

# CURRICULUM VITAE

*(Last update, October 2019)*

## Personal details and contacts

Name: Alberto Bosino

Date of Birth: 28/4/1992

City of Birth: Vigevano (PV) – Italy

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## Academic Record and Career

**-(2017-present)** PhD in Earth and Environmental Sciences (XXXIII cycles)

‘Integrative assessment of soil erosion dynamics in the Oltrepo area’.

Place: Department of Earth and Environmental Sciences, University of Pavia-Italy. Advisor: Prof. Michael Maerker

**-(2015-2017)** Master’s degree in applied Geology, 110/110 cum laude

‘A new methodology for detection and interpretation of land uplift using A-DInSAR techniques: London and South Wales Coalfield cases of study’.

Place: Department of Earth and Environmental Sciences, University of Pavia-Italy. Done in collaboration with British Geological Survey (BGS), Keyworth-UK. Advisor: Prof.ssa Caludia Meisina and Dott.ssa Roberta Boni

**-(2012-2015)** Three-year degree in Geology, 109/110

‘Historical earthquakes and generation of shaking maps in GIS’

Place: Department of Earth and Environmental Sciences, University of Pavia-Italy. Done in collaboration with European Centre for Training and Research in Earthquake Engineering (EUCENTRE), Pavia-Italy. Advisor: Prof. Francesco Zucca and Dott.ssa Emilia Fiorini

## Other experiences

-(**February-March 2019**). Fieldwork in South Africa, KwaZulu-Natal (RSA). Collaboration with the Council for Geosciences, South Africa Geological Survey - office of Pietermaritzburg. Granted by Heidelberg Academy of Sciences.

Geological and geomorphological mapping, soil description, stochastic modelling. Senior geologist: Dr. Greg Botha

-(**January-February 2018**). Fieldwork in South Africa, KwaZulu-Natal (RSA). Collaboration in The Role of Culture in Early Expansions of Humans, "ROCEEH" project, granted by Heidelberg Academy of Sciences.

Geological and geomorphological mapping, soil description, geoelectric and electromagnetic survey.

-(**March-June 2017**). Erasmus+ Traineeship, with British Geological Survey (BGS)-Natural Environmental Research Council (NERC). (Keyworth, UK).

Analysis of uplift phenomena in urban and rural contexts using A-DInSAR techniques. London and South Wales Coalfield cases of study. Supervisor: Dr. Luke Bateson and Dr. Alessandro Novellino

## Research Interests

GIS, Cartography, Geomorphology, Pedology, Remote Sensing, Engineering Geology.

## Accepted/Published Manuscript

- Maerker Michael, Schillaci Calogero, Melis Rita T., Kropáček Jan, **Bosino Alberto**, Vilímek Vít, Hochschild Volker, Sommer Christian, Altamura Flavio, Mussi Margherita (2019). Geomorphological processes, forms and features in the surroundings of the Melka Kunture Palaeolithic site, Ethiopia. *Journal of Maps* 2019, VOL. 15, NO. 2, 797–806
- **Bosino Alberto**, Omran Adel, Maerker Michael (2019). Identification, characterisation and analysis of the Oltrepo Pavese calanchi in the Northern Apennines (Italy). *Geomorphology* 340, 55-43
- **Bosino Alberto**, Pellegrini Luisa, Omran Adel, Bordoni Massimiliano, Meisina Claudia, & Maerker Michael (2019). Litho-structure of the Oltrepo Pavese, Northern Apennines (Italy). *Journal of Maps* 2019, VOL. 15, NO. 2, 382–392
- Boni Roberta, **Bosino Alberto**, Meisina Claudia, Novellino Alessandro, Bateson Luke, McCormack Harry (2018). A Methodology to Detect and Characterize Uplift Phenomena in Urban Areas Using Sentinel-1 Data. *Remote Sens.* 2018, 10, 607.

## Accepted/Published Extended Abstract

- Maerker Michael, **Bosino Alberto**, Lunini Debora, Cherici Giovanni (2019). Quantitative Assessment of Hydrological Processes and Sediment Discharge in the Northern Apennines, Italy. V all-Russian scientific conference with international participation: "Models of manifestation of erosion and channel processes in various environmental conditions". Moscow State University, Moscow, 3-6 September 2019

- Maerker Michael, **Bosino Alberto**, Bernini Alice, Cüppers Annika, Hardenbicker Ulrike (2019). Badland and gully erosion assessment using remotely sensed data, non-invasive field techniques and stochastic modelling approaches. Global Symposium on soil EROSION | FAO Hq | Rome, Italy, 15-17 May 2019

### Accepted/Published Abstract in conference

- **Bosino Alberto**, Bernini Alice, Botha Greg, Omran Adel, Pellegrini Luisa, Maerker Michael (2019). Using web-based applications to enhance traditional geomorphic mapping: a case study of the Upper Mkhomazi River basin, KwaZulu-Natal, South Africa. Congresso SIMP, SGI SOGEI, Parma 16-19 September 2019.
- **Bosino Alberto**, Bernini Alice, Maerker Michael (2019). The role of colluvial deposits in gully formation: Example of the upper Mkomazi basin, KwaZulu-Natal, South Africa. VIII ITALIAN YOUNG GEOMORPHOLOGISTS' DAYS. "Sharing experiences on geomorphological research in different morphogenetic and morphoclimatic environments" Milan & Veny Valley, 26th-28th June 2019
- Boni Roberta, **Bosino Alberto**, Meisina Claudia, Novellino Alessandro, Bateson Luke, McCormack Harry (2019). Geological interpretation of ground deformation effects after the termination of engineering works using Sentinel-1 data: the London case of study (UK). 2019 Living Planet Symposium 13-17 May 2019, MiCo - Milano Congressi Milan, Italy
- Boni Roberta, **Bosino Alberto**, Meisina Claudia, Novellino Alessandro, Bateson Luke, McCormack Harry (2018). Monitoring and characterization of the ongoing ground displacement in London (UK) using Persistent Scatterer Interferometry (PSI) data acquired by Sentinel-1 satellites. '6° Congresso Nazionale AIGA (Courmayeur, 27-29/06/2018)'.

### Supervising Activity

2017-2019: Assistant Supervisor for Master thesis in Applied Geology of: Giovanni Cherici, Debora Lunini, Alice Bernini.

2019-Present: Assistant Supervisor for Bachelor thesis in Natural Sciences of: Laura Simoncelli

### Teaching Activity

2017/2018/2019 – 12 Seminars for Lab. GIS Course (for 4° year student in Applied Geological Sciences UNIPV)

2017/2018 – 12 Seminars for Geography and Cartography Course (for 1° year students Natural Sciences UNIPV)

2018/2019 – 12 Seminars for Geopedology (for 5° year student in Applied Geological Sciences UNIPV)

### Digital Competences

Proficient user with ArcGIS, QGIS, SAGA-GIS, Corel Draw, Basis of R, Google Earth, Office suite and Internet

## Other Competences

**Geophysics:** Proficient user in Electromagnetic (EM) induction measurement with (EMP 400); Electrical resistivity tomography (ERT catena).

**Soil survey:** Colour assessment (Munsell); Ph; Suspended sediment concentration (LISST); Soil texture by hand; Granulometric Analysis in Lab.; Infiltration measurement (Amoosimeter); Aggregate stability.

## Driving License

B for the car