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Add to Compare

M2 Analysis, Arithmetic, and Geometry

Master's degree

Specialisation Mathematics and applications

Enrolment type

Formation initiale

Formation continue

Language(s) of instruction

English

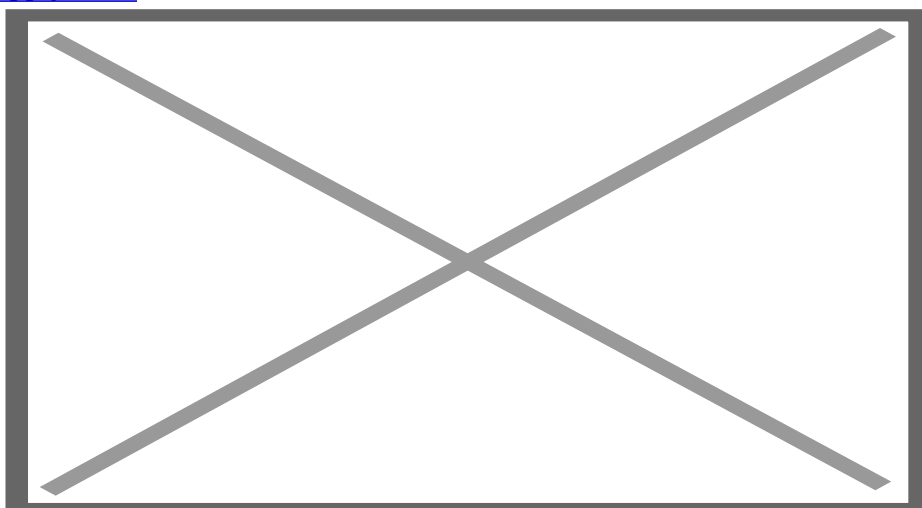
French

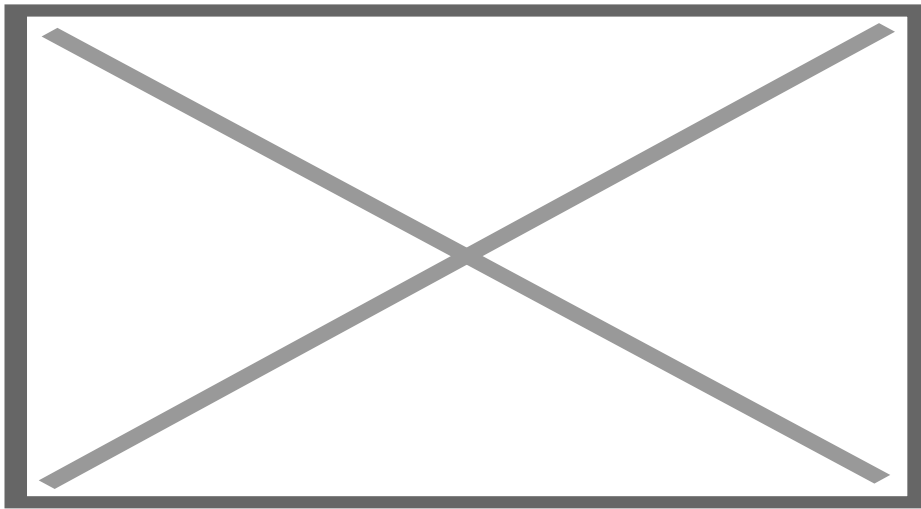
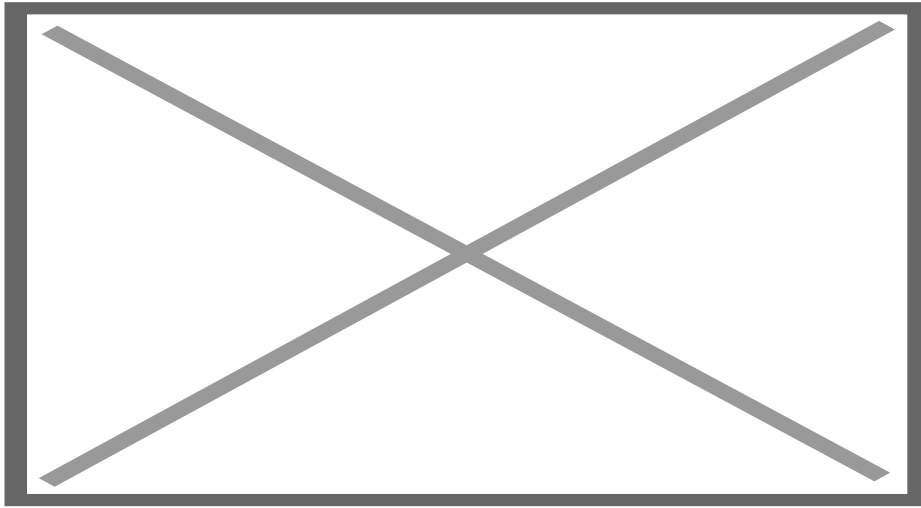
The Analysis, Arithmetic, Geometry course is one of the 2nd year Master of the Master's track [Mathematics and Applications](#) at [Université Paris-Saclay] (<https://www.universite-paris-saclay.fr/en>). The main aim of the course is to prepare students for a thesis in fundamental mathematics.

