Université Paris-Saclay
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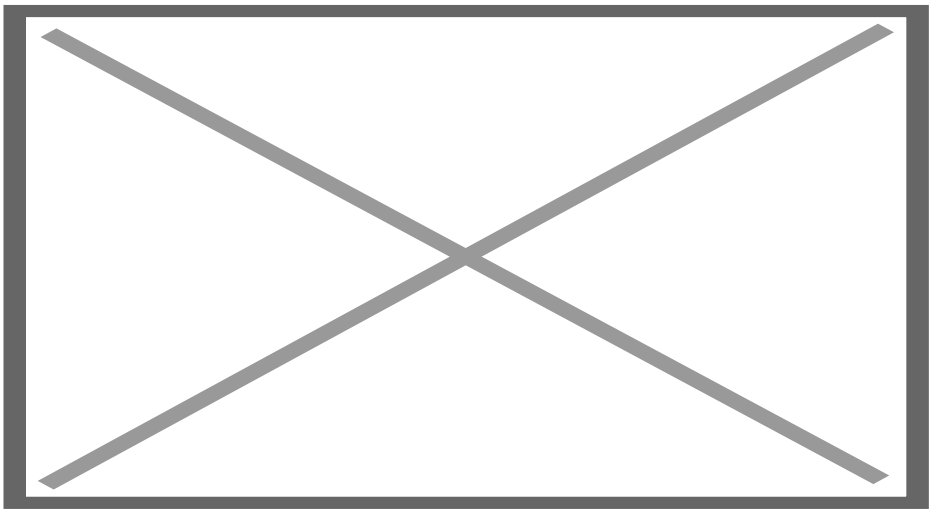
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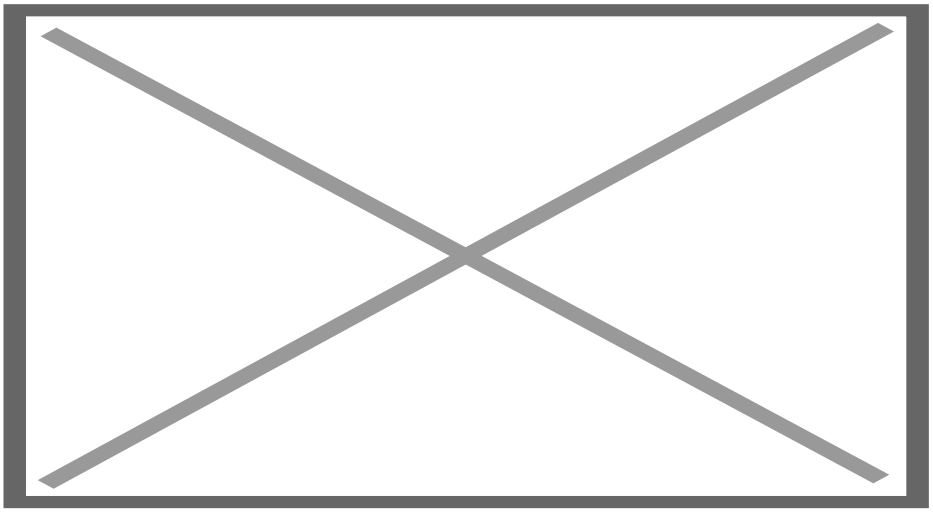
M2 Sciences des Données de Santé

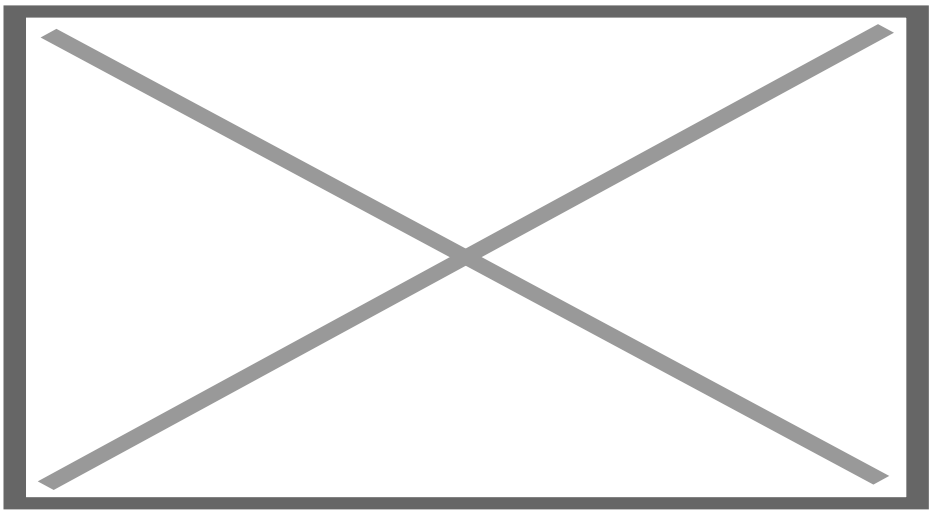
Master's degree
Specialisation Public Health
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French

