Université Paris-Saclay

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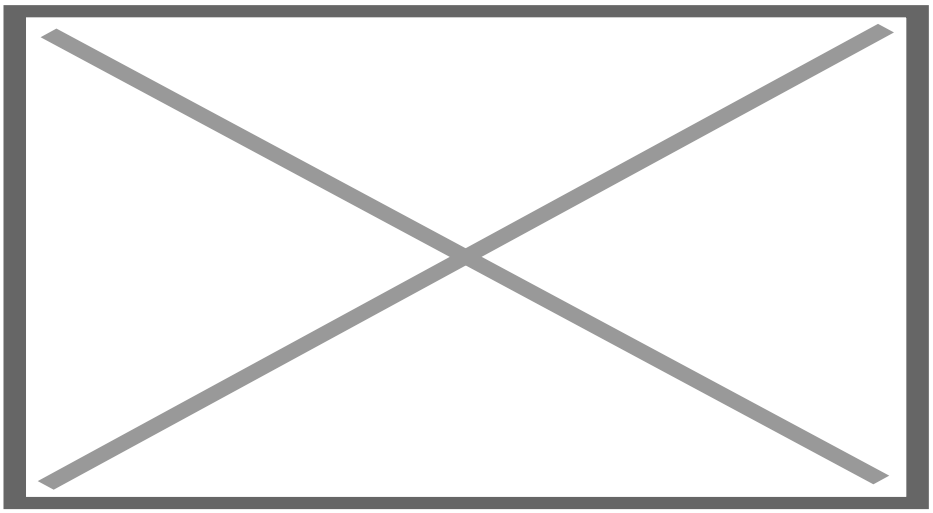
CPES2 Data Science, Health and Society - 2nd Year

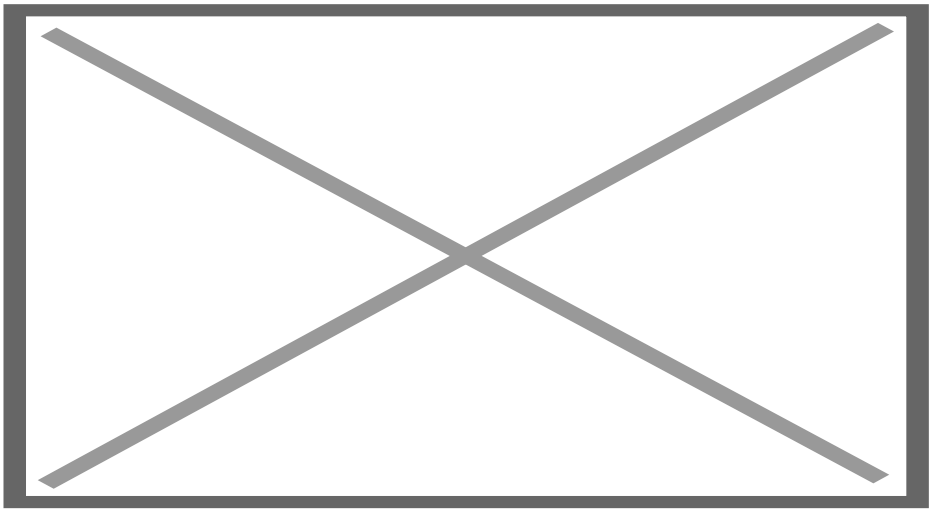
CPES (Multidisciplinary higher education programme)
Specialisation Science des données, société et santé
Language(s) of instruction
English
French

