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DOCTORAL SCHOOL
Plant Sciences:
from genes
to ecosystems

GENERAL ASSEMBLY – 12th October, 2022

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Organization of the afternoon

- **Presentation of the doctoral studies (M. Delarue)**
  - Who are we?
  - Who are you?
  - Timeline of your thesis
  - What do we expect from you?

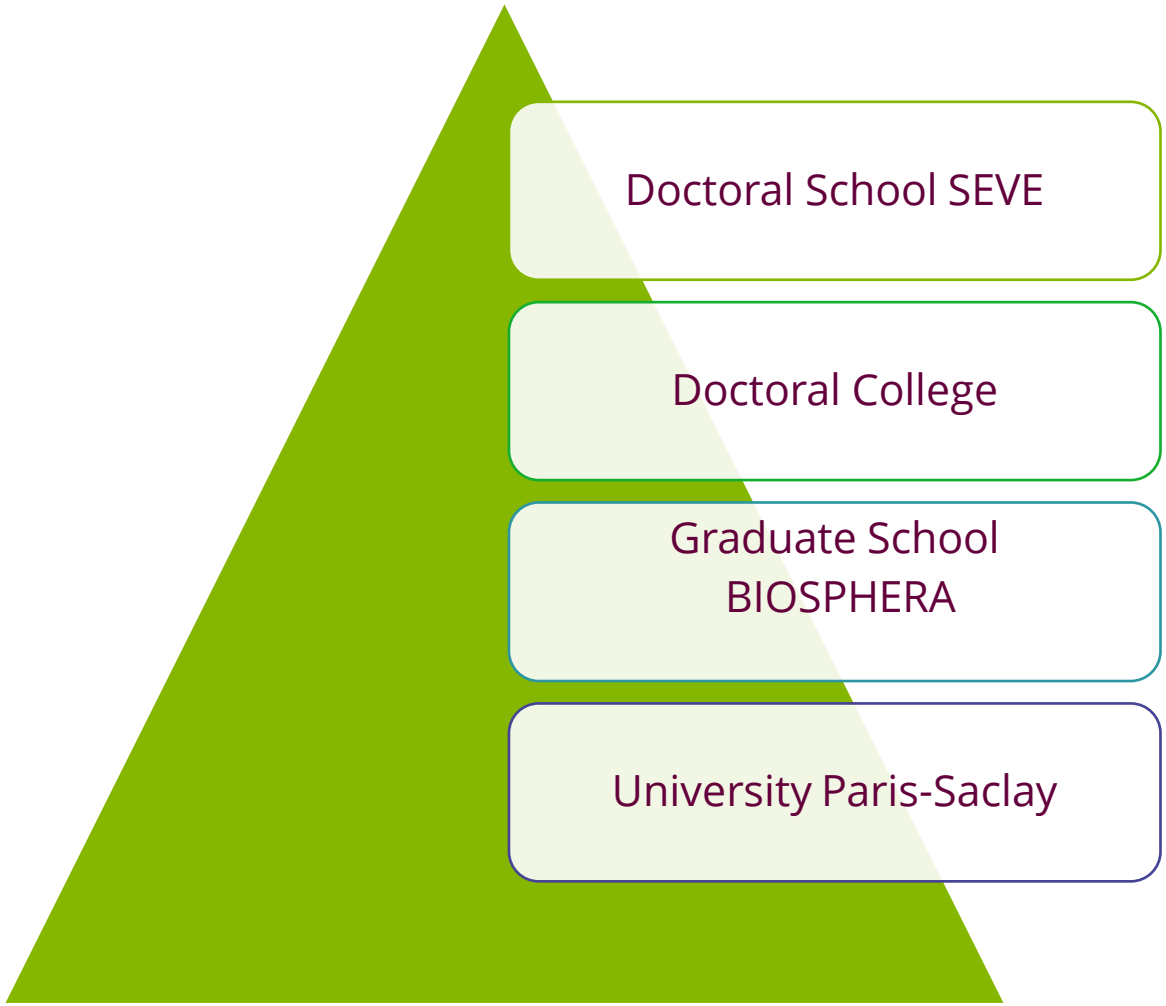
- **Awareness of Science popularization (Pierre Hilson)**

- **Presentation of the Doctoral student association (Doc en Herbe)**

- **QUIZ (S. Nadot)**

Let's have a drink!

