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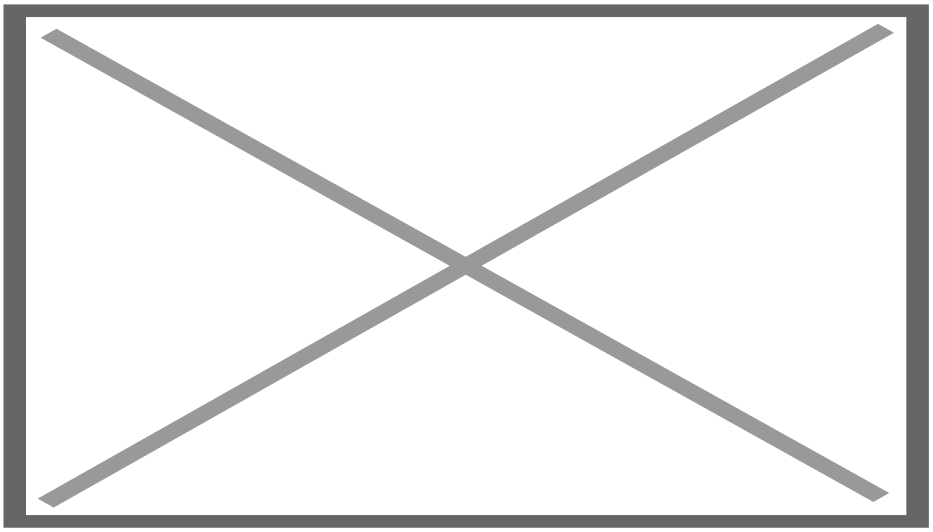
M2 Data Science : Health, Insurance and Finance - apprentissage

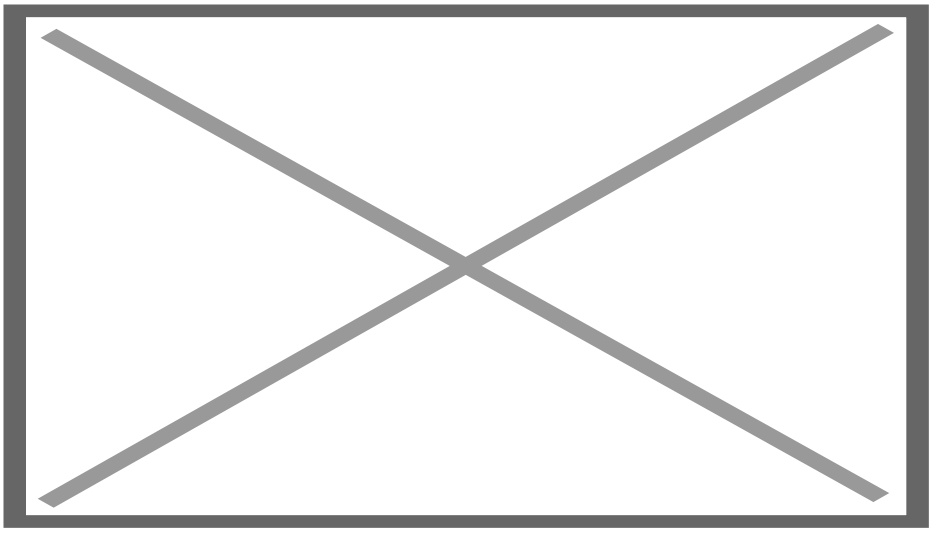
Master's degree
Specialisation Mathematics and applications
Enrolment type
Formation en apprentissage
Language(s) of instruction
English
French

