

ROMA CHIAMA ROMA

Terza edizione
04 Febbraio 2026
9:15-17:45

Aula E Lungotevere Dante 376-378

I dottorandi in Scienze della Terra delle due Università si incontrano in due giornate di confronto scientifico, con presentazioni orali e poster



4 FEBRUARY – SCIENTIFIC PROGRAM

*(12-minute presentation + 3-minute discussion)

Session 1 – Materials, Sensors, and Analytical Methods for Environment and Cultural Heritage

Ore 9:15 – **Lorenzo Animalì**: *Innovative characterization and use of biochar for sustainable water treatment* (Roma Tre)

Ore 9:30 – **Ilaria Rocchetti**: *Characterization and use of anti-radon barriers for indoor radon mitigation* (Roma Tre)

Ore 9:45 – **Greta Peruzzi**: *Plasmonic hybrids for gas sensing in museum environment: high sensitivity detection driven by nanoparticle functionalization* (La Sapienza)

Ore 10:00 – **Susanna Milana**: *Archaeometric investigation of metallic and ceramic artifacts from Southern Etruria: preliminary results toward the reconstruction of technological evolution* (La Sapienza)

Ore 10:15 – **Elisa Villani**: *Nuclear magnetic resonance for monitoring waterlogged wood consolidation* (La Sapienza)

Ore 10:30 – **Sara Capriotti**: *AI-based petrographic classification of ancient Levantine pottery using Dynamic Vision Transformers* (La Sapienza)

10:45–11:30 – Coffee Break and Poster Session

Session 2 – Magma Processes, Volcanic Systems, and Eruption Dynamics

Ore 11:30 – **Carminè Magri**: *A new model for predicting peralkaline magmas viscosity* (Roma Tre)

Ore 11:45 – **Emanuele Quinzi**: *Understanding the Dynamics of Basaltic Explosive Eruptions: Mechanisms, Processes, and Implications* (Roma Tre)

Ore 12:00 – **Camilla Calagreti**: *Influence of magma flow on the crystallization kinetics of basalts* (Roma Tre)

Ore 12:15 – **Raffaella Pavese**: *Magma storage conditions as key factors in the genesis of pure Plinian vs. caldera-forming eruptions: Experimental constraints* (La Sapienza)

Ore 12:30 – **Giada Alfonsi**: *Birth and growth of a volcanotectonic fault during the current volcanic unrest at Campi Flegrei caldera (Italy)* (Roma Tre)

Ore 12:45 – **Francesca Godono**: *Integrating conceptual modeling and geothermal evolution of the Sabatini Volcanic Complex (central Italy)* (Roma Tre)

13:00–14:00 – Lunch Break

Session 3 – Fault Mechanics, Seismic Processes, and Earthquake Physics

Ore 14:00 – **Luca Coppola**: *Fluid injection-induced fault reactivation: healing vs. a-b* (La Sapienza)

Ore 14:15 – **Michele Mauro**: *Frictional healing of anhydrite-bearing faults imaged by ultrasonic waves* (La Sapienza)

Ore 14:30 – **Michele De Solda**: *Observability, State Variables, and the Epistemology of Earthquake Prediction: Insights from Laboratory Seismic Imaging* (La Sapienza)

Ore **14:45** – **Simona Guastamacchia**: *Subduction megathrust study through the lens of analogue seismotectonic modelling: analogue materials and novel monitoring approaches* (Roma Tre)
 Ore **15:00** – **Gabriele Paoletti**: *Investigating the evolution of fault zone properties during the seismic cycle using deep learning and ray path analysis* (La Sapienza)
 Ore **15:15** – **Giovanni Guglielmi**: *Transient embrittlement of ductile rock explains distributed seismicity beyond major faults* (La Sapienza)

15:30–16:30 – Poster Session and Break

Session 4 – Earth System Processes: Minerals, Fluids, Tectonics, and Paleoenvironment

Ore **16:30** – **Fabio Feriozzi**: *Tectonic evolution of the eastern Adria margin at the Dinarides-Hellenides junction* (Roma Tre)
 Ore **16:45** – **Francesca Rossi**: *Fault-zone structure and fluid migration shaped aftershock distribution during the L'Aquila 2009 seismic sequence* (La Sapienza)
 Ore **17:00** – **Francesco Mosconi**: *On the Dynamics of Fluid-Induced Microearthquakes* (La Sapienza)
 Ore **17:15** – **Adriana Damato**: *Long-Term Hydrogeochemical monitoring to assess groundwater-seismicity relationship in the Matese Area, Central-Southern Italy* (La Sapienza)
 Ore **17:30** – **Riccardo Luppi**: *From multicolored to Paraiba: the role of Mn in heat-induced color change in Cu-bearing tourmalines* (La Sapienza)

Poster Session

(A0; Vertical format)

1. **Francesca Iezzi**: *Volcanic vortex rings and puffing degassing* (La Sapienza)
2. **Sofia Ruggeri**: *Geology in the Energy Transition: an Integrated Study of an Off-shore Wind Farm in the Central Tyrrhenian Sea - Civitavecchia Coast* (Roma Tre)
3. **Teresa Oreade Grillo**: *High-temperature deformation and failure of welded deposits: Implication for deposit-derived pyroclastic density currents* (Roma Tre)
4. **Eleonora Cerafogli**: *Human–environment dynamics at the Basilica of the Holy Sepulcher: a multidisciplinary archaeobotanical study through carpological, anthracological, and palynological analyses* (La Sapienza)
5. **Giulia Boccacci**: *Heavy-Weight Buildings as Passive Conservation Solutions: Evidence from a High-Latitude Case-Study* (La Sapienza)
6. **Riccardo Tomasini**: *Diachronic reconstruction of human-environmental interactions at the Unesco World Heritage Site of Butrint: A new archaeobotanical perspective from Albania* (La Sapienza)
7. **Rossana Napolitano**: *Set up of a comprehensive framework for geo hydrological hazard and risk assessment at the large scale and addressed to statutory purposes* (La Sapienza)
8. **Martina Orlando**: *Temporal Variations of the b-value Before Recent Major Earthquakes in China* (Roma Tre)
9. **Simona Marano**: *Integrating passive seismic monitoring and remote sensing to identify landslide instabilities from the preparedness phase to triggering* (La Sapienza)
10. **Andrea Attolico**: *Site Response Analysis during the 2016 Amatrice–Visso–Norcia Seismic Sequence* (La Sapienza)

11. **Selma Sari:** *Middle Pleistocene Differential Uplift of Sedimentary Basins in the Southern Central Anatolian Plateau: Insights from the Mut and Manavgat Basins* (Roma Tre)
12. **Marco Bianchini:** Spatial and Morphometric analysis of gravitational instabilities along the Tyrrhenian and Ionian continental margins of Calabria (La Sapienza)
13. **Federico Artegiani:** *Early Cretaceous Oceanic Anoxic Events (Oaes) in shallow-water carbonate platforms: Evidence from the Carg Project 390 – Frosinone (Ernici Mts., Central Italy)* (Roma Tre)
14. **Costanza Borgognone:** Palynological analysis of the paleolake of Valle di Castiglione (Rome): an insight into the Last Interglacial (La Sapienza)
15. **Leonardo Barbini:** *Digital reconstruction of the endocranial anatomy of species of the Cenozoic European crocodylian *Diplocynodon** (La Sapienza)
16. **Federico De Sario:** *Body mass estimate of *Edaphosaurus* (Synapsida, Eupelycosauria, Edaphosauridae): comparison of the regression and volumetric methods* (Roma Tre)