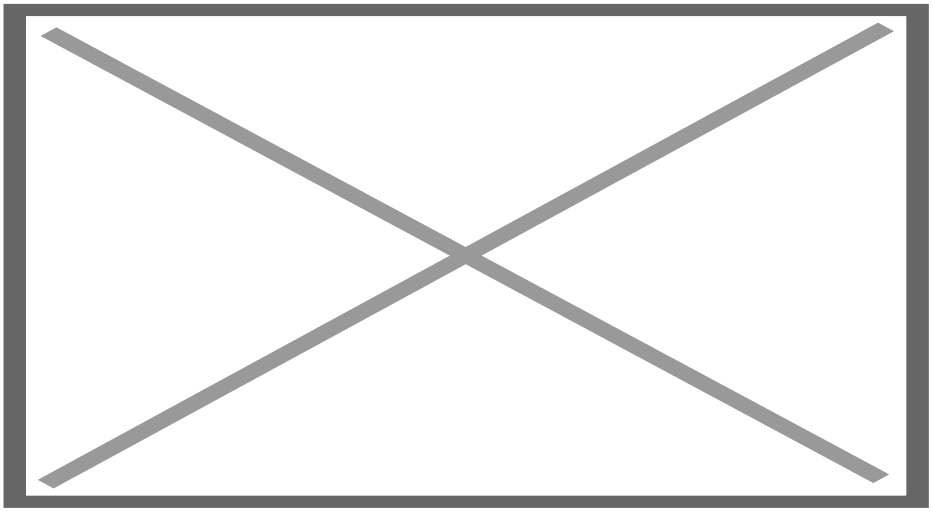
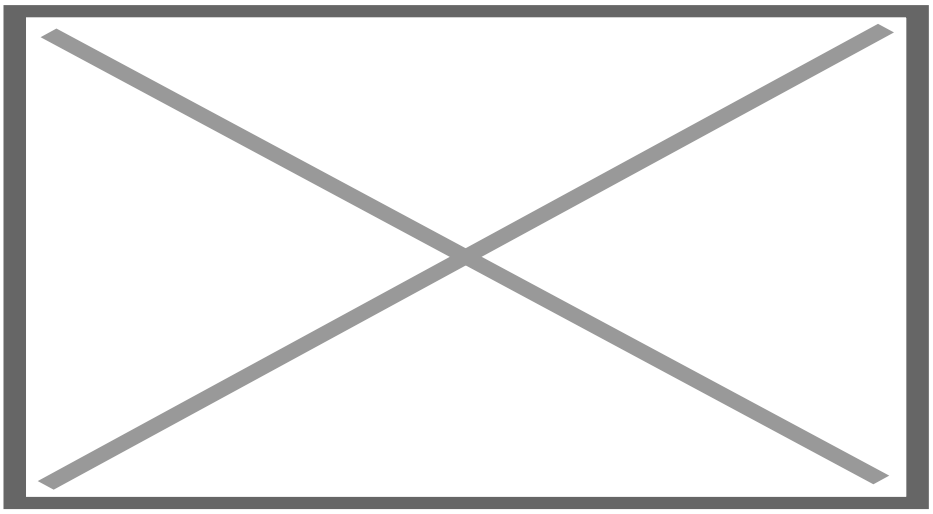
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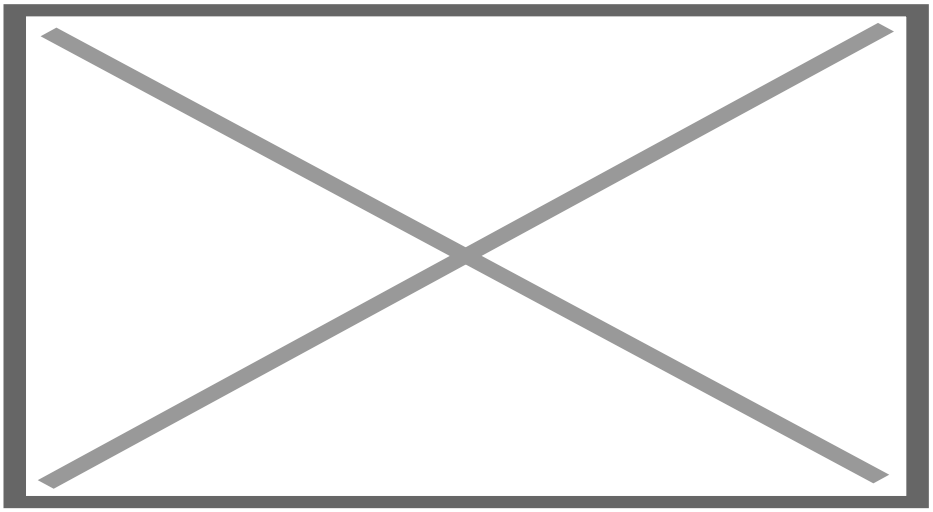
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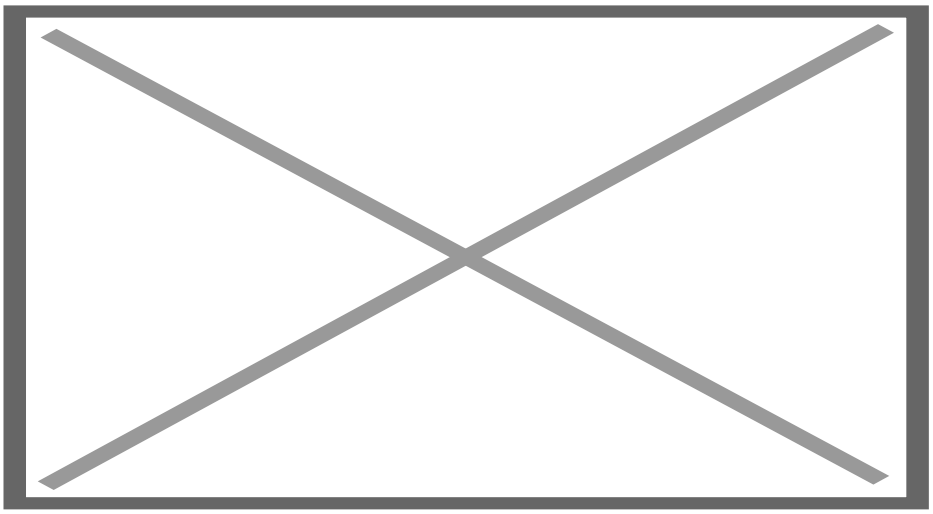
M2 Algorithmique et Modélisation à l'Interface des Sciences