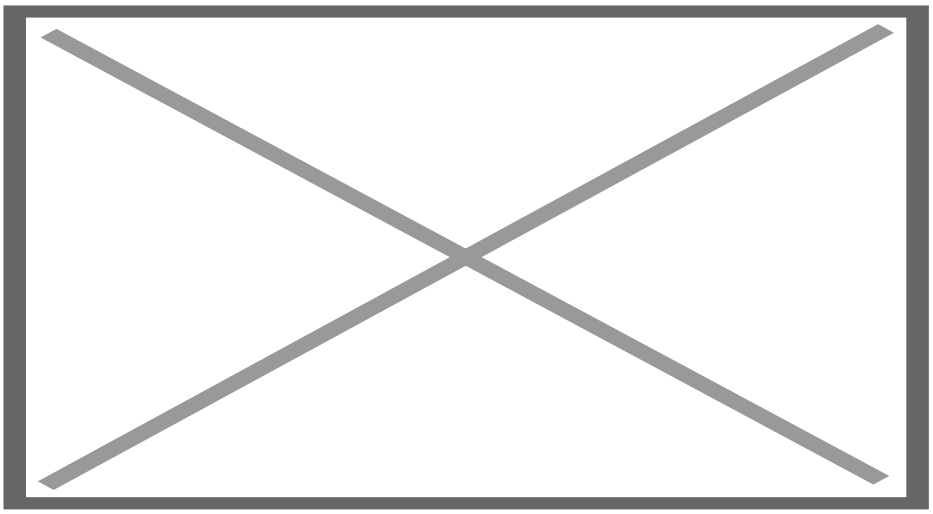
A 3-year curriculum of excellence in data science with a focus on health/society applications, the multidisciplinary graduate programme (CPES) is a demanding multidisciplinary and interdisciplinary degree. It offers openings to different cultures, a collaborative and innovative project-based pedagogcial approach and an introduction to research, characterised by a different specialisation each year.

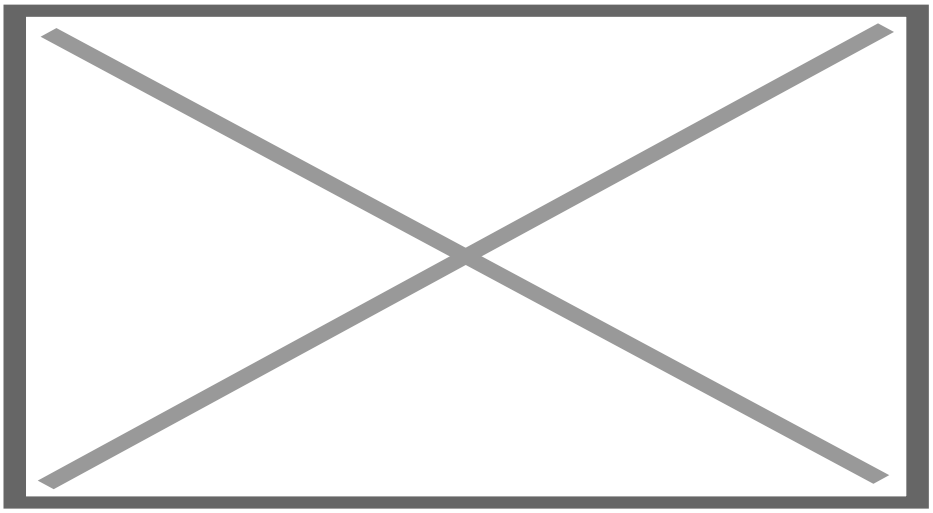
The courses are taught at the heart of the Paris Saclay campus by lecturers from Université Paris Saclay, ENS Paris Saclay, the Institut Polytechnique de Paris, HEC Paris and the Lycée International de Palaiseau Paris Saclay (LIPPS). During the second year, more than half of the curriculum is taught at LIPPS in Palaiseau, where the boarding school is also located. The other half of the courses take place at our partners' facilities. Part of the discipline can be taught in English.

