

UNIVERSITÀ DI PAVIA

Corso di Dottorato in Scienze della Terra e dell'Ambiente



Two expert speakers will explore the cuttingedge applications of AI in scientific research







"Artificial Intelligence at the Service of Science"

Event moderated by **Dr. Lorenzo Goppa**





Following:

- Round table about AI & Science
- PhD Student Presentations
- Coffee break and lunch

Join us for an exciting day of learning, sharing, and networking!

Location Rooms B6/B7, via Ferrata 1







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PHD DAY - PROGRAM

9.30-9.45

Opening words

9.45-11.45

Key note & Round table about the use of AI in Scientific Research

Speakers: Federico Faroldi (Unipv), Riccardo Torre (INFN, Genova).

11.45-12.45

1st and 2nd year PhD student presentation (3 mins each)

- Climate Change in Deglaciating Alpine Basins: Impacts on Mechanisms, Rates, and Volumes of Sediment Transfer | Ananya Pandey, 40th cycle.
- Development of digital methods for the stability analysis of critical rock masses in the context of railway infrastructure | **Matteo Foletti**, 39th cycle.
- Linking the exposed belt to the buried one: the Northern Apennine front in the framework of the project CARG 160 Pavia | **Paola Bellotti**, 39th cycle.
- Study of the first continental tectono-stratigraphic phases of the Alpine Cycle in the Basque-Cantabrian area of the Pyrenees | Rudy Scarani, 40th cycle.
- Investigation into the *Hieracium tomentosum* L. group: defining an integrative approach for a taxonomic revision combining traditional taxonomy with ecological, cytological, and molecular data | **Giacomo Baldesi,** 40th cycle.
- Alpine plants under pressure: who thrives and who declines in a changing climate? | Margherita Tognela, 39th cycle.
- Native species for greening agroecosystems | Micol Orengo, 39th cycle.
- Monitoring marine soundscapes using Machine Learning techniques | Davide Michel Lelong, 40th cycle.
- Assessing the effects of anthropization on alpine amphibians and reptiles | Anna Sotta, 40th cycle.
- Impact of climate change on social dynamics and demography of alpine marmots (*Marmota marmota*) in the Gran Paradiso National Park | **Beatrice**

Masella, 40th cycle.

- Coypu Invasion: advanced population monitoring and analysis of control measures in the Lombardy region | **Chiara Del Fabbro**, 40th cycle.
- Rana temporaria in alpine lakes: ecological adaptations and impacts of introduced fish species | Giorgia Mattioli, 39th cycle.
- Amphibians at the interface: ecology and distribution from the Po Plain to the Apennines | Martino Flego, 39th cycle.



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PHD DAY - PROGRAM

12.45-14.15

Lunch break & Poster session

14.15-15.00

3rd year PhD student presentation (15 mins each) - First group

Mineral phase transitions: a tool to reveal the secrets of high pressure and

temperature faulting | Giulia Mingardi, 38th cycle.

- Microplastic pollution in the littoral environment: insights from the Mediterranean Sabellaria spinulosa (Annelida) reefs and shoreface sediments | Giusto Lo Bue, 38th cycle.
- Laboratory experiments and geochemical models for CO2 mineralization in basalts | Onat Yakisik, 38th cycle.

15.00–15.30 **Coffee break**

15.30-16.00

3rd year PhD student presentation (15 mins each) - Second group

- The *Festuca stricta/valesiaca* complex in Italy: filling in the gaps with integrative taxonomy | **Mattia Pallanza**, 38th cycle.
- Management of Bioinvasions in ports: exploring sustainable solutions to increase native biodiversity and exploit non-native fouling species | **Salvatore Coco**, 38th cycle.

16.00-16.15

Closing remarks

