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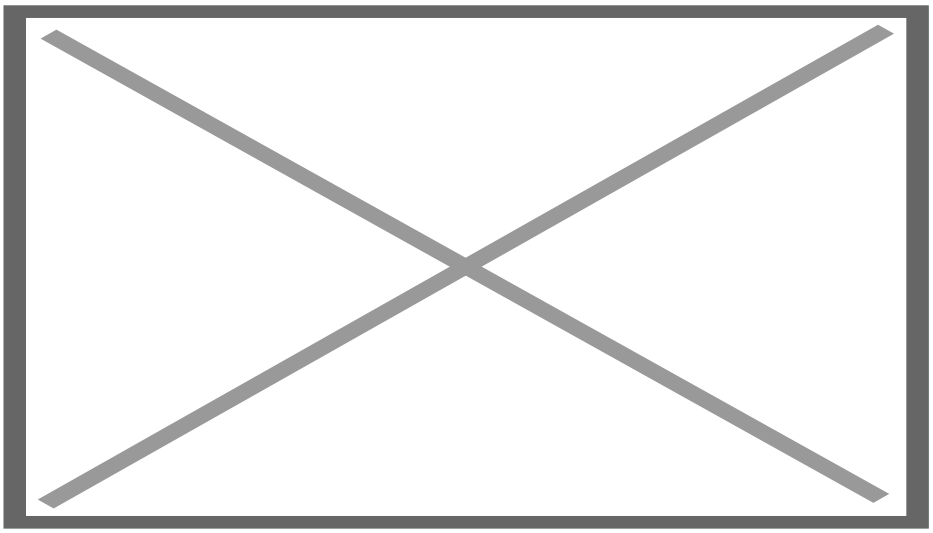
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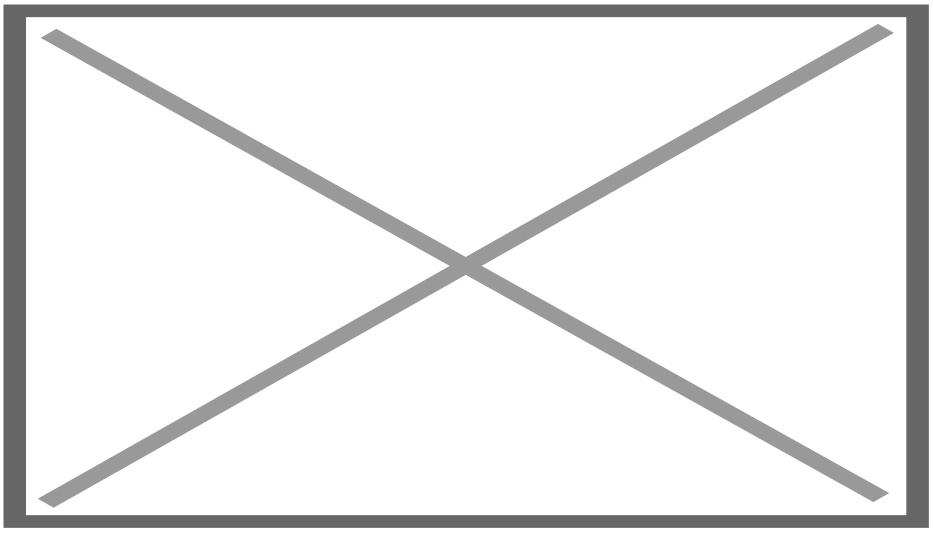
M1 program J.Hadamard, Mathematics (Orsay)