Who are we?



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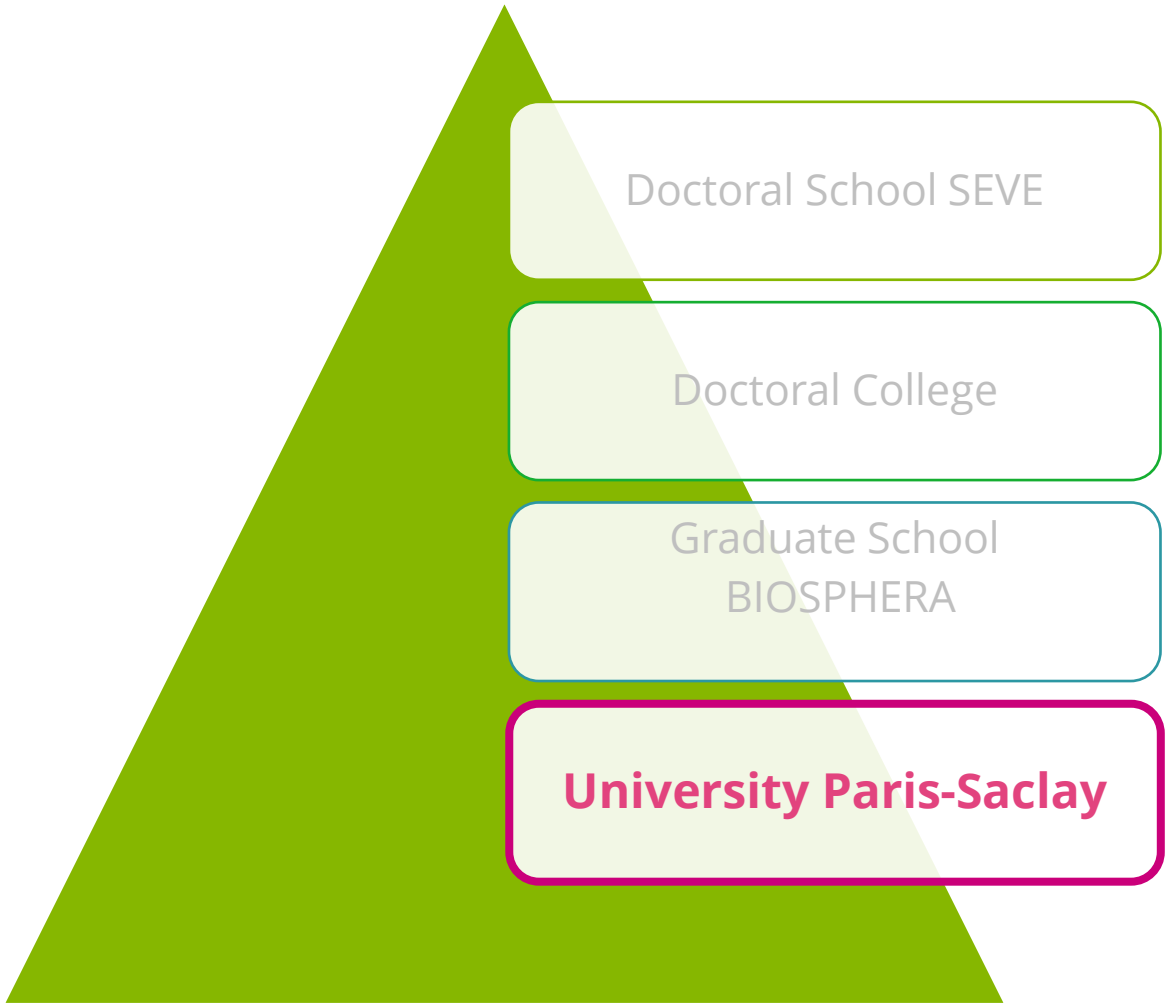
Who are we?



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Université Paris-Saclay – Key figures

A ton avis "Unique" c'est dans le sens "exceptionnel", ou dans le sens "un seul"? Dans ce dernier cas, il faudrait remplacer par "single".