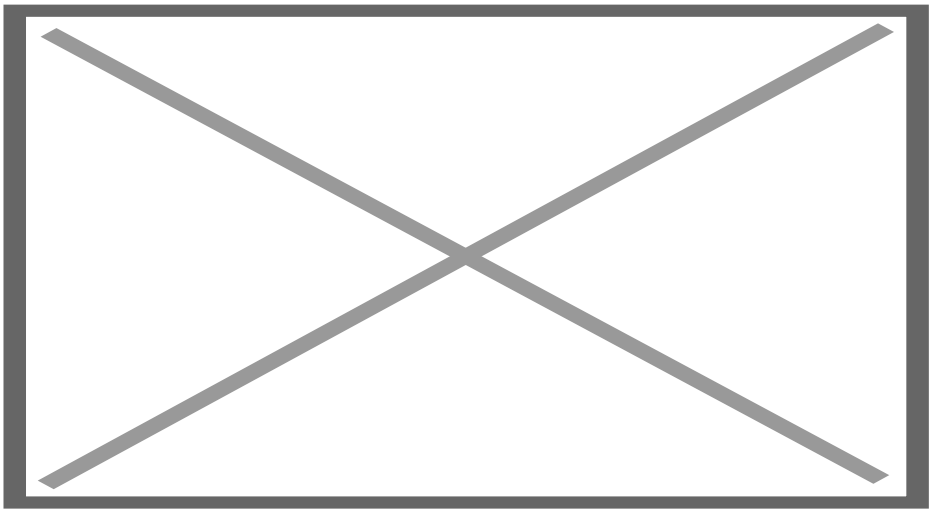
The objective of the M2 SDS program is to provide essential statistical and computational skills to manage, analyze, and interpret high-dimensional data in the field of Health, in order to address key questions in Public Health and Biomedical Sciences. Courses are taught in French.

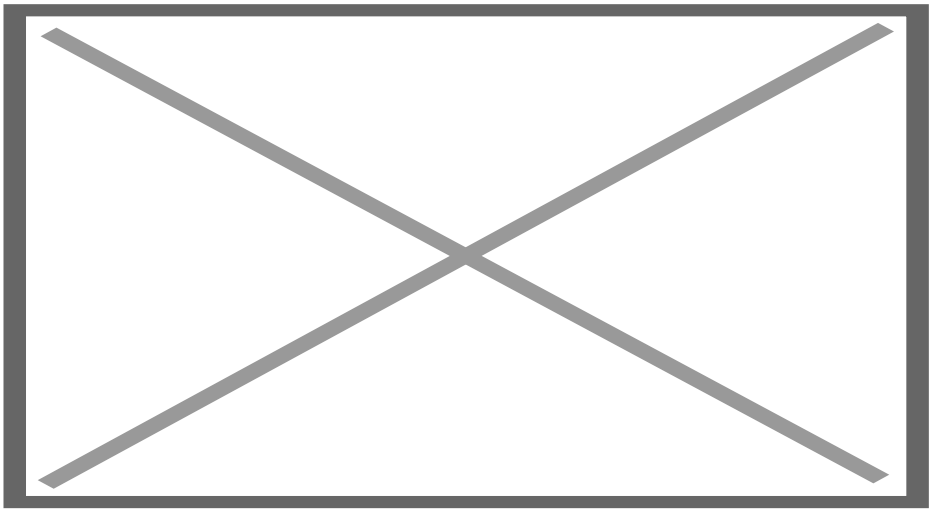
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The skills to be acquired lie at the intersection of three fields: medical informatics (databases, programming, etc.); data analysis (statistical methods, etc.); and biomedicine (genetics, genomics, biomarkers, imaging).

Upon completion of the program, students will be able to:

- Design a study using high-dimensional (big) data.
- Manage the entire process from the acquisition of raw data to extracting relevant information and interpreting it.
- Appropriately apply tools and methods from statistical modeling, machine learning, and high-dimensional decision-making.

