



Du  
**05**  
SEPT.  
2022  
au  
**09**  
SEPT.  
2022

09h00  
-  
18h00

## **2022-T3 GEOMETRY & STATISTICS IN DATA SCIENCES**

**~~GESDA Introductory School~~ - IESC Cargèse, Corsica**

INSCRIPTION

### **GESDA Introductory School**

**5-9 September 2022 - IESC Cargèse, Corsica**

Specifically turned towards Masters/PhD students and young researchers, this Summer school will introduce the main tools and concepts related to IHP's thematic quarter on Geometry and Statistics in Data Sciences.

The objective of the Introductory School is to lay the theoretical foundations for the rest of the Quarter, both in statistics or geometry and topology. Its ambition is to benefit students from Probability theory, Statistics, fundamental Mathematics.

URL of the page: <https://www.ihp.fr/fr/agenda/gesda-introductory-school-iesc-cargese-corsica>

This introductory school is built around three courses (8h each), including practical sessions with Python libraries.

## Program

- Stéphanie Allasonnière (Université de Paris) and Stanley Durrleman (Inria & Brain Institute)
  - Introduction to geometric statistics
    - Lecture 1
    - Lecture 2
    - Lecture 3
    - Lecture 4 - part 1
    - Lecture 4 - part 2
- Mathieu Carrière (Inria Sophia) and Marc Glisse (Inria Saclay)
  - Basic concepts in topological data analysis
    - Course material
- Christophe Giraud (LMO, Orsay)
  - Introduction to high-dimensional statistics
    - Course material

## Application procedure

### Application to the school is now closed

After validation of the application by the organizers, the candidate will receive an email.

Registration to the school (including accommodation and meals) is free.

## Application procedure for students

Master students, PhD students and post doc students must upload a resume/CV (pdf format). PhD students must also upload a letter of support from their supervisor (pdf format). These documents can be uploaded in the "abstract" field of the [application form](#).

Financial support for transportation is available for students.



## **INSTITUT HENRI POINCARÉ - UAR839**

Sorbonne Université / CNRS  
11 rue Pierre et Marie Curie  
75231 Paris Cedex 05

### **HORAIRES**

L'institut :

- lundi au vendredi de 8h30 à 18h,
- fermé les jours fériés.

Le musée - Maison Poincaré :

- lundi, mardi, jeudi et vendredi de 9h30 à 17h30,
- samedi de 10h à 18h,
- fermé le mercredi et le dimanche.