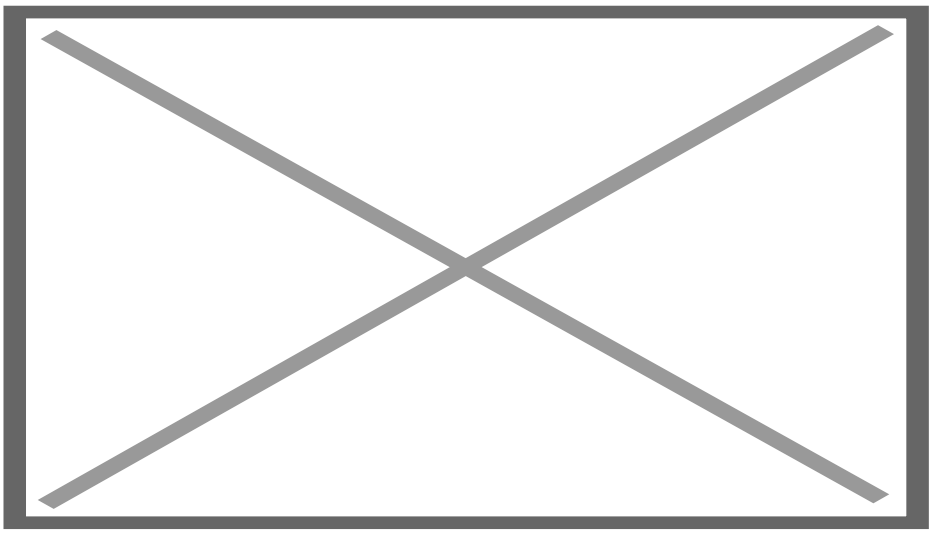
The Master 2, Data Science: Health, Insurance, Finance is a master's degree designed to train students from mathematics and applied mathematics backgrounds in data science (mathematical and computer science aspects) and advanced statistics.

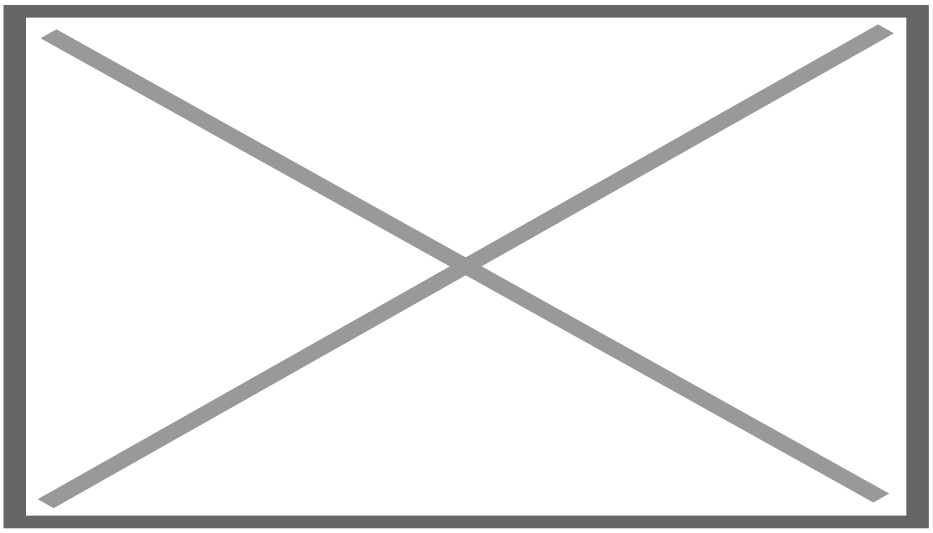
Year organized into 5 blocks that can be compensated for each other, except for the internship

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Apply Now









Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Understand, implement and develop statistical methods (mathematical, digital, statistical learning) for data science, deep learning and high dimensionality * Manage large databases * Select machine learning and statistical algorithms adapted to high dimensionality and relevant to application fields * Develop the computer programmes needed to implement them (python, R, spark) * Share the results obtained with appropriate visualisation tools.

Objectives

The Master 2, Data Science: Health, Insurance, Finance is a master's degree designed to train students from mathematics and applied mathematics backgrounds in data science (mathematical and computer science aspects) and advanced statistics.

Calendar

Start of programme (indicative date)
01/09/2026
End of programme (indicative date)
30/09/2027
Admission

Capacity

Available Places

15

Target Audience and Entry Requirements

2nd year Master's Data Science: Health, Insurance, Finance is aimed in particular at 1st year Master's mathematics students (or equivalent engineering school curriculum), and includes courses in inferential statistics and linear models, probability and stochastic processes, and programming (R and Python).

