologica Italiana* 40, suppl. 1, 693.
2. **Bordoni M.**, Meisina C., Valentino R., Bittelli M., Musetti M., Persichillo M.G. (2016). *Preliminary results of continuous monitoring of a slope with clayey soils prone to shallow landslides*. *Rendiconti Online della Società Geologica Italiana* 40, suppl. 1, 718.

3. **Bordoni M.**, Meisina C., Valentino R., Bittelli M., Bischetti G.B., Vercesi A., Chersich S., Persichillo M.G. (2016). *A multidisciplinary methodological approach for slope stability of an area prone to shallow landslides*. Geophysical Research Abstracts, Vol. 18, 13th EGU General Assembly.
4. Meisina C., **Bordoni M.**, Bischetti G.B., Vercesi A., Chiaradia E., Cislighi A., Valentino R., Bittelli M., Vergani C., Chersich S., Persichillo M.G., Comolli R. (2016). *Effect of grapevine root density and reinforcement on slopes prone to shallow slope instability*. Geophysical Research Abstracts, Vol. 18, 13th EGU General Assembly.
5. Persichillo M.G., Meisina C., Cavalli M., Crema S., **Bordoni M.** (2016). *Understanding the relationship between sediment connectivity and spatio-temporal landscape changes in two small catchments*. Geophysical Research Abstracts, Vol. 18, 13th EGU General Assembly.
6. **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2014). *Comparison between monitored and modeled pore water pressure and safety factor in a slope susceptible to shallow landslides*. Geophysical Research Abstracts, Vol. 16, 11th EGU General Assembly.
7. Meisina C., **Bordoni M.**, Vercesi A., Vergani C., Bassanelli C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2014). *Root strength evaluation on vineyards in an area susceptible to shallow landslides: preliminary results*. Geophysical Research Abstracts, Vol. 16, 11th EGU General Assembly.
8. **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2013). *Determination of shallow landslides triggering factors and susceptibility through field monitoring in an area of Oltrepo Pavese*. In Geitalia 2013, IX Forum Italiano di Scienze della Terra, Pisa 16-18 settembre 2013. Epitome 2013, 155.
9. Meisina C., Zizioli D., **Bordoni M.**, Valentino R., Bittelli M., Chersich S. (2013). *Monitoring of a slope affected by shallow landslides: preliminary results*. Geophysical Research Abstracts, Vol. 15, 10th EGU General Assembly.
10. Zizioli D., Meisina C., Zucca F., **Bordoni M.**, Notti D., Pellegrini L., Remondino F., Gamba P. (2013). *Rainfall-triggered shallow landslide mapping through Pleiades images*. In Geitalia 2013, IX Forum Italiano di Scienze della Terra, Pisa 16-18 settembre 2013. Epitome 2013, 191.

Abstracts in conference proceedings

1. **Bordoni M.**, Cislighi A., Meisina C., Bischetti G.B. (2016). *The role of cultivated grapevines on slope stability*. 4th International Conference on Soil Bio- and Eco-Engineering Book of Abstracts, Sidney, Australia, 9.
2. **Bordoni M.**, Meisina C., Vercesi A., Bischetti G.B., Vergani C., Bassanelli C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2014). *Valutazione del rinforzo radicale operato da viti in un'area dell'Oltrepo Pavese: primi risultati*. Proceedings of Dissesto Idrogeologico: conservazione e fertilità del suolo, CIRIVE, Università di Milano, Riccagioia S.C.p.A., Torrazza Coste.
3. **Bordoni M.**, Meisina C., Vercesi A., Bischetti G.B., Chiaradia E., Bassanelli C., Vergani C., Valentino R., Bittelli M., Chersich S. (2014). *Grapevine roots strength in an area susceptible to shallow landslides for slope stability assessment*. In: Program and Book of Abstracts of 1st International symposium on grapevine roots, Rauscedo, Italy, 37.
4. **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. (2013). *Hydrological response of a slope susceptible to shallow landslides: a field monitoring approach*. Proceedings of 3rd Italian Workshop on Landslides, Naples, Italy.
5. Meisina C., Zizioli D., **Bordoni M.**, Valentino R., Bittelli M., Chersich S. (2013). *Continuous monitoring of a slope affected by shallow landslides in North Eastern Oltrepo Pavese (Northern Apennines, Italy) for landslide susceptibility assessment: preliminary results*. In: 8th IAG International Conference on Geomorphology, 27-31 August 2013, Paris, France, 669.