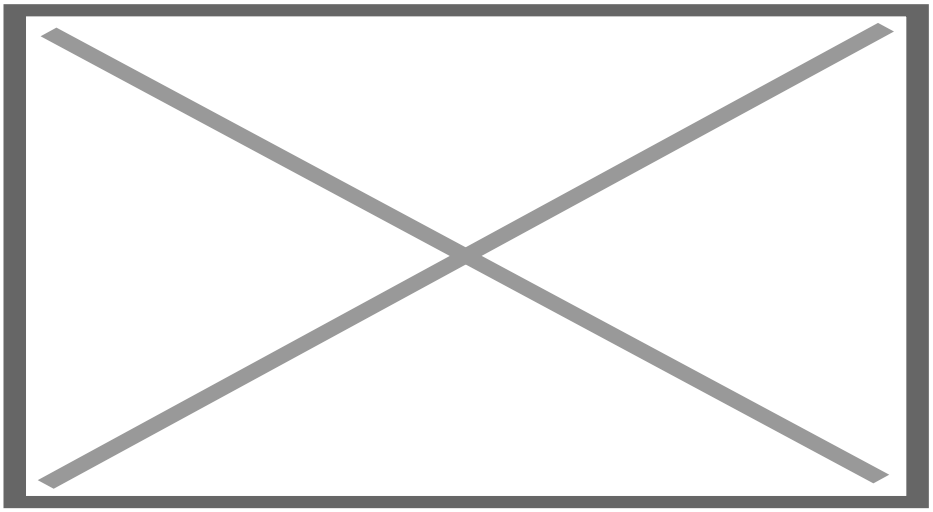
Télécharger la fiche détaillée











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The curriculum offers general courses in mathematics, computer science, economics, social policy and health, complemented by courses in data science.

Objectives

The multidisciplinary graduate programme (CPES) provides a solid foundation of multi-disciplinary and interdisciplinary knowledge to meet the data analysis and Artificial Intelligence needs identified in the public and private sectors. It prepares students for further study in a Master's degree at one of the grandes écoles or universities in France or abroad, or for admission to the grandes écoles (engineering schools, higher teacher training schools, business schools) according to each school's specific admissions process.

Admission

Capacity

Available Places

48

Target Audience and Entry Requirements

Completion of the first year of the CPES.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Mathématiques S3	7	Semestre 1	75	30				
Charger le détail								
Informatique S3	3.5	Semestre 1	45		15			
Charger le détail								
Mathématiques S4	7	Semestre 2	75	30				
Charger le détail								
Informatique S4	3.5	Semestre 2	45		15			
Charger le détail								
Chaînes de Markov	3	Semestre 2	24	12				
Charger le détail								
Langages Formels	3	Semestre 2	18		24			
Charger le détail								
Introduction Programmation Objet	3	Semestre 1	18		24			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
Enseignements applicatifs - S3									
Economie S3	2	Semestre 1	30						
Charger le détail									
Sciences des données S3	2	Semestre 1	15	15					
Charger le détail									
Option HEC	1	Semestre 1	18						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
Charger le détail									
Statistiques 2	3	Semestre 1	24	12					
Charger le détail									
Enseignements applicatifs - S4									
Economie S4	2	Semestre 2	30						
Charger le détail									
Sciences des données S4	2	Semestre 2	15	15					
Charger le détail									
Data modelling for social science and business	1	Semestre 2	18						
Charger le détail									
Affaires Européennes	1	Semestre 2	18						
Charger le détail									
Introduction à R et à R-Studio pour l'analyse de données	2	Semestre 2			24				
Charger le détail									
Spécialisation au choix									
Parcours Sciences des données et Société									
Sociologie générale S3	3	Semestre 1	45						
Charger le détail									
Sociologie générale S4	3	Semestre 1	45						
Charger le détail									
Parcours Sciences des données et Santé									
Biologie S3	3	Semestre 1	45						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
Charger le détail									
Biologie S4	3	Semestre 2	45						
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 transverses obligatoires									
Projet solidaire	1	Semestre 2							
Charger le détail									
Anglais S3	2	Semestre 1	30						
Charger le détail									
Anglais S4	2	Semestre 2	30						
Charger le détail									
Méthodes de l'entrepreneur	1	Semestre 1	18						
Charger le détail									
SPOC : Enjeux de la transition écologique	3	Semestre 1		2					
Charger le détail									
1 UE d'ouverture au choix - S3									
Activités physiques sportives et artistiques - S3	1	Semestre 1		24					
Charger le détail									
Arts et culture - S3	1	Semestre 1		24					
Charger le détail									
LV2 - S3	1	Semestre 1		24					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
Charger le détail									
FLE - S3	1	Semestre 1		24					
Charger le détail									
UE libre Catalogue S1	2.5	Semestre 1							
Charger le détail									
UE Libre (O ECTS)									
UE libre (stage)	0	Semestre 1							
Charger le détail									