Période(s) de candidature

Inception Platform

From 05/01/2026 to 10/07/2026

Supporting documents

Compulsory supporting documents

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

Additional supporting documents

Letter of recommendation or internship evaluation.

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

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

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learni cours
Stage	19	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learni cours
English semester 2	2	Semester 2		10					

Charger le détail

English Semester 1	2	Semester 1		10					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Statistics	6	Semester 1	27	27					

Charger le détail

Advanced Statistics and Machine Learning	6	Semester 2	24	27					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Charger le détail Deep Learning	4	Semester 2	15	15					
Charger le détail Bayesian statistic and discrete latent variables	2.5	Semester 1	12	15					
Charger le détail Machine Learning/ IA fiable	2.5	Semester 1	10.5	10.5					
Charger le détail Dimension reduction (FA+FI)	2.5	Semester 1	9	9					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Numerical finance and models calibration	6	Semester 1	42						
Charger le détail Financial econometrics	3	Semester 1	15	10					
Charger le détail Statistics for genetics and genomics (Health option)	2.5	Semester 2	9	9					
Charger le détail Introduction to genetics (health option)	2.5	Semester 1	9	9					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Charger le détail									
Survival and longitudinal data analysis (options health and insurance)	5	Semester 1	10.5	10.5					
Charger le détail									
Bioinformatics (Health option)	2.5	Semester 2	9	9					
Charger le détail									
Machine Learning for insurance and finance (option insurance and finance)	5	Semester 2	18	18					
Charger le détail									

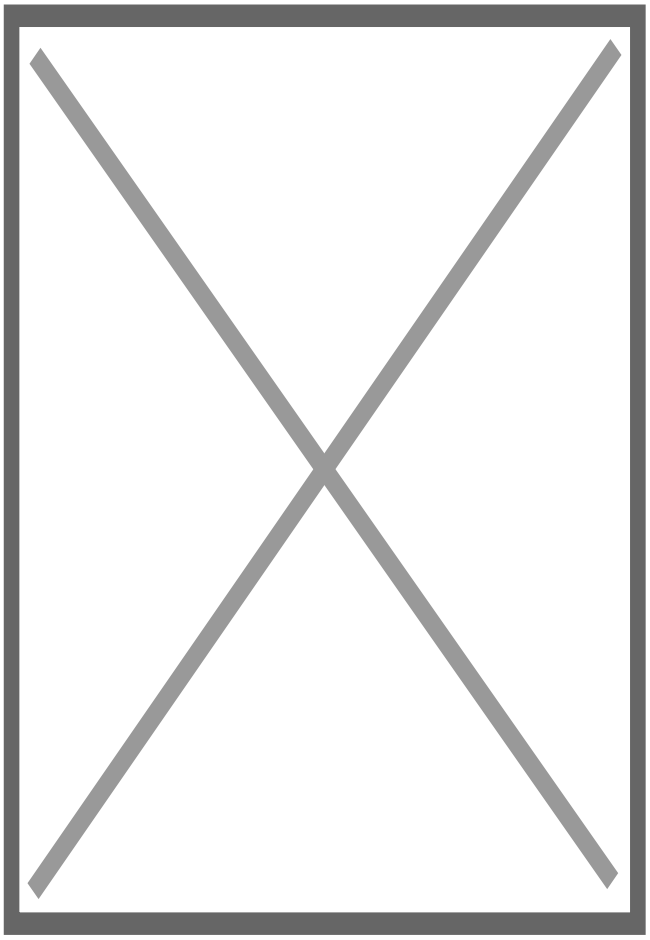
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista lear cou
Basic of informatics	2	Semester 1	9	9					
Charger le détail									
Advanced Informatics	4	Semester 2	13.5	22.5					
Charger le détail									

Teaching Location(s)

EVRY

Training campus

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Evry

Evry
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Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Marie-Luce Taupin**

http://www.universite-paris-saclay.fr/formation/master/mathematiques-et-applications/m2-data-science-sante-assurance-et-finance-apprentissage