

# Doctoral training

---

# Formation doctorale

**Doctoral training manager:** João Marques

**Administrator:** Remy Polese

Institut d'Astrophysique Spatiale Bâtiment 121 – Université Paris-Saclay

[ed127.formations@ias.u-psud.fr](mailto:ed127.formations@ias.u-psud.fr)

*(anticipate your requests!)*

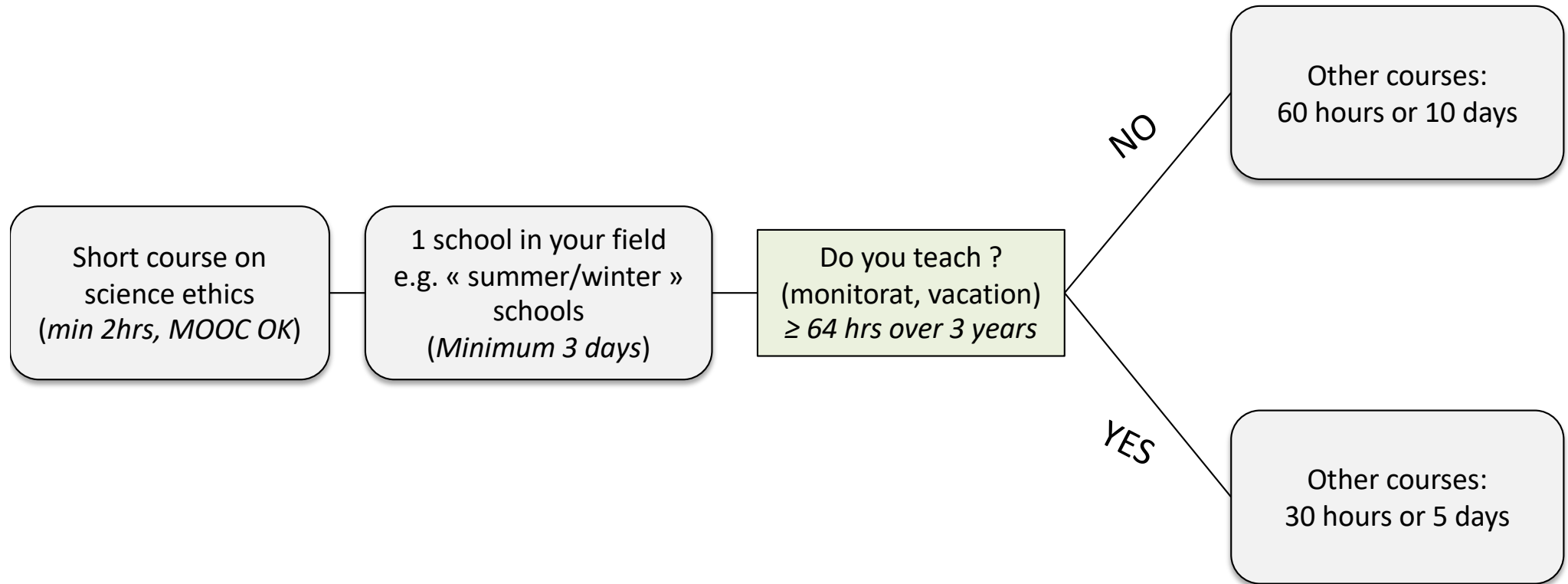
**Web page for doctoral training:**

[www.ias.u-psud.fr/fr/formation/enseignements/doctorat/formation-doctorale](http://www.ias.u-psud.fr/fr/formation/enseignements/doctorat/formation-doctorale)

# Why doctoral training?

- *(It is a contractual requirement)*
- It is an **opportunity** to acquire **new skills** or **enhance** your skillset
- Aim is 3-fold:
  1. Enhance your training experience as part of your PhD, acquiring new hard skills on **topics related to your research**
  2. Expand your horizons during your PhD: **acquire knowledge outside your field**, or consolidate skills from your student years
  3. **Prepare for your next job**, *in or outside academia*: facilitate postdoc grant applications, acquire soft skills useful for job applications outside academia

# Requirements



- *You can carry out training in any order*
- *Courses should preferably take place during first 2 years*
- *You can always attend more training sessions than is required by the doctoral school*

# Courses distribution

- **Balanced distribution between the three aims:  
30±10 hours**
  - 1. topics related to your research**
  - 2. acquire knowledge outside your field**
  - 3. Prepare for your next job**