Teaching Location(s)

ORSAY
JOUY EN JOSAS
PALAISEAU

Academic Partner(s)

Cette formation se fait en partenariat entre le Lycée International de Palaiseau Paris-Saclay, l'Université Paris-Saclay, l'ENS Paris-Saclay, l'Institut Polytechnique de Paris et HEC Paris.

Training campus

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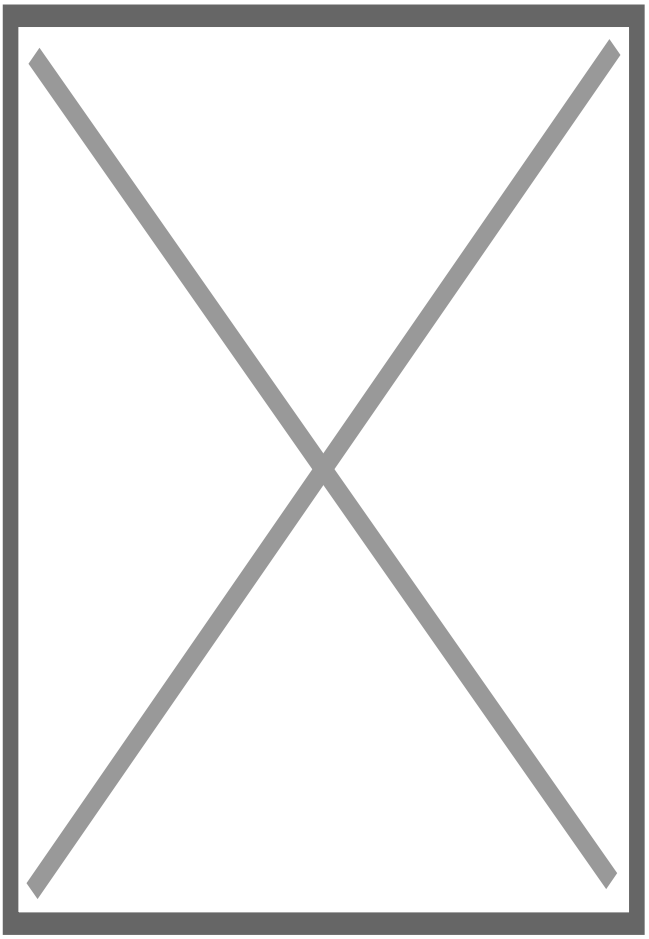
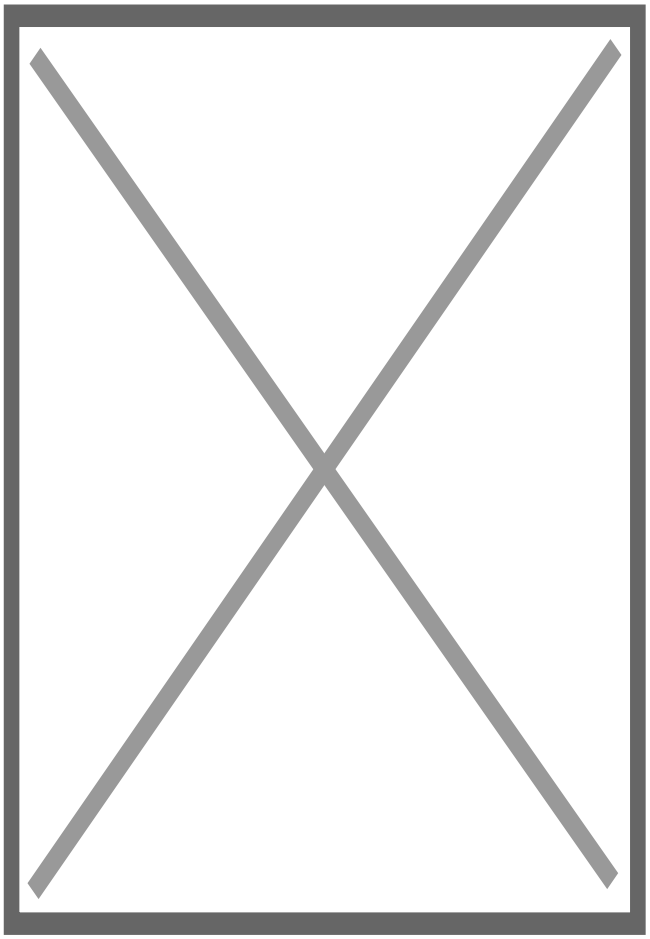


