

4) Title*: *Inversion of seismic noise measurements aimed for seismostratigraphy characterization of the Norcia Basin.*

Name of the **supervisor:** *Maurizio Ercoli, Massimiliano Porreca* Name(s) of a **potential co-supervisor(s):** **Giuseppe Di Giulio, Maurizio Vassallo**

Prospective **assistance** in the supervision: *Field Activity in data Acquisition, Processing and Interpretation.*

Prerequisites based on specialization or specific compulsory courses or (if any): *Applied Geophysics. Good attitude in the use of Geophysical - GPS - GIS softwares and skills in data processing and interpretation.*

Brief **description** of the planned research and references if needed, including the 1) **objectives**, 2) the **study area** and 3) the **research methods** foreseen: *The thesis aims to determine and reconstruct, through passive seismic data analysis and inversion of H/V curves, the main geological/sedimentary seismic interfaces located at the Norcia basin. Advanced data processing and inversion constrained with the geological knowledge of the area and improvement of the velocity models on the area. References available.*