E. Editorial activity

Year 2017	Manuscript Reviewer for <i>Applied Science, Journal of Environmental Engineering and Landscape Management</i>
Year 2016	Manuscript Reviewer for <i>Journal of Hydrology, Hydrological Sciences Journal, Water</i>
Year 2015	Manuscript Reviewer for <i>Journal of Hydrology, Scientia Iranica Journal and Arabian Journal of Geosciences</i>

G. Presentation in workshops and conferences

Invited oral presentations - National conferences

1. Dissesto idrogeologico: Dissesto idrogeologico: conservazione e fertilità del suolo del suolo, 30 January 2014, Riccagioia S.C.p.A. – Torrazza Coste (PV) - **Bordoni M.**, Meisina C., Vercesi A., Bischetti G.B., Vergani C., Bassanelli C., Zizioli D., Valentino R., Bittelli M., Chersich S. *Valutazione del rinforzo radicale operato da viti in un'area dell'Oltrepo Pavese: primi risultati.*

Oral presentations - International conferences

1. Fifth International Congress on Mountain and Steep Slope Viticulture, Conegliano Veneto, Italy, 29 March-1 April 2017 - **Bordoni M.**, Persichillo M.G., Vercesi A., Meisina C. *Effects of vineyards on the stability of steep slopes.*
2. 12th International Symposium on Landslides, Naples, Italy, 12-19 June 2016 - **Bordoni M.**, Meisina C., Chersich S., Persichillo M.G., Valentino R., Bittelli M. *Monitoring of hydrological parameters for the identification of shallow landslides triggering: A case study from Northern Italy.*
3. EGU General Assembly 2014, Vienna 28 April-2 May 2014 - **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. *Comparison between monitored and modeled pore water pressure and safety factor in a slope susceptible to shallow landslides.*
4. 3rd Italian Workshop on Landslides, Naples, Italy, 24-25 October 2013 - **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. *Hydrological response of a slope susceptible to shallow landslides: a field monitoring approach.*
5. EGU General Assembly 2013, Vienna 7-12 April 2013 - Meisina C., Zizioli D., Bordoni M., Valentino R., Bittelli M., Chersich S. *Monitoring of a slope affected by shallow landslides: preliminary results.*

Oral presentations - National conferences

1. Geitalia 2013, IX Forum Italiano di Scienze della Terra, Pisa 16-18 September 2013 - **Bordoni M.**, Meisina C., Zizioli D., Valentino R., Bittelli M., Chersich S. *Determination of shallow landslides triggering factors and susceptibility through field monitoring in an area of Oltrepo Pavese.*

Poster presentations - International conferences

1. 12th International Symposium on Landslides, Naples, Italy, 12-19 June 2016 - **Bordoni M.**, Persichillo M.G., Meisina C., Chersich S., Vercesi A., Bischetti G.B., Chiaradia E.A., Cislighi A., Vergani C., Valentino R., Bittelli M., Comolli R. *The role of the vineyards on shallow landslides.*
2. EGU General Assembly 2014, Vienna, 27 April -2 May 2014 - Meisina C., **Bordoni M.**, Vercesi A., Vergani C., Bassanelli C., Zizioli D., Valentino R., Bittelli M., Chersich S., *Root strength evaluation on vineyards in an area susceptible to shallow landslides: preliminary results.*
3. IAEG XII Congress, Torino, 15-19 September 2014 - Zizioli D., Meisina C., Zucca F., **Bordoni M.**, Notti D., Remondino F., Gamba P. *Evaluation of Pleiades images for rainfall-triggered shallow landslides mapping.* - Valentino R., **Bordoni M.**, Meisina C., Zizioli D., Bittelli M., Chersich S. *Monitoring and modelling of soil-atmosphere interaction on a slope*

affected by shallow landslides.