48,000 students

24,000 Undergraduate students

12,000 Master students

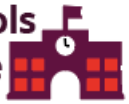
A unique PhD degree

1,300 PhDs per year

4,600 PhD students

21 Doctoral schools

18 graduate schools and 1 institute



8,100 researchers and academic staff

13,000 publications per year

8,500 administrative and technical staff

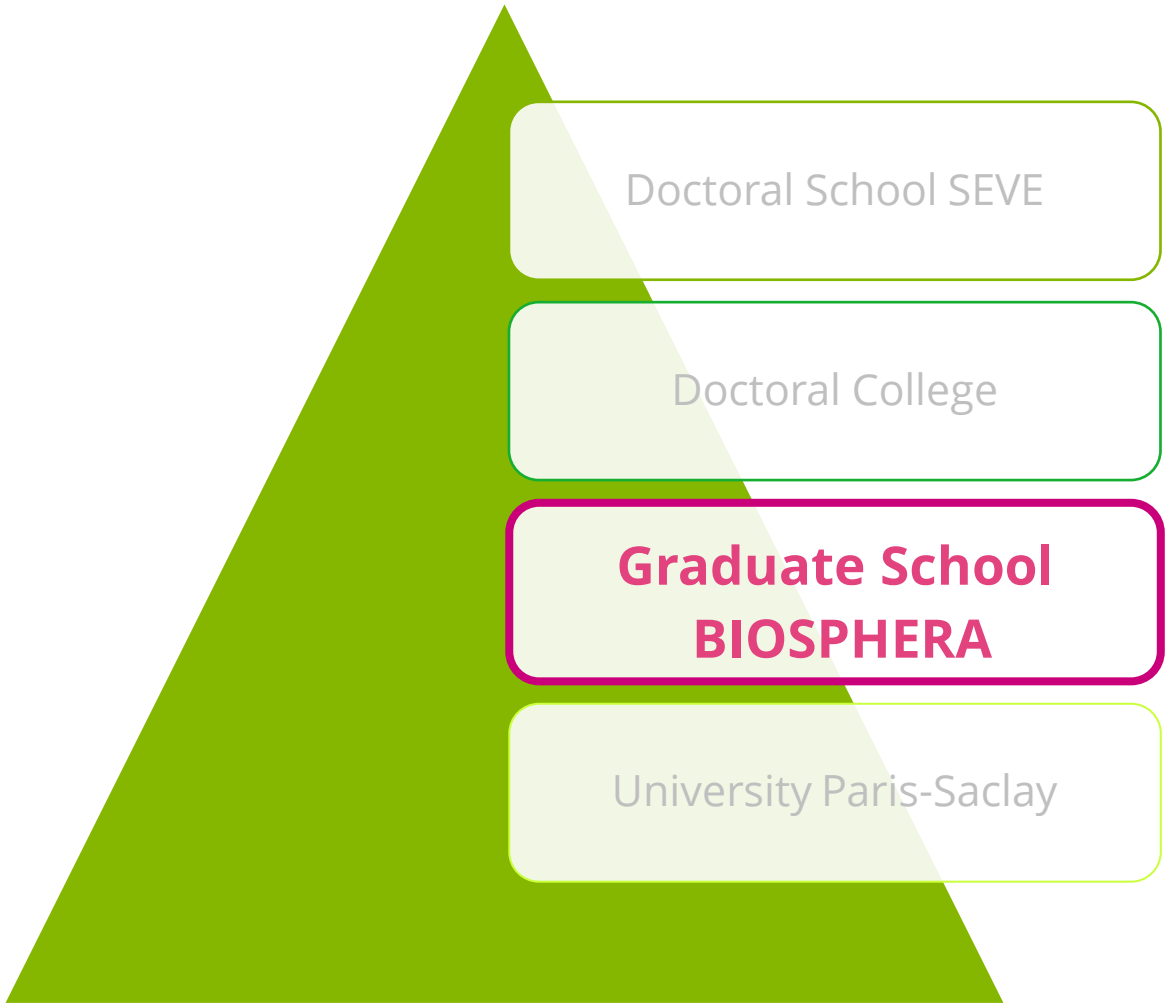
275 LABORATORIES

of French **research**

500 experimental platforms


ACADEMIC RANKING OF WORLD UNIVERSITIES
SINCE 2003
14
ACADEMIC RANKING OF WORLD UNIVERSITIES
université PARIS-SACLAY
Mathematics
1 WORLD
Physics
9 WORLD
Agriculture
12 WORLD
Telecommunications Engineering
23 WORLD
Clinical Medicine
24 WORLD
Automatic and Control
29 WORLD
Statistics
32 WORLD
Biotechnology
35 WORLD
Electrical and Electronic engineering
47 WORLD
Mechanical Engineering
49 WORLD

Who are we?



