Université Paris-Saclay

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Master's degree

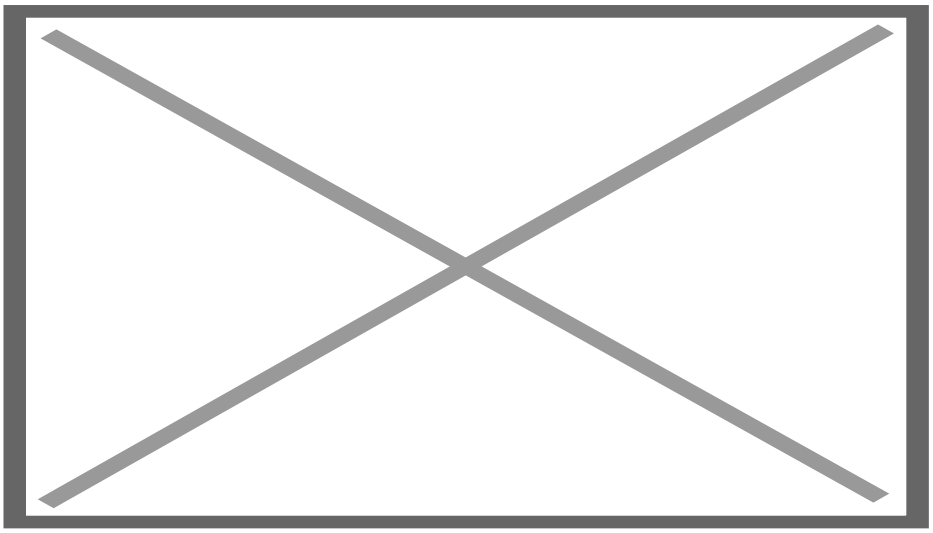
Specialisation Mathematics and applications

