

Chiara Colombero

PhD – Earth Sciences

Fixed-term research assistant (RUTDa)

Date of birth: 18/08/1988

Nationality: Italian



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RESEARCH TOPICS

Applied Geophysics, Seismology, Engineering Geology and Rock Mechanics

RESEARCH ACTIVITY

Passive seismic methods for rock-mass, landslide and glacier monitoring: ambient seismic noise and microseismicity analyses.

Acquisition and processing of geophysical data for engineering geology, hydrogeological investigations, environmental engineering, archaeological research, geothermal processes...

TEACHING ACTIVITY

Innovation Lab for Climate Change/Teaching assistant in Applied Geophysics, Exploration Geophysics and Geophysics (BD)

EDUCATION

PhD

@ Doctoral School of Sciences and Innovative Technologies (UNITO)

Thesis in Applied Geophysics: "MICROSEISMIC STRATEGIES FOR CHARACTERIZATION AND MONITORING OF A POTENTIALLY UNSTABLE ROCK MASS"

March 2017

MD in Environmental and Engineering Geology

@ Department of Earth Sciences (UNITO)

December 2012

BD in Geological Sciences

@ Department of Earth Sciences (UNITO)

LANGUAGES

Italian, English, French

Previous Activities

July 2017-March 2018

Post-Doc Research Fellow @ Department of Earth Sciences (UNITO): Site and lab geophysical characterization of Mexican geothermal reservoirs within the GEMex project (H2020-LCE-2016-RES-CCS-RIA)

September 2016

Visiting research PhD student @ Rock Mechanics Laboratory, University of Portsmouth (UK) – *acquisition and processing of AEs recorded during triaxial deformation of granite samples under temperature constraints.*

February-November 2015

Visiting research PhD student @ ISTERre, University of Grenoble (France) – *Spectral analysis and cross-correlation of ambient seismic noise for monitoring purposes; modal/thermal analysis of unstable rock masses; propagation of surface waves in fractured media*

Latest publications

Colombero C., Baillet L., Comina C., Jongmans D., Larose E., Valentin J. and Vinciguerra S. (2018): *Integration of ambient seismic noise monitoring, displacement and meteorological measurements to infer the temperature-controlled long-term evolution of a complex prone-to-fall cliff.* GJI, 213(3), 1876-1897. DOI: 10.1093/gji/ggy090

Colombero C., Comina C., De Toma E. and Godio A. (2019): *Ice Thickness Estimation from Geophysical Investigations on the Terminal Lobes of Belvedere Glacier (NW Italian Alps).* Remote Sensing, 11(7): 805. DOI: 10.3390/rs11070805

Colombero C., Elia D., Meirano V. and Sambuelli L. (2019): *Magnetic and radar surveys at Locri Epizephyrii: A comparison between expectations from geophysical prospecting and actual archaeological findings.* Journal of Cultural Heritage, 11 pp. DOI: 10.1016/j.culher.2019.06.012

Colombero C., Comina C. and Socco L.V. (2019): *Imaging near-surface sharp lateral variations with surface-wave methods — Part 1: Detection and location.* Geophysics, 84(6), EN93-EN111. DOI: 10.1190/GEO2019-0149.1



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