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"GRADUATE SCHOOLS" AND THEIR MISSIONS

The Graduate Schools include Masters courses, training and research programmes, Doctoral Schools and research teams whose activities are organised around a well-defined theme, discipline or mission.

Graduate Schools aim to:

- make their degrees, graduates and research activities **visible and valuable** at national and international levels
- develop synergies and mutualisation among the actors of the perimeter
- help implement individual or group student projects (ex: funding for summer school)

 https://www.universite-paris-saclay.fr/graduate-schools

17 Graduate Schools

We all belong to the **GS BIOSPHERA**
(Biology, Society, Ecology, Environment, Resources, Agriculture and Food).

Chimie	Computer Science	Éducation, Formation, Enseignement	Métiers de la Recherche et de l'Enseignement Supérieur	Biosphera	
Géosciences, Climat, Environnement, Planètes	Mathématiques	Droit	Economics & Management	Life Sciences and Health	Health and Drug Sciences
Physique	Engineering and Systems Sciences	Humanités – Sciences du Patrimoine	Sociologie et Science politique	Sport Mouvement Facteurs humains	Santé publique

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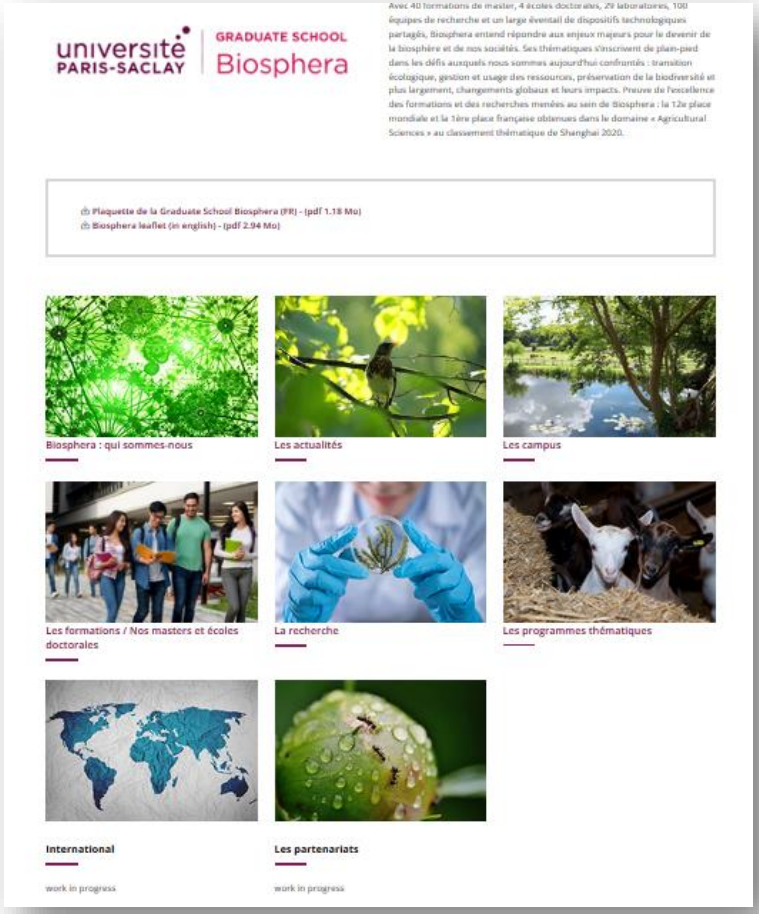
BIOSPHERA GS – MORE INFORMATION

Our internet site:

www.universite-paris-saclay.fr/gs-biosphera



Our newsletter to receive the latest information

To subscribe, please send your request to:
gs.biosphera@universite-paris-saclay.fr