Objectives

*****As courses are taught in French, students must have at least a C1 level in French.*****

Face à la demande croissante de professionnels dits « **Data scientist** » dans le domaine bio-médical, liée en partie à l'essor des nouvelles biotechnologies en génétique/génomique et à l'accès aux grandes bases de données épidémiologiques ou médico-administratives, le parcours M2 Sciences des Données de Santé (SDS) propose de former des étudiants désireux de **comprendre les méthodes d'analyse de données bio-médicales en grande dimension (prédictives, explicatives, typologiques) et d'appliquer ces méthodes à des problèmes réels en Santé.**

Débouchés

Career prospects

Project Manager
Research or Design Engineer
Data scientist

Further Study Opportunities

PhD

Calendar

Start of programme (indicative date)
01/10/2026
Admission

Admission Route

Economics
Sociology
Mathematics and computer science applied to human and social sciences
Mathematics
Life Sciences
Health sciences
Science and Technology
Engineering Sciences
Undergraduate double degree Mathematics - Physics

Capacity

Available Places

25

Target Audience and Entry Requirements

Students from the Health field (or with a strong knowledge of it), who have prior training in probability, statistics, and biostatistical modeling (in a first-year Master's in Public Health or an equivalent program), and who wish to understand high-dimensional data analysis methods (predictive, explanatory, typological) and apply them to real-world Health problems.

As courses are taught in French, students must have at least a C1 level in French.

Période(s) de candidature

Inception Platform

From 01/05/2026 to 01/08/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of French (compulsory for non-French speakers).

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

Additional supporting documents

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Recommendation letters.

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum
- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France

- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	30	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
UE Obligatoires								
Études d'association et de liaison en génétique humaine	3	Semestre 1	30					
Charger le détail								
Recherche biomédicale, études prédictives, analyse de survie	4	Semestre 1	30					
Charger le détail								
Logiciels pour la génétique	2	Semestre 1		21				
Charger le détail								
Méthodes et applications en pharmaco épidémiologie	1	Semestre 1	6					
Charger le détail								
Analyse causale	2	Semestre 1	12					
Charger le détail								
Méthodes pour les études de data mining et les études prédictives - Apprentissage automatique	4	Semestre 1	30					

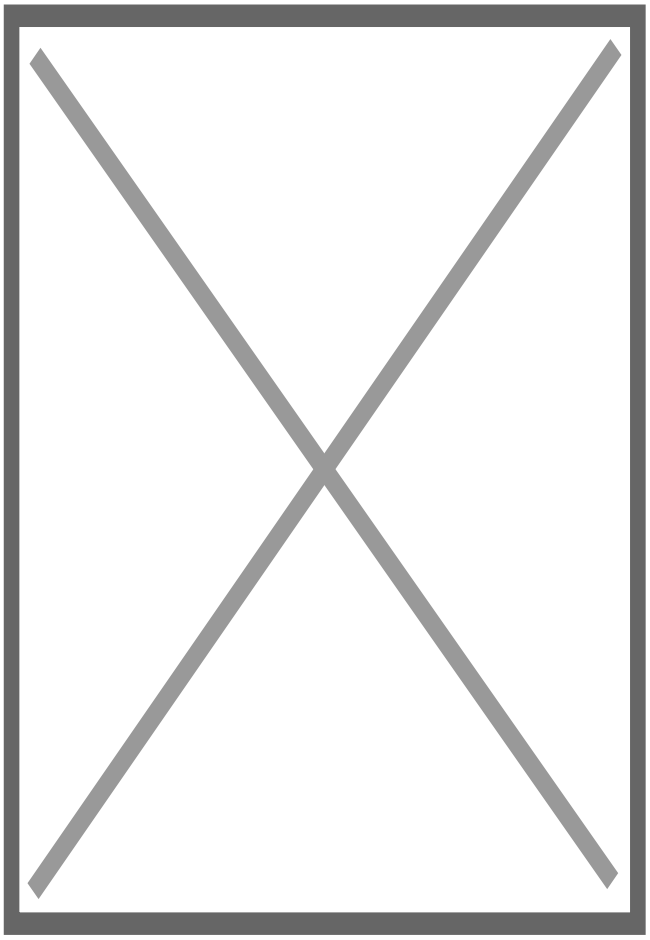
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Charger le détail Programmation en Python	3	Semestre 1		21				
Charger le détail Programmation en R	3	Semestre 1		21				
Charger le détail Séminaires	1	Semestre 1	6					
Charger le détail Statistique mathématique - Statistiques multivariées	5	Semestre 1	45					
Charger le détail UE Optionelle : 1 seule au choix								
Bases en statistiques et en génétique	2	Semestre 1	18					
Charger le détail UE libre pour santé publique - 2 ECTS	2	Annualisé						
Charger le détail								

Teaching Location(s)

VILLEJUIF

Training campus

Javascript est requis pour visualiser cette carte.



Kremlin-Bicêtre

Kremlin-Bicêtre
Bus 125, 186, 323
Métro 14 Hôpital Bicêtre
Voir
Student restaurant (CROUS)

Contact

- ### Secretariat des masters

  Secrétariat des masters

http://www.universite-paris-saclay.fr/formation/master/sante-publique/m2-sciences-des-donnees-de-sante