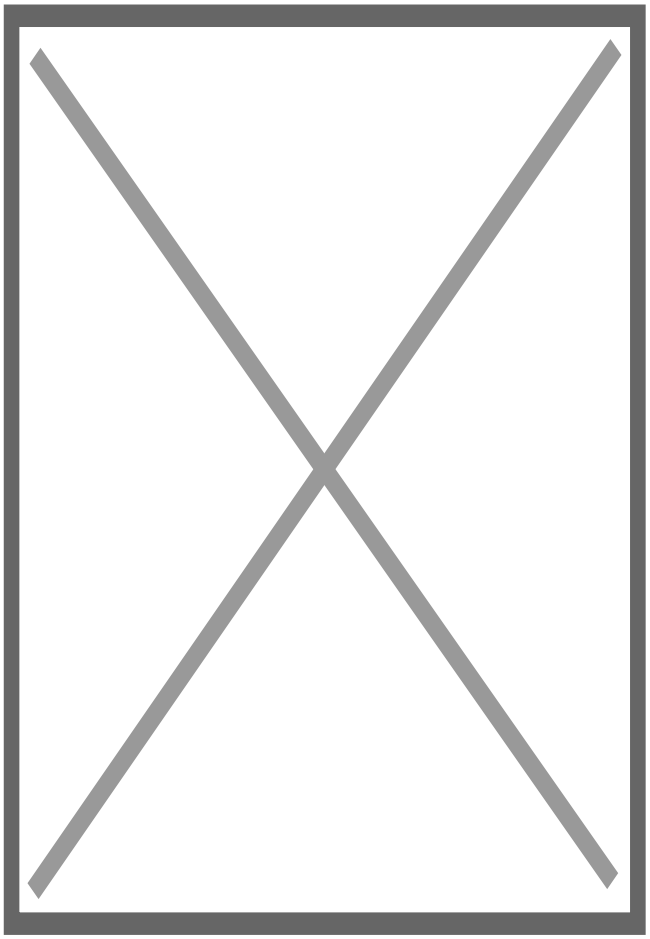
Orsay Bures

Orsay / Bures-sur-Yvette
Bus 4607, 4626
RER B Orsay ville ou Bures-sur-Yvette
Voir
Library
Community center



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Student restaurant (CROUS)
Library
Sports facilities
Student residence



Saclay Corbeville

Saclay / Palaiseau
Bus 4606, 4627, 5154, 9105, 9108
RER B Palaiseau, Palaiseau villebon ou Lozère
Voir
Student restaurant (CROUS)
Student residence
Sports facilities

Contact

- **Christine PAULIN**
- **Marie-Line BEAUFILS**
- **Gerald FORHAN**

http://www.polytech.universite-paris-saclay.fr/formation/cycle-pluridisciplinaire-detudes-superieures/science-des-donnees-societe-et-sante/cpes2-sciences-des-donnees-sante-et-societe-2eme-annee