Follow GS Biosphera on LinkedIn

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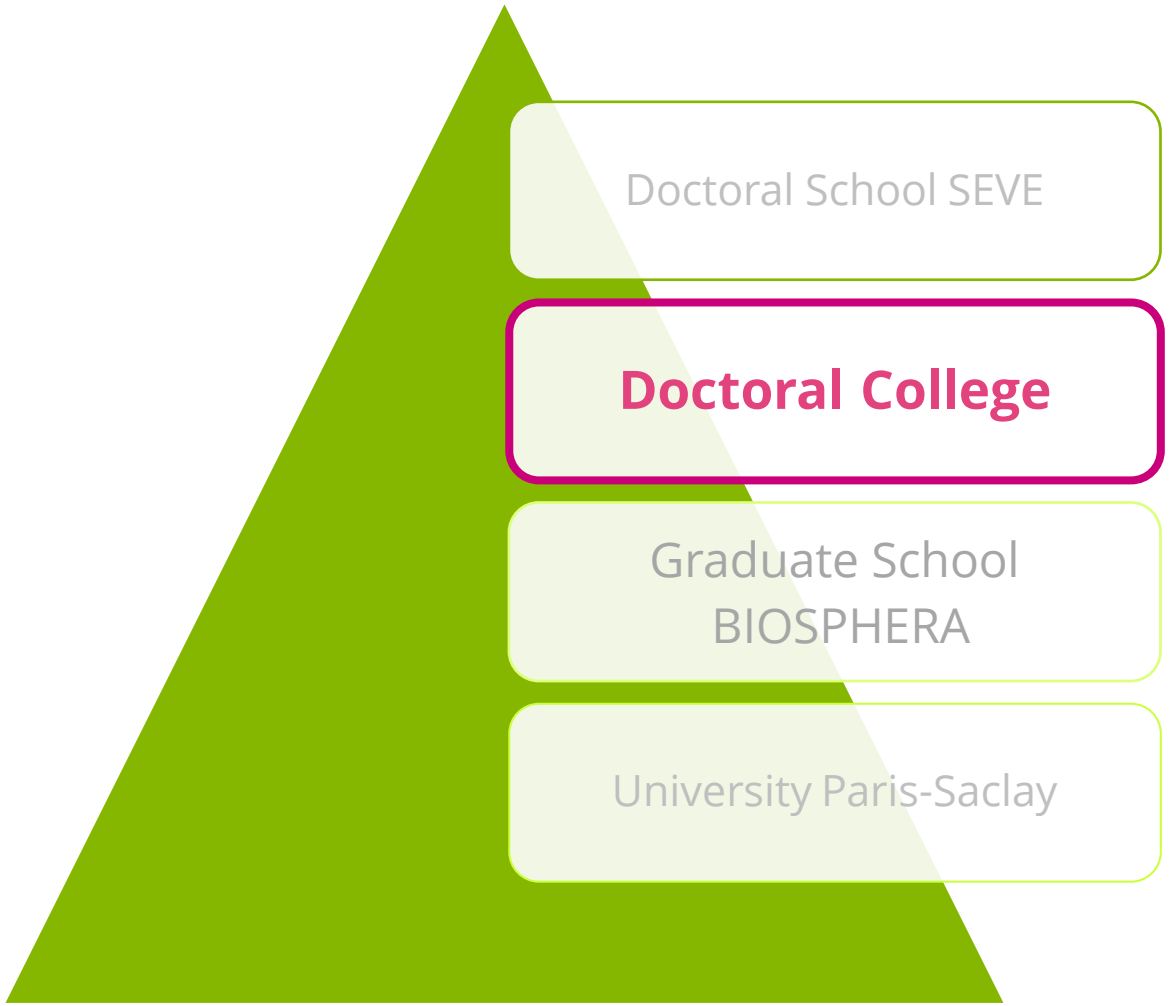
Who are we?