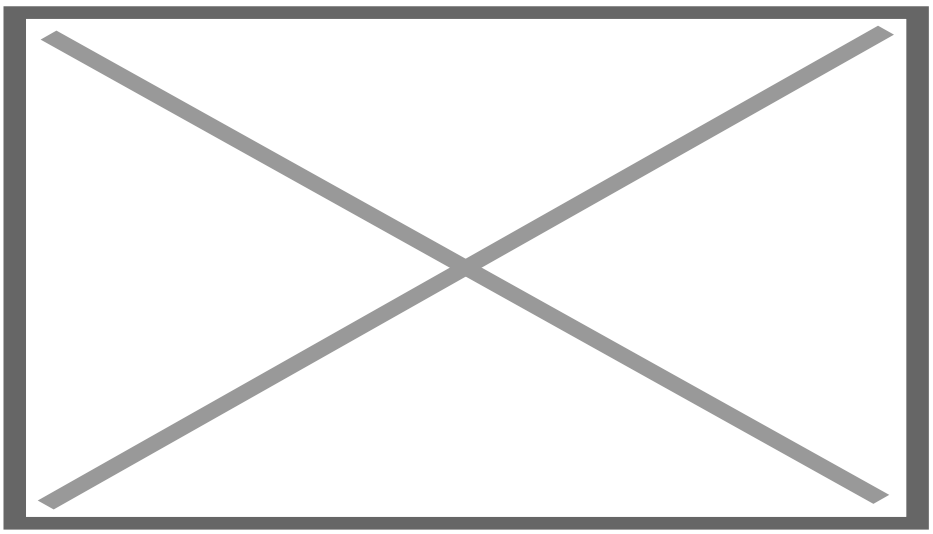
Language(s) of instruction

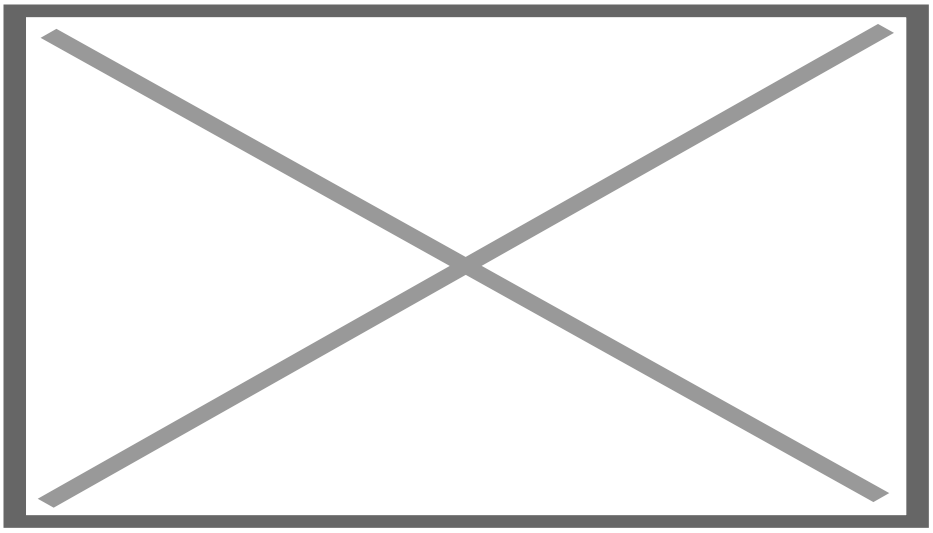
French

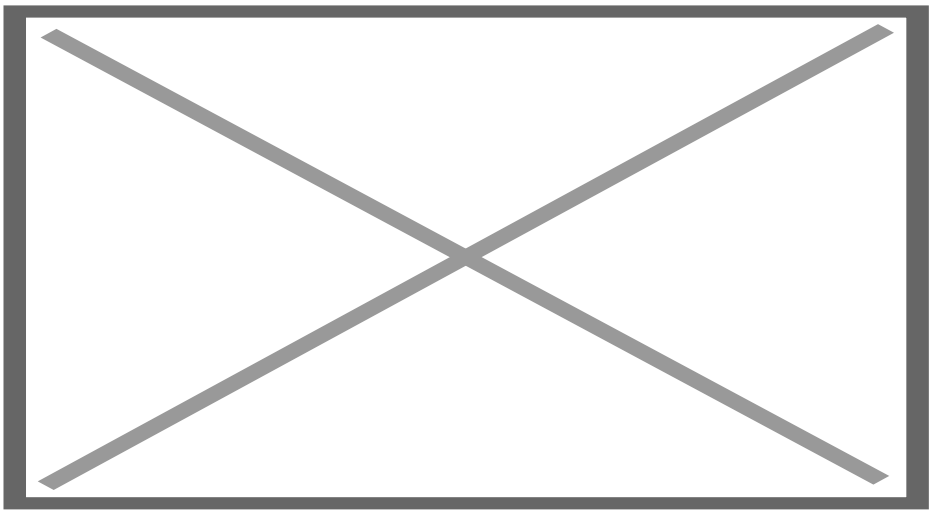
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Information

- Overview
- Application requirements
- Schedule

Présentation

Calendar

Start of programme (indicative date)
31/08/2026
End of programme (indicative date)
30/08/2027
Admission

Admission Route

Mathematics

Capacity

Available Places

20

Période(s) de candidature

Inception Platform

From 15/01/2026 to 16/03/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the Masters' applications and enrolment page.

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Curriculum Vitae.

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

Additional supporting documents

Research project.

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

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	dista learn cou
Stage entreprise ou laboratoire ou TER	13	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Time series	2	Semester 2	6	12					

Charger le détail

Signal Processing	2	Semester 1	6	12					

Charger le détail

Base de données	2	Semestre 2	6	12					

Charger le détail

Analyse Fonctionnelle	2	Semestre 1	6	12					

Charger le détail

UE ouverture orientation	2	Semestre 2							

Charger le détail

Stochastic Processes	2	Semester 2	6	12					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Principes fondamentaux de l'automatique	2	Semestre 2	6	12					
Charger le détail									
Optimisation différentiable 2	2	Semestre 2	6	12					
Charger le détail									
Analyse et approximation par éléments finis d'EDP	2	Semestre 2	6	12					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Apprentissage statistique	4	Semestre 2	12	24					
Charger le détail									
Théorie spectrale des opérateurs autoadjoints	4	Semestre 2	12	24					
Charger le détail									
Modèles stochastiques pour la finance	4	Semestre 2	12	24					
Charger le détail									
Méthodes numériques statistiques	4	Semestre 2	12	24					
Charger le détail									
Méthodes numériques probabilistes	4	Semestre 2	12	24					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Calcul scientifique à haute performance	4	Semestre 2	12	24					
Charger le détail									
Jeux, graphes, RO	4	Semestre 2	12	24					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Statistical Modelling	4	Semestre 1	12	24					
Charger le détail									
Markov Chains	4	Semester 1	12	24					
Charger le détail									
Differentiable Optimization	4	Semestre 1	12	24					
Charger le détail									
The Finite Element Method	4	Semester 1	12	18	6				
Charger le détail									
Recherche opérationnelle	2	Semestre 1	6	12					
Charger le détail									
Martingale Theory	2	Semester 1	6	12					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Projet de simulation numérique	4	Semestre 2			21			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class
Communication Charger le détail	1	Semestre 1		6				
Programmation scientifique en C++ Charger le détail	3	Semestre 1	7		14			
Langue Charger le détail	3	Semestre 2	25					

Teaching Location(s)

ORSAY
PALAISEAU

Contact

- **Benjamin GRAILLE**
- **Laurent BOURGEOIS**

http://www.universite-paris-saclay.fr/formation/master/mathematiques-et-applications/m1-mathematiques-appliquees-site-orsay