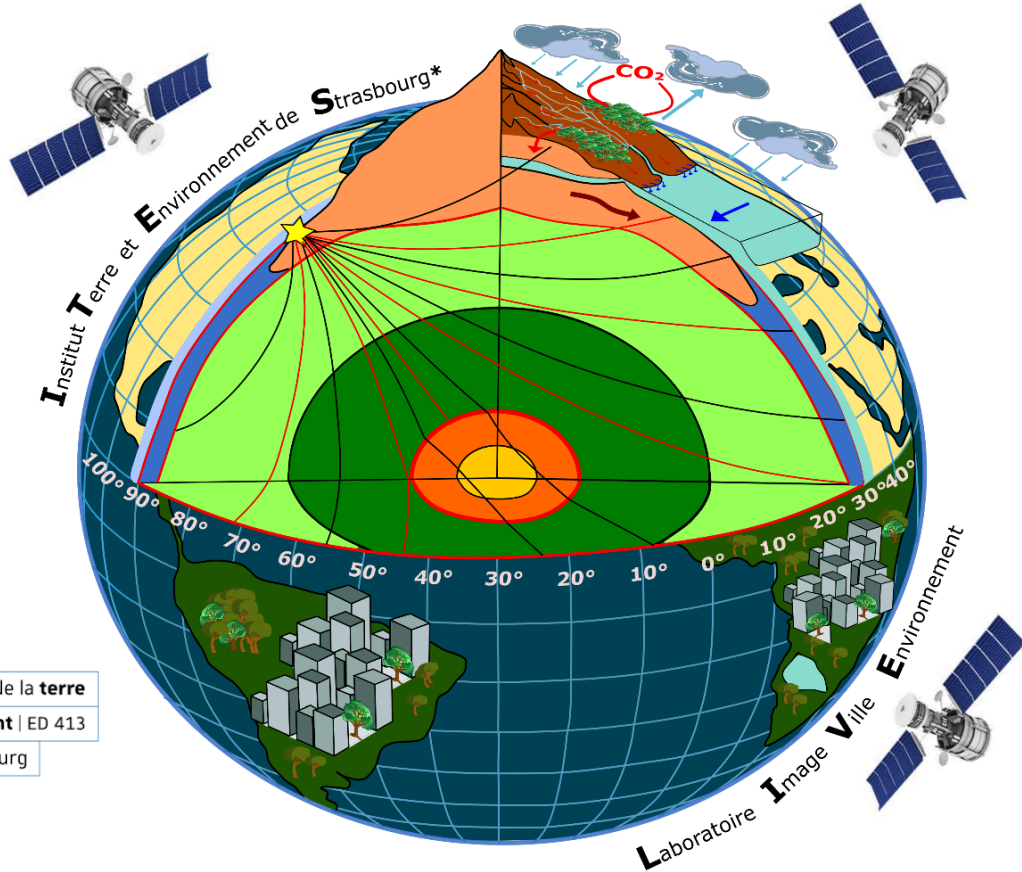



PhD Congress of ED413

L'Ecole Doctorale: Sciences de la Terre et de l'Environnement



École doctorale
 **Sciences de la terre**
et de **l'environnement** | ED 413
Université de Strasbourg



Wednesday, March 20th, 2024

CDE, 46 Bd de La Victoire

KEYNOTE SPEAKER

Sophie GIFFARD-ROISIN
ISTerre Laboratory, Grenoble
IRD Researcher

**"AI in Geoscience: Opportunities,
Challenges and Limitations"**

For all the additional information:
(scan the QR code)

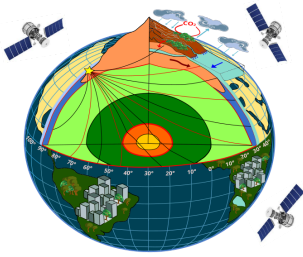
<http://eost.u-strasbg.fr/stue/>

or contact us via e-mail:

congressdesdoctorantsed413@gmail.com



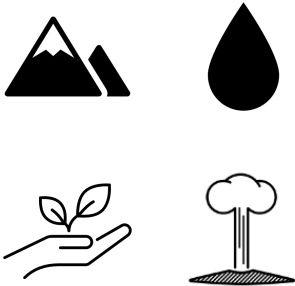
The congress in 5 points



A talk session and a poster session on the 20th of March 2024 with a total of **17 presentations!**



The perfect occasion to meet new people, share sciences and win the best oral and poster prize!



4 topics:

- Rock mechanics
- AI in Geoscience
- Sedimentology and Hydrosystems
- Clustering and Seismology



A **KeyNote** from ISTERre, Mrs **Sophie GIFFARD-ROISIN**, will do a presentation “AI in Geoscience: Opportunities, Challenges and Limitations”




For any questions do not hesitate to contact us at congresdesdoctorantsed413@gmail.com. You also will find a lot of information on the congress **website**.

Schedule of the day

Appointment at 8:50 a.m. at the room “Amphithéâtre” of the **Collège Doctoral Européen (CDE)** (46 Boulevard de la Victoire, 67000 STRASBOURG)

Keynote

We are very honored to receive **Mme Sophie GIFFARD-ROISIN**, researcher at the ISTerre (Institut des Sciences de la Terre), in Grenoble

10:45 a.m. to 11:30 a.m.	Mme Sophie GIFFARD-ROISIN
“AI in Geoscience: Opportunities, Challenges and Limitations”	

Oral presentations

The oral presentations are divided in **4 sessions**:

- Rock mechanics
- AI in Geoscience
- Sedimentology and Hydrosystems
- Clustering and Seismology

For more information, please find the detailed program in the next pages and the abstracts in the website <http://eost.u-strasbg.fr/stue/prog.html>

Poster Session

At lunch time, poster editors will be present to discuss their research project !

