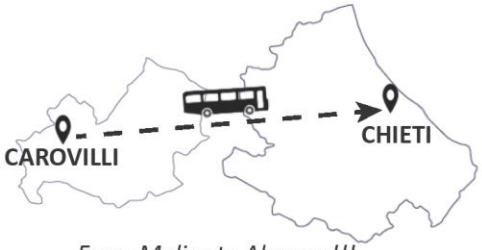


From Molise to Abruzzo!!!

Personal Information

Alessio Testa
16/12/1992

Education and Training:

- *Master's Degree in Geological Sciences and Technologies at "G. D'Annunzio" - Degree Mark: 110 cum laude (Full Marks with Honors) - 11/05/18*

Studentships awards:

- "scienza oltre l'emergenza" - (2017) - Società geologica italiana;
- *"Rilevamenti gologici nelle aree terremotate di Visso e Ussita" - (2018) - DiSPuTer;*
- *"Analisi e gestione di dati geologici per la messa a punto di procedure e metodologie di di microzonazione sismica di livello avanzato" - (2019) - DiSPuTer.*

Summer-schools and Conferences:

- *SGI-SIMP - Catania 2018*
- *INQUA International Summeschool on Active Tectonics and Tectonic Geomorphology - Prague Sept. 2019*

Research and Pubblications:

- **Testa A.**, *Boncio P., Di Donato M., Mataloni G., Brozzetti F., Cirillo D., (2019).*

GFTM

Mapping the geology of the 2016 Central Italy earthquake fault (Sibillini Mountains): geological details on the Cupi – Ussita and Mt. Bove – Mt. Porche segments and overall pattern of coseismic surface faulting. Geological Field Trip and Map, Soc. Geol. It https://doi.org/10.3301/GFT.2019.03

- *Brozzetti F., Boncio P., Cirillo D., Ferrarini F., de Nardis R.,* **Testa A.**, *Liberi F., Lavecchia G. (2019). High resolution field mapping and analysis of the August – October 2016 coseismic surface faulting (Central Italy Earthquakes): slip distribution, parameteriz ation and comparison with global earthquakes. Tectonics doi:10.1029/2018TC005305*

AGU American Geophysical Union

Interests and Hobbies:

- *Mountain sports*
- *Nature Photography*
- *Travel*

Fault Displacement Hazard Analysis (FDHA) of Normal Faults (Case studies from the Italian Apennines)

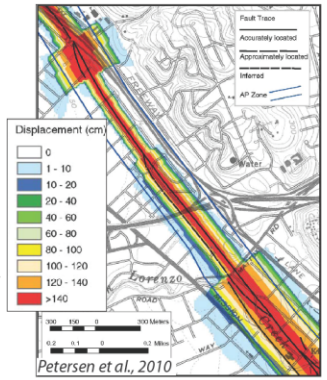
FDHA:

Topographic surface displacement during a strong earthquake. In urban environment it could cause building dislocations, damages or tilting.

N.B.
All of these approaches need detailed Earthquake Geology of the fault

Approaches

- **Zoning and Avoidence:** Land Planning, on fault dislocation.
- **Site Approach:** Existing Buildings and facilities, distributed faulting.
  - **Deterministic:** Maximum expected EQ
  - **Probabilistic:** Probability of exceedance of displacement level; Probability of distributed faulting

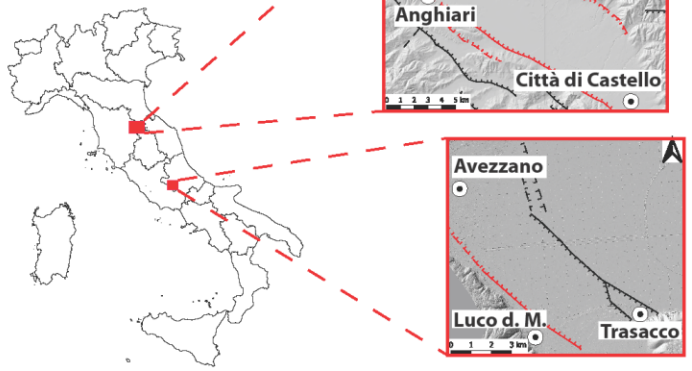


Main Aims:

Application of probabilistic approach to large (urban) area:

- **Applying -->** Displacement attenuation relationships from Fiia Nurminen PhD;
- **Processing --> NEW** attenuation relationships of distributed faulting on bedrock VS soft soil.

Case Studies:



Anghiari Fault *(Tuscany)*

- *Poorly studied active normal fault;*
- *Not known historical earthquakes;*
- *Historical town crossed by the fault;*
- *Dam nearby the fault.*

Luco dei Marsi Fault *(Abruzzi)*

- *Better defined area;*
- *Large city involved (Avezzano);*
- *Large Historical earthquake (1915).*

Study Abroad: IPGP (Paris) + ..to be decided