PERSONAL INFORMATION

Claudia Meisina

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Nationality Italy

Current Position Full Professor University of Pavia

RESEARCH INTERESTS

Summary

A) Study of the triggering mechanism of rainfall-induced landslides in different climatic and geological contexts, through the long-term hydro-mechanical monitoring of shallow soils. Shallow landslide susceptibility assessment.
B) Development and application of methodologies for the geological interpretation at different scale of satellite radar interferometric data, study of the applicability of these techniques for landslide and subsidence identification and monitoring.
C) Development and application of methodologies for subsoil geological model and for engineering geological mapping to support geohazard assessment and foundation conditions. Study of the applicability of the most used empirical correlations for soil classification and soil stratigraphy description based on CPT and CPTU.
D) Geological and geotechnical characterisation of swelling/shrinking clay soils. .

Bibliometric Indicators

SCOPUS: h-index 26, citations 2422, documents 126
Google Scholar: h-index 30, citations 3404, i10-index 66

WORK EXPERIENCE

From 01/08/2020 to today

Full Professor

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

- Engineering geology
- Slope stabilities
- Shallow landslide monitoring
- Advanced Interferometric techniques

From 2014 to 2020

Associate Professor

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

- Engineering geology
- Slope stabilities
- Liquefaction

From 1998 to 2014

Assistant Professor

University of Pavia, Italy

- Engineering geology
- Slope stabilities

From 1996 to 1998

Post-doctoral researcher

Bureau de Recherches Géologiques et Minières (Marseille – France).

- Development of a swelling/shrinkage hazard mapping methodology

EDUCATION AND TRAINING

1992 **MSc Degree in Geological Sciences with honours**
University of Pavia, Italy

1995 **Earth Science Ph.D**
University of Pavia, Italy

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPOKEN		WRITING
	listening	reading	Interaction	production	
English	C1	C1	C1	C1	C1
French	C2	C2	C2	C2	C2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

INSTITUTIONAL RESPONSIBILITIES

2005-today responsible of the Laboratory of Engineering Geology and Geotechnics of the Department of Earth and Environmental Sciences, University of Pavia

2011-today responsible of student stage, MSc Degree Applied Geological Sciences

2013-today member of the PhD School of Earth and Environmental Sciences, University of Pavia

2019-2021 vice-chairman of the Master Degree programme in Applied Geological Sciences e BSc in Geological Sciences

2021-today Deputy Director of the Department of earth and Environmental Sciences, University of Pavia

NATIONAL AND INTERNATIONAL GRANTS (as principal investigator)

2016-2019 LIQUEFACT Assessment and mitigation of liquefaction potential across Europe: a holistic approach to protect structures / infrastructures for improved resilience to earthquake-induced liquefaction disasters. Project Number: EC GA no. 700748 (Call: DRS-13-2015: Critical Infrastructure Protection). Responsible for DSTA of UNIPV (130.000 Euro).

2018-2020 ATTIV AREE Oltrepò(Bio)Diverso, finanziato da Fondazione Cariplo –Azione B2.4 - R&S Viticolo - Principal Investigator of the Action: Mitigation of hydrogeological instabilities by means of a sustainable management of vineyards. 37.000 euro.

2018-2021 ANDROMEDA A New integrateD hydROgeological Model to assEss landsliDes and flood prone Areas in Oltrepò Pavese. Research project supported by Fondazione CARIPLO (Research dedicated to hydrogeological instability 2017) (grant n°2017-0677), https://progettoandromeda.unipv.it/author/andromeda/, Principal Investigator, 199500 euro.

2019-2022 VIRECLI Precision viticulture for the regulation of vegetative-productive balances, soil protection and adaptation to climate change. FEASR – Programma di Sviluppo Rurale PSR 2014-2020 - Misura 16 – “Cooperazione” Sottomisura 16.1 coordinator of UNIPV Research Unit, 135.000 Euro.

2021-2023 DRIVE - LIFE Drought Resilience Improvement in Vineyard Ecosystems. LIFE Environment and Resource Efficiency LIFE19 ENV/IT/000035. Responsible of the UNIPV Research Unit, (173.602 Euro).

2020-2024 RESERVOIR Sustainable groundwater RESources managEment by integrating eaRth observation deriVed monitoring and flOw modelIng Results, Partnership for Research and Innovation in the Mediterranean Area, PRIMA SECTION 1 RIA Sustainable groundwater management in water-

stressed Mediterranean areas. Principal Investigator (1.240.000 Euro).

TEACHING ACTIVITY

Engineering Geology: Bachelor degree in Engineering for Environment and Territory, Bachelor degree in Earth Sciences

Engineering Geology, Landslide Hazard and Risk: MSc degree Civil Engineering For Natural Hazard Mitigation Of Risk From Natural Hazards

Applied geology to environmental sustainability, MSc degree in Geosciences for sustainable development

Supervisor of more than 100 M.Sc theses.

Supervisor of 10 Ph.D theses at University of Pavia.

ORGANIZATION OF SCIENTIFIC MEETINGS

- 2014 Convener of the Session 2.27: Prediction methods for rainfall triggered landslides XII International, IAEG Congress, Torino 15-19 September 2014.
- 2018 Congresso Società Geologica Italiana – SIMP "Geosciences for the environment, natural hazard and cultural heritage" Catania, 12-15 September 2018 – S 34. Monitoring of deformation of structures and ground surface displacements.
- 2019 Convener at IABSE Symposium 2019 Guimarães Towards a Resilient Built Environment - Risk and Asset Management March 27-29, 2019, Guimarães, Portugal
- 2022 Member of the organizing Committee of CPT22, Bologna, Italy, June 2022
- 2023 convener in the WLF6 session Land use and slope management practices with landslide occurrence: past, recent and future challenges and adaptation strategies
- 2024 convener in the EGU 2024 sessions: HS8.2.1 – Groundwater management in the context of global change: Integrating innovative approaches

FURTHER INFORMATION

Editorial Boards

- 2018: Guest Editor Special Issue "Earth Observations to Support the Management of Groundwater Level Changes Impacts" Geosciences
- 2019: Lead Guest Editor Special Issue di Geofluids “Advances in Shallow Landslide Hydrology and Triggering Mechanisms: A Multidisciplinary Approach”
- 2019-2020: Guest Editor Remote Sensing Special Issue - Earth Observations for Land Subsidence Identification, Monitoring and Their Contribute to Modeling.
- 2020-2021: Guest Editor Water Special Issue “Rainfall-Induced Shallow Landslides Modeling and Warning”
- 2020-2021: Guest Editor Remote Sensing Special Issue “SAR Imagery for Landslide Detection and Prediction”
- 2020-2021: Guest Editor [Water] Hydrological Modeling Research for Rainfall-induced Landslides -
- Since 2019: Member of the Editorial Board of Remote Sensing

Memberships

- 2015-2018 Member of the executive board of the italian national group of the International Association for Engineering Geology and the Environment (IAEG)
- 2015-2021: Secretary of the Italian Association of Engineering Geology (AIGA)
- From 2019 Member ad Department of Earth and Environmental Sciences of the International Consortium on landslides
- Since 2019 Member of the executive board of SIGEA – Regione Lombardia
- From 2022 Member of LandAware the international network on Landslide Early Warning Systems

Evaluation of research results

member of expert committee : ResEau 2 Production des connaissances et appuis institutionnels pour une gestion intégrée des ressources en eau au Tchad, 7F-07801.02, financed by Bureau de Coopération Suisse au Tchad. 1/11/2019 – 31/08/ 2021,