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Doctoral college (Head: Sylvie Pommier)

21 Doctoral Schools

Human Sciences	SDSV	Health	Maths
Physics	SEVE	Agronomy	Etc…

HOUSE OF DOCTORATE

- **Academic services for registration**
- **Transverse training**
- **Employment survey**
- **Graduation Ceremony**
- **International cotutelle**

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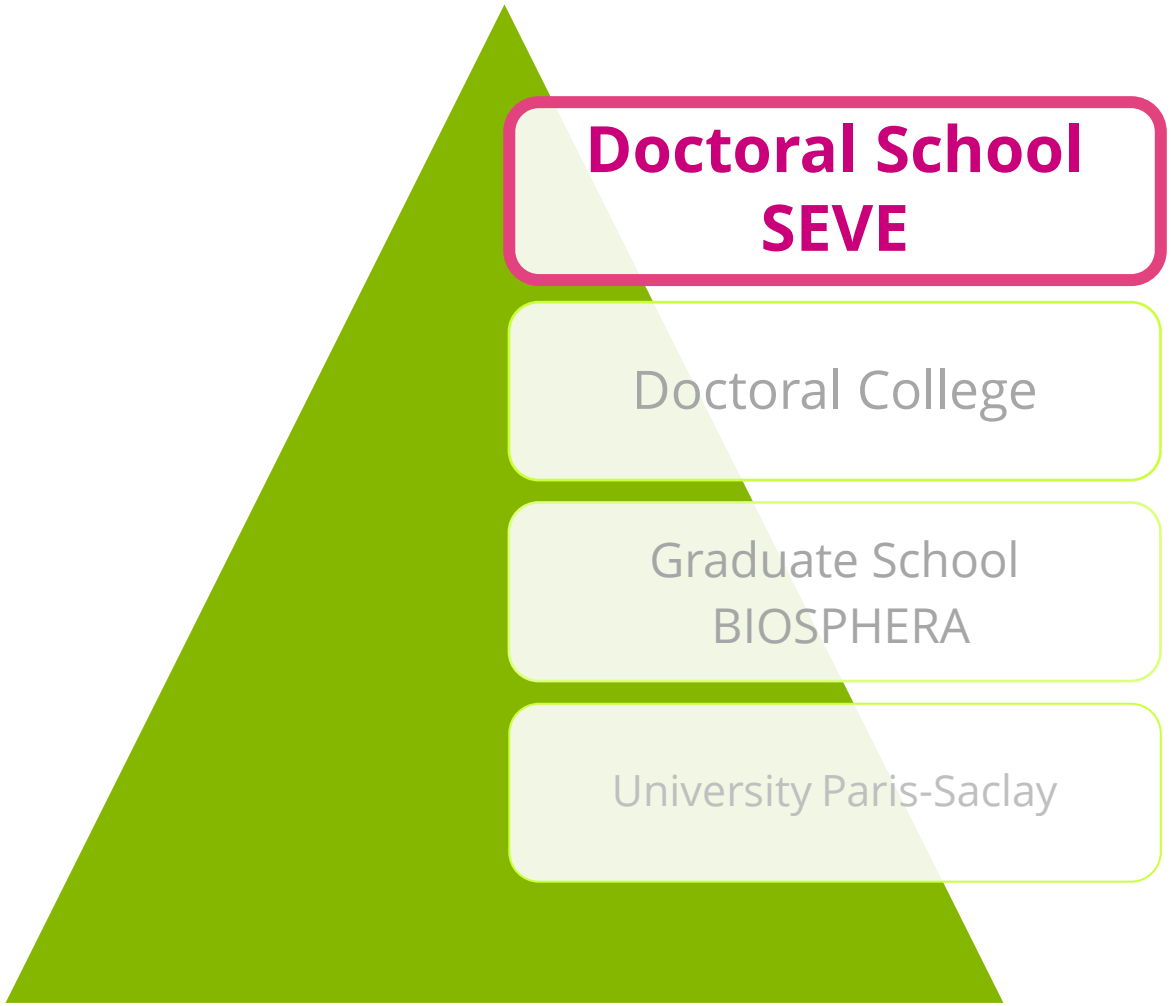
Who are we?



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What is a doctoral school?

- A structure that oversees that doctoral studies proceed well and meet certain standards.

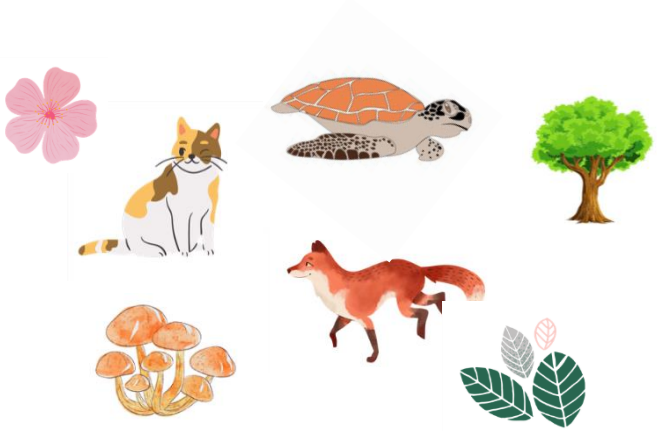
- A structure that provides some services and places some requirements on the supervisors and the students.

