Université Paris-Saclay
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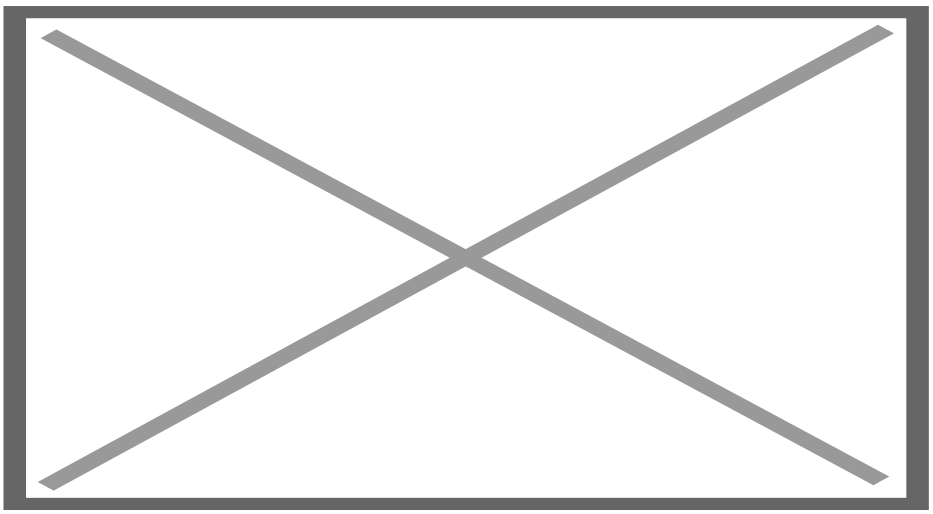
M2 Traitement de l'information et exploitation données

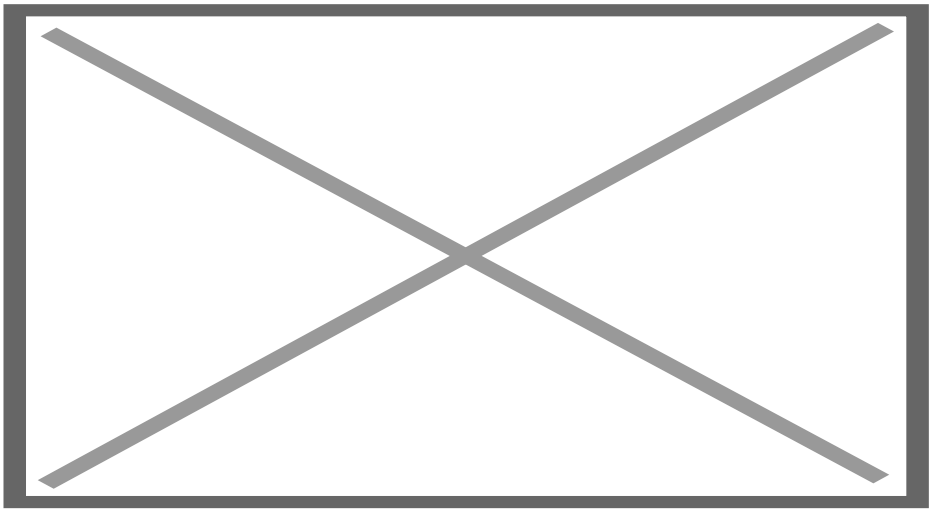
Master's degree
Specialisation Electrical Engineering
Enrolment type
Formation initiale
Language(s) of instruction
French