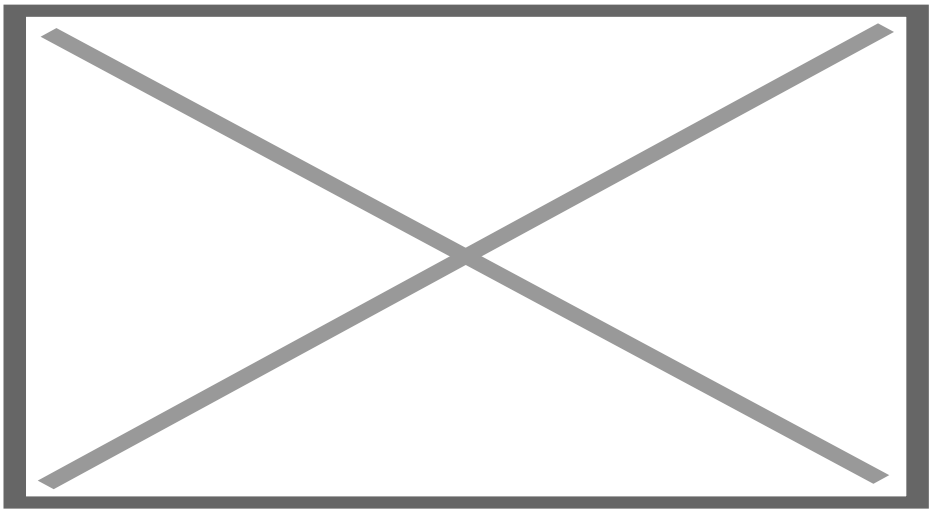
Master's degree
Specialisation Computer Science
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French
Télécharger la fiche détaillée
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Information

- Overview
- Application requirements
- Schedule

Présentation

Objectives

Ce parcours offre à des étudiants issus d'une licence d'informatique ou de mathématiques appliquées ou d'écoles d'ingénieurs une formation fondamentale de haut niveau en modélisation, notamment stochastique et probabiliste, et en algorithmique sous différentes approches, avec une ouverture vers des applications pour la résolution de problèmes énergétiques, de smart-cities et de problèmes liés à la modélisation moléculaire .

Admission

Admission Route

Computer Science

Capacity

Available Places

20

Période(s) de candidature

Inception Platform

From 30/01/2026 to 08/07/2026

Supporting documents

Compulsory supporting documents

Copy of the last diploma.

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

Copy of identity document.

Letter of recommendation or internship evaluation.

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

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

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.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
Calculabilité et complexité	3	Semestre 1	24						
Charger le détail									
Théorie et algorithmique des graphes, complexité	3	Semestre 1	24						
Charger le détail									
Théorie algorithmique des jeux	3	Semestre 1	24						
Charger le détail									
Réseaux de neurones et classification	3	Semestre 1	24						
Charger le détail									
Outils pour l'Intelligence Artificielle	3	Semestre 1	24						
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le
Modélisation stochastique et fiabilité	3	Semestre 1	24						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Projet tutoré	5	Semestre 1			30			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Programmation Avancée J2EE	4	Semestre 1	12	30				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Ouverture à la recherche	1	Semestre 1	3						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Anglais	1	Semestre 1		18				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Modélisation moléculaire pour la prédiction et la caractérisation de structures moléculaires	2	Semestre 2	24					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Mobilités et smart-cities	2	Semestre 2	24					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Intelligence Artificielle et Jeux	2	Semestre 2	24					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Algorithmique pour les réseaux de télécommunication	2	Semestre 2	24					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista lear cou
Framework J2EE	2	Semestre 2	21						

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distanc learni cours
Stage	20	Semestre 2							

Charger le détail

Teaching Location(s)

VERSAILLES

Contact

- **Dominique BARTH**
- **Jérémie CABESSA**

http://www.universite-paris-saclay.fr/formation/master/informatique/m2-algorithmique-et-modelisation-linterface-des-sciences