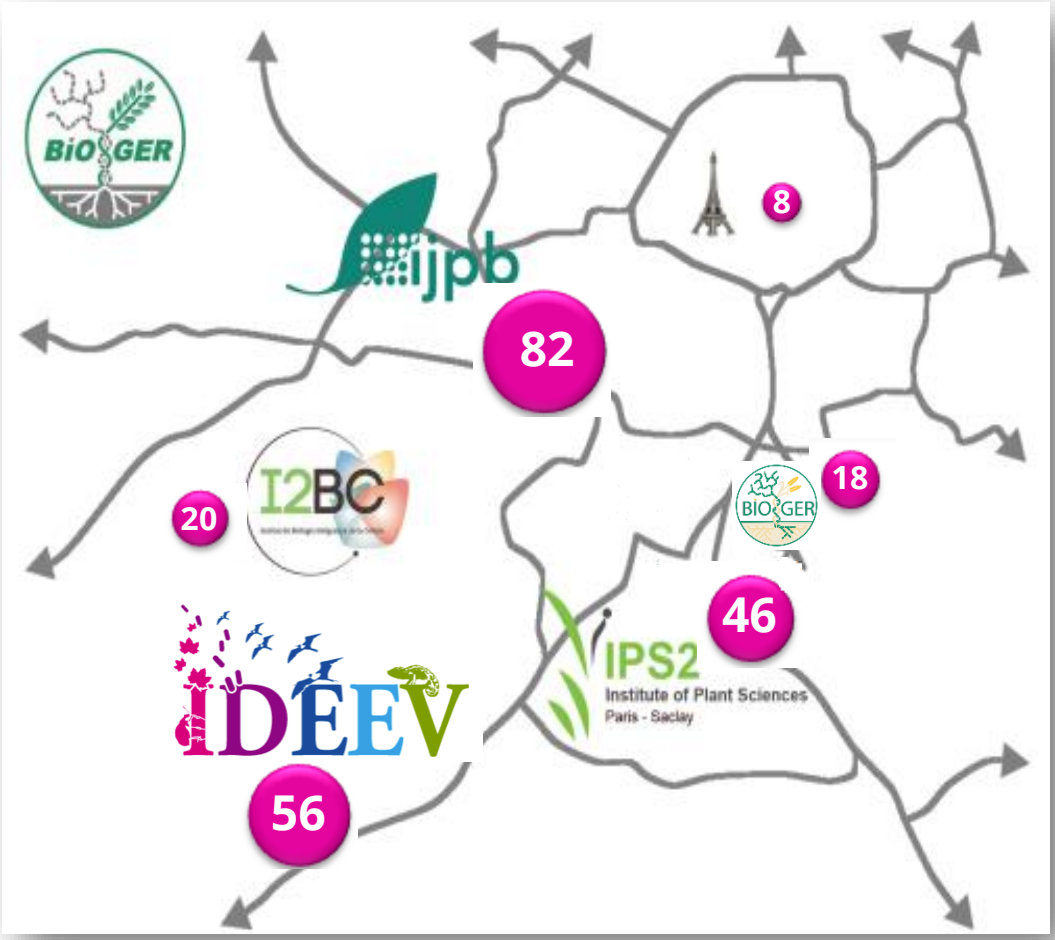
Examples of services offered

- Helping with administration (ex: registration & defence)
- Overseeing thesis committees
- Organising and running some additional training courses
- Establishing a network of professional contacts

Who are we?

~ 100 PhD students
220 Potential supervisors
10 Research Institutes
7 Geographical locations





Researchers staff / site

cnrs INRAE cea université PARIS-SACLAY

An international School

40% of doctoral students are of foreign nationalities

24 nationalities

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International students can get help and information from a reception desk called "GATE".