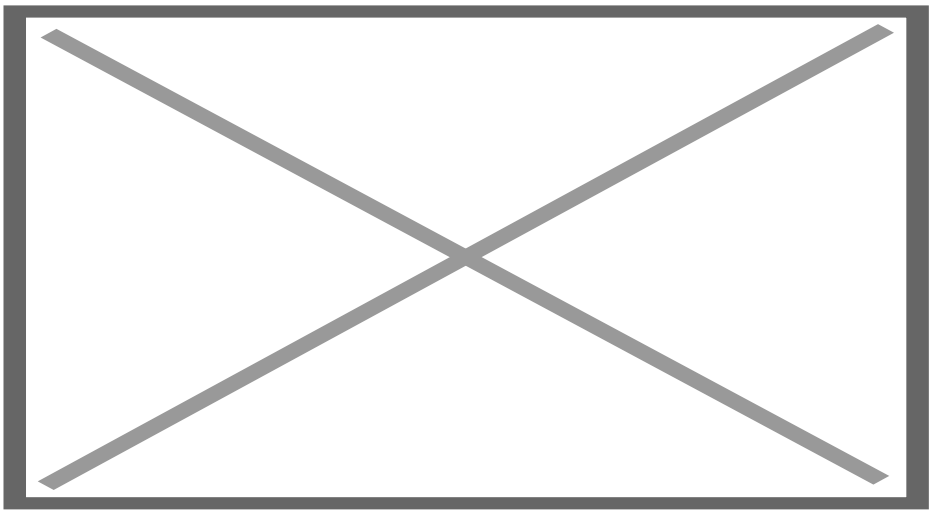
Expert in data analysis and modeling. Mastery of artificial intelligence (AI) concepts and technologies.

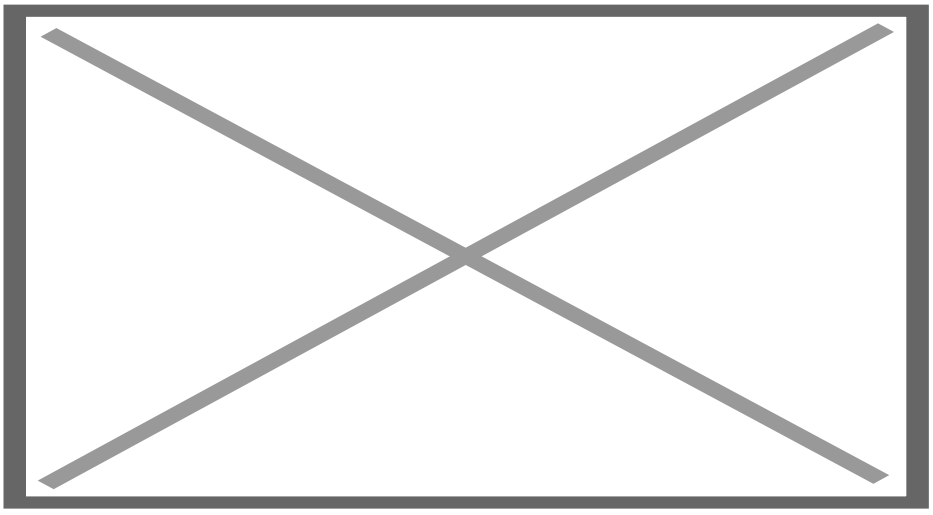
A five-week project within one of the partner laboratories is offered. The objective is to implement learning methods on a project proposed by a team of researchers from the laboratory. It is also an opportunity for some to consider pursuing a PhD.

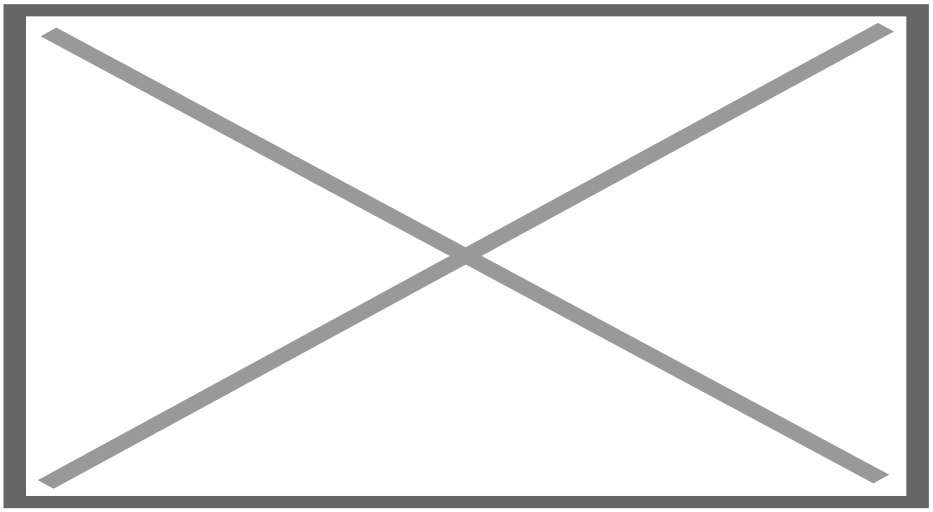
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Information

