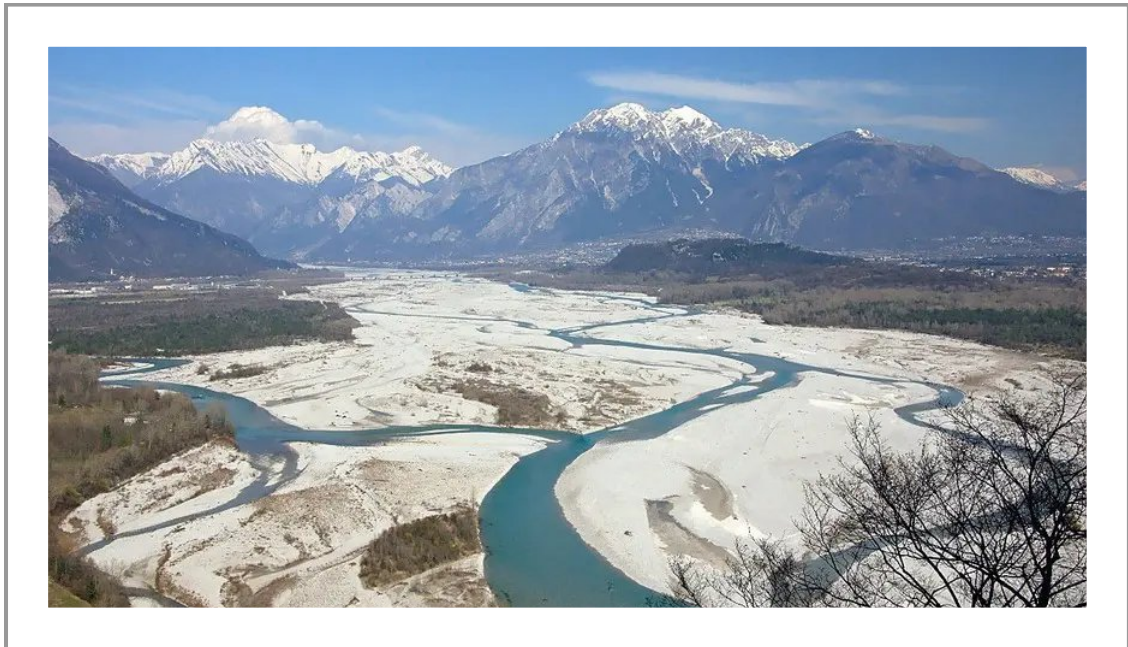


## **Fluid dynamics and seismic signals: advancing flash floods detection and characterization for Early Warning**

*(Proposer: Prof. Jacopo Boaga, Dr Piero Poli, Prof. Matteo Picozzi)*

The PhD program will analyse the frontiers of environmental seismology, in particular for the monitoring of rivers activity. The candidate will be involved in the design, installation and data analysis of a temporary network of seismic stations to monitor signals from flash floods and bedload transport phenomena. The setup will be tested in the framework of an early warning activity integration, in order to prevent damages caused by intense precipitation in mountain environment. The candidate will be involved in field activities, data processing and dissemination. The PhD activities will be carried out between the Department of Geosciences of the University of Padova and the Centre for Seismological Research of the OGS, Udine, Italy.



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