



## **General informations**

CIMPA School title: Statistics for health .

Country: Burundi

Official language of the school: English/French .

Dates of the School: June 14-25, 2027.

Deadline for registration of CIMPA participants: February 14, 2027.

Local co-organizer: Prof.Dr. Menedore Karimumuryango, Dean of Applied Statistic Institute.

Name and address of the host institution: Applied Statistic Institute «ISTA» of University of Burundi, Avenue de l'UNESCO n°2, Bujumbura. B.P 1550-Burundi.

Webpage of the host institution <https://www.ub.edu.bi/>

Email : [kmenedore@gmail.com](mailto:kmenedore@gmail.com)/ [menedore.karimumuryango@ub.edu.bi](mailto:menedore.karimumuryango@ub.edu.bi)

External co-organizer: Prof.Dr.Valérie GARES, INRIA Rennes, France .

Email address: [valerie.gares@inria.fr](mailto:valerie.gares@inria.fr)

Webpage: <https://vgares.perso.math.cnrs.fr/>

## **Organizing committees and members of the teaching team**

### **Organization committee**

1.Prof. Prof.Dr.Menedore karimumuryango, Dean of Applied Statistic Institute, University of Burundi

- 2.Dr. Sophie Dabo-Niang (Université de Lille de France)  
 3.Prof. Dr. Valérie GARES (Institut national de recherche en sciences et technologies du numérique (INRIA), Rennes, France)  
 4.Prof. Dr. Léonard Todjihounde, Université d'Abomey Calavi (Bénin)
- 5.Dr. Anissa Rabhi, Université Tunis El Manar, UTM  
 6.Prof. Dr. Juma Shabani, Directeur de l'École Doctorale (Université du Burundi, Burundi),  
 7.Dr. Remi Servien, INRAE

### Member of the teaching team

- 1.Prof.Dr.Valérie Gares (University of Rennes 1, France);  
 2.Prof.Dr. Freedath DJIBRIL MOUSSA (Université d'Abomey-Calavi, Benin) ;  
 3. Dr. MUNEZERO Florence, of Burundi ;  
 4.Prof.Dr.Bachir KADDAR(University of Science and Technology of Oran, Algeria);  
 5.Prof.Dr. Remi Servien (INRAE, Narbonne, France) ;  
 6. Prof.Dr. Valérie Monbet (University of Rennes 1, France);  
 7.Dr.Nkunzimana Athanase (Université of Burundi);  
 8.Audrey Lavenu (University of Rennes 1, France).

### Programme

Day 1 (Monday): Registration and Opening (07:30 – 08:30).

Week 1	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08:30-10:00	Course 1	Course 3	Course 4	Course 5	Course 1	Project
10:00-10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30-12:00	Course 2	Course 4	Course 3	Course 2	Practical 2	Project
12:00-13:30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:30-15:00	Practical 1	Practical 3	Practical 4	Practical 5	Practical 3	
15:00-16:30	Project	Project	Project	Tutorial 5	Project	

	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Saturday</b>
<b>Week 2</b>						
08:30-10:00	Course 6	Course 7	Course 8	Course 6	Project presentation	Return of foreign participants
<b>10:00-10:30</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	<b>Coffee Break</b>	
10:30-12:00	Course 7	Course 6	Course 7	Course 8	Projects presentation	
<b>12:00-13:30</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	<b>Lunch</b>	
13:30-15:00	Practical 6	Practical 7	Tutorial	Practical 8	Panel discussion	
15:00-17:00	Project	Project	Project	Project	Closing	

Course 1. Descriptive and inferential statistics

Course 2. Geographical Information System (GIS) and statistical analysis

Course 3. Time series modeling.

Course 4. Survival analysis.

Course 5. Statistical learning .

Course 6. Deep Learning and Transformer Models for Health .

Course 7. Statistical Analysis of Functional Data Applied to Health.

Course 8. Compartmental modeling in epidemiology.

