

Doctoral training

Formation doctorale

Doctoral training manager: John Carter

Administrator: Remy Polese

Institut d'Astrophysique Spatiale Bâtiment 121 – Paris Saclay Université

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

Why doctoral training?

- *(It is a contractual requirement)*
- It is an **opportunity** to acquire **new skills** or **enhance** your skillset
- Aim is 3-fold:



- Enhance your training experience as part of your PhD, acquiring new hard skills on **topics related to your research**



- Expand your horizons during your PhD: **acquire knowledge outside your field**, consolidate skills from your student years



- **Prepare for your next job**, be it *in academia or outside academia*: facilitate postdoctoral grant applications, acquire soft skills useful for job applications outside academia

In a nutshell

- Doctoral training amounts to **90 class hours** throughout your PhD
... that's about 5 days per year
- **Preferably during your first two years**

1 «summer » school
(not your usual science
conference)
= 30 hours

If you teach (> 60 hrs in
total over 3 years)
= 30 hours

One mandatory short
training session on
ethics in science

Other training sessions
= 30-60 hours

You can always attend more training sessions than is required by the doctoral school

Training sessions

The doctoral school provides a choice of 11 courses tailored to your PhD

Intitulé de la formation	Langue	Durée (h)	Syllabus	Lieu	Resp. pédagogique
Astrophysique Nucléaire	FR/ENG	24	PDF	Meudon	Oertel Micaela
Bayesian Statistics	ENG	30	PDF	Paris	Wandelt Benjamin
Histoire des idées en astronomie et en physique à partir de quelques exemples	FR	15	PDF	Paris	Bracco Christian
Intelligence artificielle pour l'astrophysique à l'époque du big-data	ENG	30		Meudon	Huertas Marc
L'habitabilité des systèmes planétaires	FR	20	PDF	Orsay/Guyancourt	Szopa Cyril
Description fluide et cinétique des plasmas	FR	30	PDF	Meudon (CIAS)	Pantellini Filippo
Cosmology and structure formation at the epoch of deep large scale surveys	ENG	30		TBA	Simona Mei
Les systèmes du monde des présocratiques à Newton	FR	30	PDF	Paris	Malpangotto Michela
Préparer l'après thèse	FR	30	PDF	Orsay	Ollivier Marc
Simulations numériques et calcul haute performance: Applications à l'hydrodynamique pour l'astrophysique	FR	30		Saclay	Bournaud Frederic
Stochastic Processes in Astrophysics and Cosmology	ENG	30	PDF	Meudon	Pier-Stefano Corasaniti

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
Introduction au machine learning et au deep learning, mise en oeuvre en Python	Paris	Voir site.
Formations en "Soft Skills" de l'Université de Paris (site à consulter). <i>Attention procédure spécifique d'inscription, nous contacter</i>	Université de Paris, Campus des Grands Moulins – 75013 Paris	Octobre - Novembre
Formation doctorale "hard skills" de l'ED STEP'UP	Voir le site	Voir le site
Éthique de la recherche (MOOC)	MOOC	jusqu'au 17 novembre 2020
Cours de l'ED PIF "Python pour la Physique"	ENS Paris	A partir du 16 novembre
Cours du Collège de France - Les interactions entre particules dans les gaz quantiques	Jean DALIBARD, Collège de France	Les vendredis, de 9h30 à 11h. Dates en 2021 : 05, 12, 19, 26/03 -02, 09/04

Includes:

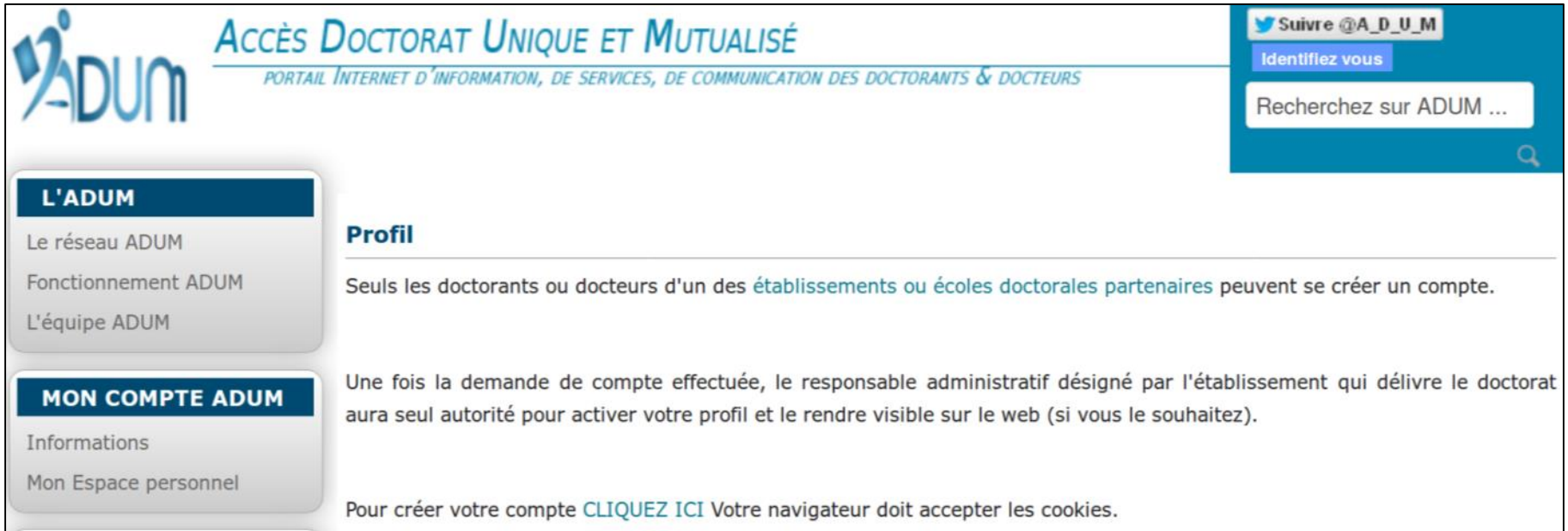
- *Specific language classes for non French speaking PHDs*
- *Master 2 level courses*
- *College de France*
- *Other doctoral schools*
- *Etc ...*

**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



The screenshot shows the ADUM website interface. At the top left is the ADUM logo. The main header reads "ACCÈS DOCTORAT UNIQUE ET MUTUALISÉ" and "PORTAIL INTERNET D'INFORMATION, DE SERVICES, DE COMMUNICATION DES DOCTORANTS & DOCTEURS". On the right, there is a blue navigation bar with a Twitter follow button for "@A_D_U_M", a login button "Identifiez vous", and a search bar "Recherchez sur ADUM ...". On the left, there are two menu 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." and "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)." At the bottom, it says "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 recurring 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) 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 $\geq 2^{\text{nd}}$ yr PhD colleagues for first hand knowledge and feedback