- Overview
- Application requirements
- Schedule

Présentation

Objectives

The TRIED Master's degree trains data scientists who are experts in data analysis, processing, and modeling. They master the concepts and technologies of artificial intelligence (AI). The training is multidisciplinary, at the crossroads of applied mathematics, computer science, and physics. The objective is to acquire the skills necessary to develop machine learning algorithms for complex statistical modeling in various application fields. The training also allows students to pursue a thesis, particularly in one of the partner laboratories. The training of engineers or future researchers in data analysis and modeling is based on a balance between theoretical and practical training. In-depth knowledge of the models is combined with learning how to implement them. All of the educational content and knowledge assessments offered emphasize teamwork, project work, the acquisition of cross-disciplinary skills, and the ability to implement skills from several disciplines. The master's degree is also co-accredited with the Telecom Sud Paris (TSP) engineering school of the Institut Polytechnique de Paris (IPP).

Débouchés

Further Study Opportunities

PhD thesis
Engineering, research and development

fields of statistical learning, artificial intelligence and advanced data analysis

Calendar

Start of programme (indicative date)
14/09/2026
Admission

Capacity

Available Places

18

Target Audience and Entry Requirements

The TRIED master's degree can be pursued either after completing a scientific Master 1 (Computer Science, Physics, Applied Mathematics, Statistics, Engineering Sciences, Electrical Engineering (E3A), English-language M1 in TSP), or after obtaining an engineering degree. The program can also be accessed by students in their final year of engineering school as part of an educational agreement or dual degree program (ISTY, TSP, ENSIIE, ESME, IPSA, etc.). Knowledge of statistical methods, probability, and signal processing is highly recommended. A good knowledge of a programming language (preferably Python) is also an advantage.

Période(s) de candidature

Inception Platform

From 01/03/2026 to 06/07/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

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

Curriculum Vitae.

Additional supporting documents

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
UE à choix									
Base de Données pour Big Data	3	Semester 2	15		15				
Charger le détail									
Conférences entreprises	3	Semester 2	15		15				
Charger le détail									
UE libre S2	3	Semestre 2							
Charger le détail									
UE obligatoires									
Projet de recherche en data science	3	Semester 2			15				
Charger le détail									
Apprentissage profond 2	3	Semester 2			15				
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	21	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
UE à choix									
Traitement d'images	3	Semester 1	15	0	15				

Charger le détail

Capteurs	3	Semester 1	15	0	15				

Charger le détail

Case study									
Case study 1 : data science	3	Semester 1	15	0	15				

Charger le détail

Case study 2 : Classification methods	3	Semester 1	15		15				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Network science and Graph Learning	3	Semester 1	15	0	15				

Charger le détail

Hidden Makov Chains - Reinforcement Learning	3	Semester 1	15		15				

Charger le détail

Pattern Recognition and Neural Methods	6	Semester 1	30	24	6				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Charger le détail Deep learning 1	3	Semester 1	15		15				
Charger le détail Applied ML - Real Datasets - Analysis	6	Semester 1			60				
Charger le détail Statistical methods for qualitative data	3	Semester 1	15	0	15				
Charger le détail									

Teaching Location(s)

PARIS 03
PALAISEAU

Contact

- **Laurent BARTHES**
- **Aymeric CHAZOTTES**

http://www.universite-paris-saclay.fr/formation/master/electronique-energie-electrique-automatique/m2-traitement-de-linformation-et-exploitation-donnees