This session will be held from **12:15 p.m to 14:00 p.m** in the Patio space (1st floor) of the Collège Doctoral Européen (CDE) (46 Boulevard de la Victoire, 67000 STRASBOURG) . For more informations, please find the abstracts in the website <http://eost.u-strasbg.fr/stue/prog.html>

Prize for the best poster and the best presentation

After the presentations, we will count the votes for the best poster and the best presentation and give the prizes to the winners

After conference drinks and foods

Please join us at the **EOST/ITES 4th floor cafeteria** for a convivial moment. (5 rue Descartes, 67000 Strasbourg).

Session I. Rock mechanics

(from 09:00 a.m. to 10:15 a.m.)

09:00 to 09:15 a.m.	Agata POGANJ (ITES)
Alteration and strength heterogeneity distribution of the volcanic dome at La Soufrière de Guadeloupe (Eastern Caribbean)	

09:15 to 09:30 a.m.	Lingai GUO (ITES)
An efficient Crouzeix-Raviart finite element model for coupled hydro-mechanical processes in variability saturated porous media	

09:30 to 09:45 a.m.	Rashad ABBASOV (ITES)
Uncertainty analysis for rainfall-induced landslide models	

09:45 to 10:00 a.m.	Ali MOHAND-SAÏD (ITES)
Joint Inversion of electromagnetic and electrical data	

10:00 to 10:15 a.m.	Émile SERRA (ITES)
Vp/Vs tomography in South-East Asia using SOLA-Backus-Gilbert inversion	



**Take a break (coffee, tea, pastries)
from 10:15 to 10:40 a.m.**

Doctoral School Director speech. M Damien LEMARCHAND

(from 10:40 to 10:45 a.m.)

Session II. AI in Geoscience

(from 10:45 to 11: 30 a.m.)

Keynote. Mme Sophie GIFFARD-ROISIN

(from 10:45 a.m. to 11:30 a.m.)

10:45 a.m. to 11:30 a.m.	Mme Sophie GIFFARD-ROISIN
“AI in Geoscience: Opportunities, Challenges and Limitations”	

11:30 to 11:45 a.m.	Joachim RIMPOT (ITES)
Self-Supervised Learning Strategies for Clustering Continuous Seismic Data	

11:45 a.m. to 12:00 p.m.	Charlotte GROULT (ITES)
Toward exhaustive instrumental catalogs from massive seismological data and machine learning : application to the European Alps	

12:00 to 12:15 p.m.	Camille HUYNH
A complete feature set for classification of seismic sources with Distributed Acoustic Sensing (DAS) in the context of long-range monitoring	



Lunch time and poster session



(from 12:15 to 14:00 p.m.)

Join us for a snack prepared by our caterer and take the opportunity to discuss and meet the PhD students and supervisors. **Poster editors will present their work.** You can ask questions and **vote for the best posters.**

Session III. Sedimentology and Hydrosystems

(from 14:00 to 15:15 p.m.)

14:00 to 14:15 p.m.	Joé JUNCKER (LIVE)
The Po river-mouth in the 1st millennium BCE: comparative reconstruction of morpho-sedimentary dynamics with archaeological and historical chronologies (Emilia-Romagna, Italy)	

14:15 to 14:30 p.m.	Xiaowei LIU (LIVE)
Low Flow Comparison from 1956 to 2022 in the transboundary River Lauter and an Adjacent Station on the River Rhine (France/Germany)	

14:30 to 14:45 p.m.	Kari-Anne VAN DER ZON (LIVE)
Macrophyte metacommunities in man-made pond networks	

14:45 to 15:00 p.m.	Lucas MEDEIROS BOFILL (ITES)
Sedimentological control on permeability heterogeneity, and its effects in fluid-flow modelling: a case study of the Middle Buntsandstein sandstones (Upper Rhine Graben, Eastern France)	

15:00 to 15:15 p.m.	Bastien MATHIEUX (ITES)
Unravelling the drainage divide migration of a mid-altitude mountain range in a low-deformation context: Integrating morphometry and cosmogenic nuclides in the Vosges Mountains (NE France)	



**Take a break (coffee, tea, pastries)
from 15:15 to 16:00 p.m.**

Session IV. Clustering and Seismology
(from 16:00 to 16:45 p.m.)

16:00 to 16:15 p.m.	Hamza KRISTOU (ITES)
Active deformation in Tunisia from GNSS measurements	
16:15 to 16:30 p.m.	Rachit GAUTAM
Generation of High-Resolution Seismic Catalog Associated With the Production Phase 2021 - 2022 at the Balmatt Geothermal Site	
16:30 to 16:45 p.m.	Houssam OUSMAN
Multidisciplinary approach (geology, satellite imaging, geophysics) to evaluate the geothermal potential of the Aols Lakes region, Republic of Djibouti	



Prize for the best poster and the best presentation

(from 16:45 to 17:15 p.m.)

We will count the votes for the best poster and the best presentation and give the prizes to the winners

After conference drinks and foods

(from 17:30 p.m. to 20:00 p.m.)

Please join us at the **EOST/ITES 4th floor cafeteria** for a convivial moment. (5 rue Descartes, 67000 STRASBOURG).