Our master's program M2 offers three crash courses (in differential geometry, algebra and complex analysis) in September, several fundamental advanced courses in the first term (such as algebraic geometry, number theory, ergodic theory and dynamical systems, groups and geometry; the subjects may vary slightly from year to year) and a number of more specialized courses in the second term (the subjects change regularly and completely, we try to be sufficiently diverse in our offer). Of course you are also expected to write and defend a master thesis under the guidance of a senior researcher. This can be done at Orsay mathematical department but also at another research unit if necessary.

[Télécharger la fiche détaillée](#)

[Apply Now](#)





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Information

- [Overview](#)
- [Application requirements](#)
- [Schedule](#)

Présentation

Skills

Master and apply cutting edge mathematical tools and methods.

Objectives

The main aim of the "Analysis, Arithmetic, Geometry" (AAG) course is to prepare students for a thesis in fundamental mathematics.

Débouchés

Career prospects

After a Master's or Master's + PhD: researcher or lecturer

Further Study Opportunities

PhD

Students with a 2nd year Master's degree have the possibility to pursue doctoral research.

Admission

Admission Route

Mathematics

Capacity

Available Places

40

Target Audience and Entry Requirements

M1 in fundamental mathematics or an equivalent level of qualification. Admission upon competitive exam.

Période(s) de candidature

Inception Platform

From 01/03/2026 to 30/06/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Curriculum Vitae.

Additional supporting documents

Document at your convenience.

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).

Recommendation letters.

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

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.

Details of the UEs taken for candidates outside the M1 Paris Saclay.

Programme

Fundamental courses

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
Algebraic geometry : Scheme Theory 2025-2026	15	Semestre 1	50	25					
Charger le détail									
Complementary courses									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
Topics in Commutative Algebra, Homological Algebra and Sheaves Theory 2025-2026	3	Semester 2	22						
Charger le détail									
Topics in Functional Analysis 2025-2026	3	Semester 2	21						
Charger le détail									
Topics in Differential Geometry 2025-2026	3	Semester 2	21						
Charger le détail									
Anglais/FLE	3	Semestre 2	24						
Charger le détail									
A2 - Séminaire Etudiant	3	Semestre 2							
Charger le détail									
Mémoire									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distance learning
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Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Analytic methods in hyperbolic dynamical systems 2025-2026	6	Semester 2	20						

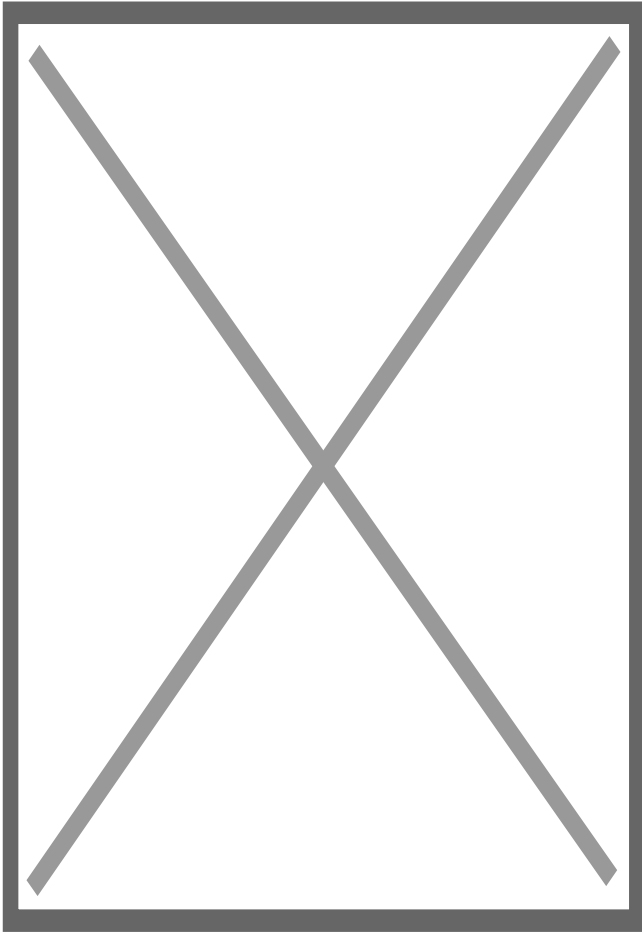
[Charger le détail](#)

Teaching Location(s)

ORSAY

Training campus

Javascript est requis pour visualiser cette carte.



Orsay Bures

Orsay / Bures-sur-Yvette

Bus 4607, 4626

RER B Orsay ville ou Bures-sur-Yvette

[Voir](#)

Library

Community center

Contact

- **Emanuele Macri**
- **Thibault LEFEUVRE**

<http://www.universite-paris-saclay.fr/formation/master/mathematiques-et-applications/m2-analyse-arithmetique-geometrie-aag>