Poster presentations - National conferences

1. Convegno "Recuperiamo terreno", Milano, 6 May 2015 - Meisina C., **Bordoni M.**, Persichillo M.G., Vercesi A., Bischetti G.B., Chiaradia E., Bassanelli C., Vergani C., Valentino R., Bittelli M., Chersich S. *Analisi del ruolo dei vigneti sulla stabilità di versante in un'area soggetta a frane superficiali.* - Chersich S., Zucca F., Meisina C., **Bordoni M.** *Un laboratorio all'aperto dedicato al suolo e al paesaggio.*
2. Geoitalia 2013, IX Forum Italiano di Scienze della Terra, Pisa 16-18 September 2013. - Zizioli D., Meisina C., Zucca F., **Bordoni M.**, Notti D., Pellegrini L., Remondino F., Gamba P., *Rainfall-triggered shallow landslide mapping through Pleiades images.*
3. IX Convegno Nazionale dei Giovani Ricercatori di Geologia Applicata, Napoli 14-15 February 2013 - **Bordoni M.**, Zizioli D., Meisina C., Bittelli M., Chersich S. *Monitoring of a slope susceptible to shallow landslides: preliminary result*

H. Conference Activities

1. X Convegno Nazionale dei Giovani Ricercatori di Geologia Applicata, Bologna, 18 February 2016 - Young Chairman of the session: "Landslides: recognition, susceptibility assessment, monitoring".

I. Awards

1. 15/02/2013: **Bordoni M.**, Zizioli D., Meisina C., Valentino R., Bittelli M., Chersich S. (2013). *Monitoring of a slope susceptible to shallow landslides: preliminary results.* IX Convegno Nazionale dei Giovani Ricercatori di Geologia Applicata, Naples, Italy – Poster. Best poster award at Premio come miglior poster presentato al Convegno Giovani Ricercatori di Geologia Applicata (AIGA 2013), Naples, Italy.

IV. TEACHING ACTIVITY

Academic Year 2016-2017

Geo-Slope application to landslides analysis. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Application of TRIGRS model for shallow landslides susceptibility. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Data-driven and physically-based methods for landslides susceptibility. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Academic Year 2015-2016

Tutor assistant of Physical Geography and Cartography course, Bachelor degree in Geological Sciences, University of Pavia.

Application of TRIGRS model for shallow landslides susceptibility. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Data-driven and physically-based methods for landslides susceptibility. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Academic Year 2014-2015

Tutor assistant of Physical Geography and Cartography

course, Bachelor degree in Geological Sciences, University of Pavia.

Application of TRIGRS model for shallow landslides susceptibility. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Data-driven and physically-based methods for *landslides susceptibility.* Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

Academic Year 2013-2014

Tutor assistant of Physical Geography and Cartography course, Bachelor degree in Geological Sciences, University of Pavia.

Monitoring of slopes susceptible to shallow landslides. Seminar in the Course of Geology Applied to Land Planning course, Master degree in Applied Geological Sciences, University of Pavia.

V. SUPERVISING ACTIVITY

Bachelor degree students

2014/2015	Ruben Pilotto	Co-Advisor of the thesis: "Identification of litho-technical units in soils prone to shallow landslides in the area of Oltrepò Pavese, north-eastern Apennines margin" - September 2015
	Alessandro Rampi	Co-Advisor of the thesis: "Inventory of the shallow landslides triggered by intense rainfall events in Oltrepò Pavese in 2014" - July 2015
2013/2014	Andrea Gianni	Co-Advisor of the thesis: "Laboratory analysis on Oltrepò Pavese soils for the reconstruction of water retention curves and of shrinkage limit" - July 2014
2012/2013	Davide Berno	Co-Advisor of the thesis: "Infiltrometric tests on eluvial-colluvial covers prone to shallow landslides of north-eastern Oltrepò Pavese" - February 2013

Master degree students

2013/2014	Marco Morandotti	Co-Advisor of the thesis: "Monitoring of a slope prone to shallow landslides in Oltrepò Pavese" - April 2014
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