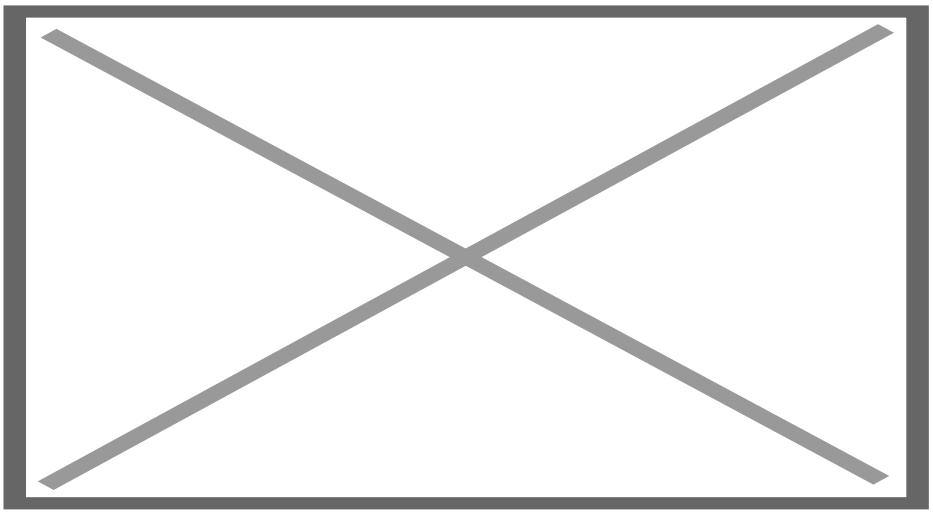
Master's degree
Specialisation Mathematics and applications
Enrolment type
Formation initiale
Language(s) of instruction
English
French

The Jacques Hadamard mathematics M1 program at the Orsay campus is the most ambitious mathematics M1 program at Orsay. It is unique in offering a high degree of flexibility, including access to numerous courses at partner institutions and elsewhere, as well as the possibility for the most advanced students to take some M2 courses.

Télécharger la fiche détaillée
Apply Now







Information

- Overview
- Application requirements
- Schedule

Présentation

Objectives

Objectives :

- Developing and mastering high level mathematical tools and methods
- Being able to explain clearly and precisely a mathematical theory and mathematical results.

This program is relevant to all fields in mathematics. The students following it will be particularly well prepared for research in mathematics, in the academic system or in industry.

Potentially more up to date information can be found on the program website. Also note the Fondation Mathématiques Jacques Hadamard offers masters and PhD-track scholarships in addition to the scholarship available to all masters of Paris-Saclay university. More information about which courses can be taken in

English is available on the FMJH website (but note that in any case you will have a much better experience living in France if you learn at least the basics of the French language).

Calendar

Start of programme (indicative date)
01/09/2026
End of programme (indicative date)
31/08/2027
Admission

Admission Route

Mathematics

Capacity

Available Places

20

Target Audience and Entry Requirements

The M1 program J. Hadamard is intended for outstanding students in mathematics.

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.

Additional supporting documents

Letter of recommendation or internship evaluation.

Recommended

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

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

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 learr cou
Advanced Algebra	7.5	Semester 1	48	60					
Charger le détail									
Advanced analysis	7.5	Semester 1	48	60					
Charger le détail									
Advanced Probability Theory	7.5	Semester 1	48	60					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
General topology and algebraic topology	5	Semester 1	40						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
Charger le détail Géométrie aléatoire	5	Semestre 1							
Charger le détail Cryptographie	5	Semestre 1	24		24				
Charger le détail Analyse Appliquée 1	5	Semestre 1	24	24					
Charger le détail Langue	5	Semestre 2	25						
Charger le détail Mathématiques pour l'Intelligence Artificielle 1	5	Semestre 1	48						
Charger le détail Advanced algorithms	2.5	Semester 1	10.5	10.5					
Charger le détail Graph algorithms	2.5	Semester 1	10.5	10.5					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Geometry	7.5	Semester 2	40	50					
Charger le détail PDE's and Fourier Analysis	7.5	Semester 2	40	50					
Charger le détail Number Theory	7.5	Semester 2	40	50					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class	distan learn cour
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practical class	di le
Signal and information Theory	5	Semester 2	20	20					
Charger le détail									
Optimization and numerical optimization	5	Semester 2	20	14	6				
Charger le détail									
Discretization of PDEs	5	Semester 2	20		20				
Charger le détail									
Mathematical Logic	5	Semester 2	40						
Charger le détail									
Statistics	5	Semester 2	40						
Charger le détail									
History of Mathematics	5	Semester 2	12	12					
Charger le détail									
Méthodes Markoviennes	5	Semestre 2	20		20				
Charger le détail									
Méthodes effectives pour les polynômes	5	Semestre 2	20		20				
Charger le détail									
Mathematics for AI	5	Semester 2	40						
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learni cours
Mémoire ou Stage	10	Semestre 2							

Charger le détail

Teaching Location(s)

ORSAY

Contact

- **Frédéric ROUSSET**

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