Luca Fallati

Date of birth: 06/01/1986

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CONTACT

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ABOUT ME

Luca Fallati currently carries out his activity as a fixed-term researcher (RTDa SSD GEO04) at the Department of Environmental and Earth Sciences of the University of Milan-Bicocca.

During his university training and research experience, Dr Fallati had the opportunity to investigate the "Environmental System" by analysing the elements and physical processes responsible for the genesis and evolution of land and seafloor landforms in climatically and tectonically unstable areas, with particular reference to the study of the modifications induced by climate and environmental changes underway. His research has focused on using new technologies to acquire and process geospatial data in fragile environments characterised by climatic, anthropic and tectonic impacts. Particular interest was devoted to the use of drones for high-resolution mapping of terrestrial and coastal environments in equatorial/tropical, Mediterranean and sub-polar climatic zones. These activities produced and analysed high-resolution multiscalar and orthomosaic digital terrain models using innovative imaging techniques, such as Deep Learning and Object-Based Image Analysis (OBIA). Parallel to these activities, he has developed underwater photogrammetry skills to realise three-dimensional precision surveys in submerged environments notoriously sensitive to environmental and climatic changes in progress: tropical coral reefs, Mediterranean coral and continental margins characterised by the presence of gas and fluid emissions from the bottom (i.e .: cold seeps). This activity was developed by acquiring high-resolution images and/or videos through scuba diving or using Remotely Operated Vehicles (ROV), including the latest generation.

WORK EXPERIENCE

CURRENT – Milano, Italy

University research assistant
University of Milan-Bicocca