# Training sessions

The doctoral school provides a choice of 13 courses tailored to your PhD

Astrophysique Nucléaire	FR/US	24h	Oertel Micaela
Bayesian Statistics	US	30h	Wandelt Benjamin
Histoire des idées en astronomie et en physique à partir de quelques exemples	FR	15h	Bracco Christian
Intelligence artificielle pour l'astrophysique à l'époque du big-data	US	30h	Huertas Marc
L'habitabilité des systèmes planétaires	FR	20h	Schmidt Frédéric
Description fluide et cinétique des plasmas	FR	30h	Pantellini Filippo
Les systèmes du monde des présocratiques à Kepler	FR	15h	Efthymios Nicolaidis
Préparer l'après these	FR	15h	Ollivier Marc
Simulations numériques et calcul haute performance: Applications à l'hydrodynamique pour l'astrophysique	FR	30h	Bournaud Frederic
Stochastic Processes in Astrophysics and Cosmology	US	30h	Pier-Stefano Corasaniti
Simple solutions to impossible problems	US	15h	Benjamin Wandelt
The statistics of cosmological perturbations	US	15h	Benjamin Wandelt
Sciences astronomiques : pratiques, acteurs et réseaux (Moyen Âge-XVIIIe siècle)	FR	15h	Christophe Schmit

Planning is under way. Stay tuned via our website. You will receive periodic updates by email.

# Training sessions

## A special case training session: « Préparer l'après thèse »

- ❖ This week-long course is usually in January
- ❖ It is tailored to PhDs in astrophysics
- ❖ This course uniquely prepares you to work after your thesis

You will meet the presidents of the CNAP-Astronomers, CNRS astrophysics section and University personnel : the 3 main types of permanent positions in the public sector

You will meet and discuss with professionals outside academia who work with PhDs

Dedicated workshop to work on soft skills: simulating job interview, writing CV, etc.



A unique opportunity to prepare you to work  
after your thesis, in or outside academia

# Training sessions

## The Elbereth Conference

- ❖ A conference founded by PhDs from the doctoral school 10+ years ago. It is by and for you !
- ❖ Ask your fellow PhDs about it
- ❖ Not technically a training session (does not count as training)

### A great opportunity:

- To meet broader science community
- Sharpen communication skills
- Networking

In a relaxed and friendly environment!

# Training sessions

You are also free to choose from training sessions outside the doctoral school:

**Actualités - formations externes à l'ED**

Evenement	Lieu/Place	Dates
<a href="#">La Deeptech voit BIG séminaire/événement d'ouverture</a> (inscription sur le site)	Hybride (visio/Accor Arena Paris)	06 octobre 2021
<a href="#">Search and Characterization of Exoplanets - Formation Master PSL</a>	Observatoire de Paris (lieu exact TBC)	22-26 novembre 2021
<a href="#">Conférence Nationale d'Exobiologie</a>	Marseille	11-14 octobre 2021
<a href="#">age/école thématique FOCUS sur la détection en astrophysique</a>	Observatoire de la Côte d'Azur - Provence	TBA 2022
<a href="#">Ecole d'Exobiologie pour doctorants RED'22</a>	Leipzig	TBA 2022
<a href="#">Ecole de physique des Houches - Workshop "Planet Mars 5"</a>	Les Houches	24 - 29 avril 2022 (inscriptions avant 26 novembre 2021)
<a href="#">Kavli Summer Program in Astrophysics</a>	TBA	TBA 2022
<a href="#">Atelier ExoSystèmes II</a>	Observatoire Midi-Pyrénées à Toulouse	30 Novembre - 2 Décembre 2021
<a href="#">Les phénomènes variables en astrophysique : des sursauts gamma aux blazars - Cours de F. Combes</a>	Collège de France	Récurrent, à partir du 22 novembre 2021
<a href="#">The Future of Airborne Infrared/Submm Astronomy: Instrument Solutions - Workshop</a>	En-ligne	17-19 Novembre 2021

News feed on website

*Includes:*

- *Specific language classes for non French speaking PHDs*
- *Master 2 level courses*
- *College de France*
- *Other doctoral schools*
- *Etc ...*



