



## PROGRAMME, PAST

### T3-2022 Geometry and statistics in data sciences

**Start date** : 5 September 2022 - **End date** : 9 December 2022

September 5<sup>th</sup> to December 9<sup>th</sup>, 2022

**Organizers:**  
 Edite Aharari (UPM, CHU), Catherine Azaïs (UPM, Université Clermont Auvergne)  
 Frédéric Chazot (M2, INRIA), Aurélie Fischer (UPM, Université de Paris)  
 Marc Hoffmann (CEH/INRIA, Paris Dauphine)  
 Alice Le Breton (CNRS, Paris 1 Paris-Sorbonne)  
 Clément Lévy (UPM, Université de Paris), Bertrand Michel (UPM, Ecole Centrale Nantes)

**Geometry and Statistics in Data Sciences**  
 Thematic program with short courses, seminars and workshops

**IESC Introductory School in Corsica**  
 September 5<sup>th</sup> to 9<sup>th</sup>, 2022

**Non-Linear and High Dimensional Inference**  
 October 3<sup>rd</sup> to 7<sup>th</sup>, 2022

**Geometry, Topology and Statistics in Data Sciences**  
 October 10<sup>th</sup> to 14<sup>th</sup>, 2022

**Measure-theoretic Approaches and Optimal Transportation in Statistics**  
 November 21<sup>st</sup> to 25<sup>th</sup>, 2022

Program coordinated by the Centre Emile Borel (CEB) at IHP (Paris) and also accessible online.  
 Participation of postdocs and PhD students is strongly encouraged.  
 Registration is free however mandatory.

Scientific program and registration on: <https://indico.math.cnrs.fr/event/1055>  
 Deadline for financial support: March 15<sup>th</sup>, 2022  
 Contact: [projet@ihp.fr](mailto:projet@ihp.fr)

Also supported by:

CEB organization assistant: Delphine Lapeyre  
 CEB manager: Sylvie Lichnerowicz  
[www.ihp.fr](http://www.ihp.fr)

URL of the page: <https://www.ihp.fr/en/news-research-activities/t3-2022-geometry-and-statistics-data-sciences>

## Organisation

### Organisers:

Eddie Aamari, Catherine Aaron, Frédéric Chazal, Aurélie Fisher, Marc Hoffmann, Alice Le Brigant, Clément Levrard, Bertrand Michel

### Administrative, financial and logistic organisation:

Sofiia Minasian  
Contact: gesda2022@ihp.fr

### Scientific programme:

Detailed programme: <https://indico.math.cnrs.fr/category/498/>

IESC Introductory School (Corsica):

- From September 5<sup>th</sup> to 9<sup>th</sup>, 2022

Workshops:

- From October 3<sup>rd</sup> to 7<sup>th</sup>, 2022: Non-linear and high dimensional inference
- From October 10<sup>th</sup> to 14<sup>th</sup>, 2022: Geometry, topology and statistics in data sciences
- From November 21<sup>st</sup> to 25<sup>th</sup>, 2022: Measure-theoretic approaches and optimal transportation in statistics

Satellite event:

- November 8<sup>th</sup>, 2022: Half-day "Maths-Entreprises", in collaboration with AMIES, (IHP, Paris).

### Videos



**Videos of the trimester are now available on Carmin.tv**

URL of the page: <https://www.ihp.fr/en/news-research-activities/t3-2022-geometry-and-statistics-data-sciences>



### **CIMPA-CARMIN programme:**

Through the CIMPA-CARMIN programme the organisers wish to fund, with the support of the Labex CARMIN, the CIMPA and IHP, the participation of several young mathematicians from developing countries to the activities of the trimester.

Young scientists (master students soon looking for a PhD, PhD students, postdocs) meeting those criteria and interested in the topics are much encouraged to apply for a support to participate on [the CIMPA web page](#).



### **INSTITUT HENRI POINCARÉ**

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

### **TIMETABLE**

The institute:

- Monday to Friday from 8:30am to 6pm,
- closed on public holidays.

The museum - Maison Poincaré :

- Monday, Tuesday, Thursday and Friday from 9:30am to 5:30pm,
- Saturday from 10am to 6pm,
- closed on Wednesday and Sunday.

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