**Be pro-active !**

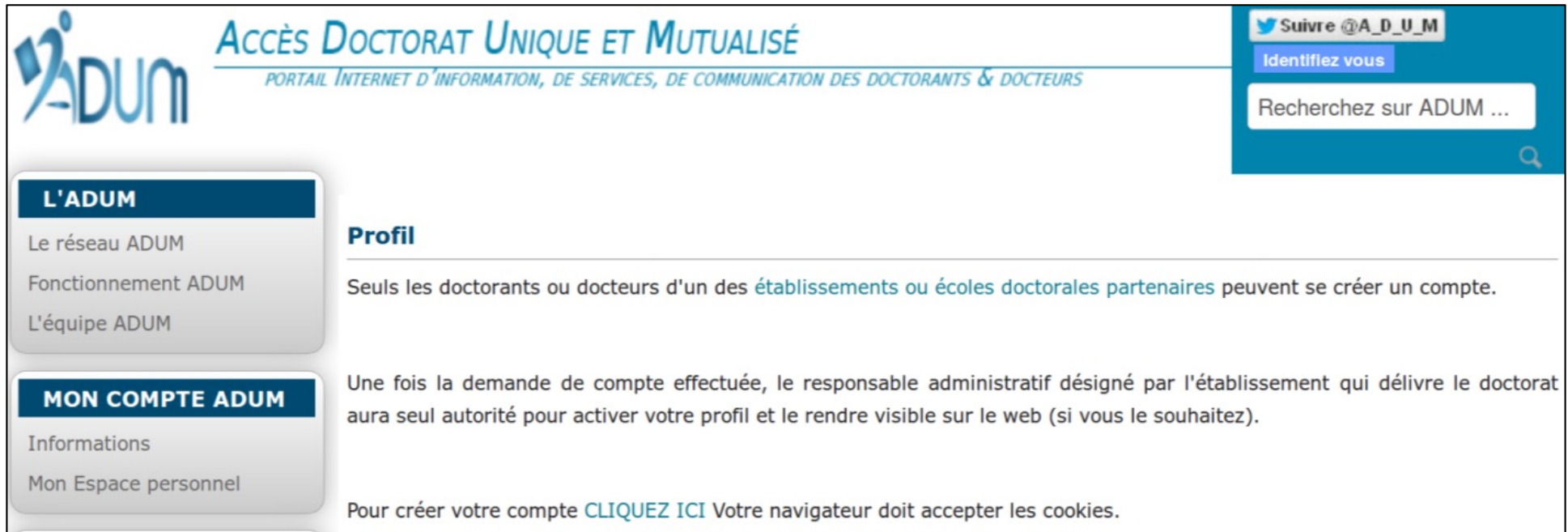
**You can browse for other training classes that are not listed here**



# How it works

Most of the doctoral training processes are handled through ADUM

[www.adum.fr](http://www.adum.fr)



The screenshot shows the ADUM website interface. At the top left is the ADUM logo. The main header reads "ACCÈS DOCTORAT UNIQUE ET MUTUALISÉ" with the subtitle "PORTAIL INTERNET D'INFORMATION, DE SERVICES, DE COMMUNICATION DES DOCTORANTS & DOCTEURS". On the right, there is a social media link "Suivre @A\_D\_U\_M" and a search bar with the text "Recherchez sur ADUM ...". A left sidebar contains two main sections: "L'ADUM" with links for "Le réseau ADUM", "Fonctionnement ADUM", and "L'équipe ADUM"; and "MON COMPTE ADUM" with links for "Informations" and "Mon Espace personnel". The main content area is titled "Profil" and contains the following text: "Seuls les doctorants ou docteurs d'un des établissements ou écoles doctorales partenaires peuvent se créer un compte." followed by "Une fois la demande de compte effectuée, le responsable administratif désigné par l'établissement qui délivre le doctorat aura seul autorité pour activer votre profil et le rendre visible sur le web (si vous le souhaitez)." and "Pour créer votre compte [CLIQUEZ ICI](#) Votre navigateur doit accepter les cookies."

- You have/will have an account on ADUM
- You will need to fill in a notional plan for your doctoral training
- You can search and book for doctoral training online (including those proposed by us)

# How it works

**Most of the doctoral training processes are handled through ADUM**

## Caveats

- Most summer schools are not on ADUM, you need to search for them on your own
  - Some training classes that are not reoccurring are not on ADUM
- ➔ Be pro-active !
- We will regularly update a list of selected schools and sessions that could be relevant to you on the website
- ➔ Consult regularly

Before enlisting for a summer school or training sessions other than those proposed by us (ED127), **you must contact the training manager** ([ed127.formations@ias.u-psud.fr](mailto:ed127.formations@ias.u-psud.fr)) to get approval

# Getting information

**Contact the training manager:** *ed127.formations@ias.u-psud.fr*

**Search for training opportunities on ADUM**

*www.adum.fr*

**Consult and check for updates on the web page for Doctoral Training**

*www.ias.u-psud.fr/fr/formation/enseignements/doctorat/formation-doctorale*

**Consult the web page of the doctoral school**

*https://ecole-doctorale.obspm.fr*

**Talk to your fellow PhD colleagues** for first-hand knowledge and feedback