GATE
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Search

EN FR

Welcome to the GATE desk

WillKommen رحبا بكم 欢迎

A free comprehensive range of services, all gathered in one place, to guide you through your administrative procedures related to your settlement in France. During the re-confinement period, the GATE remains open. All appointments are maintained!

Schedule and appointment

Discover the GATE

Partners and appointments

Our team

Director: Pr. Marianne DELARUE
Email : *marianne.delarue@universite-paris-saclay.fr*
@ IPS2 – Building 630

Deputee Director: Pr. Sophie NADOT
Email : *sophie.nadot@universite-paris-saclay.fr*
@ ESE - IDEEV

Assistant: ?????
Email : *ecodoc.seve@universite-paris-saclay.fr*
@ IPS2 – Building 630 Office 1.103

Expected to start mid-December

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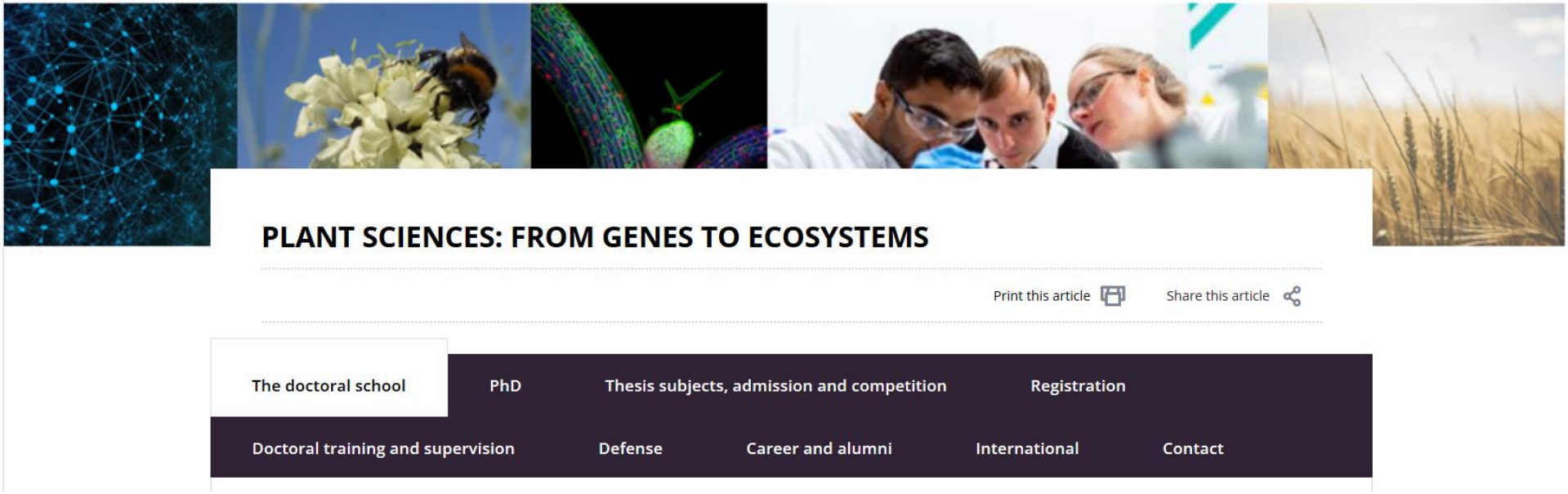
When you have a question VISIT OUR WEBSITE (@ED SEVE) FIRST!



If you can't find the answer **then** e-mail us:
ecodoc.seve@universite-paris-saclay.fr

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Follow Us

https://www.universite-paris-saclay.fr/en/doctoral-schools/plant-sciences-genes-ecosystems

@DocSchoolPLant

@Marianne Delarue

Scoop.it! Doctoral School of Plant Sciences

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Newsletter

Comment dépasser l'angoisse de la page blanche quand on rédige sa thèse?

De www.scriptoria.org • 8 octobre, 12:27

"Rédiger sa thèse : personne ne vous apprend comment faire. Et pourtant, avec des techniques simples et de bon sens, la rédaction est simplifiée. Vous aider à rédiger votre thèse est l'objectif de Scriptoria."

Scoop4 par Doctoral School of Plant Sciences

Upcoming thesis defenses

5 octobre, 16:13

- Kevin ROBIC - 13/10/2020 2pm @I2BC

"Dickeya populations pathogenic of the potato : integrated struggle, structures and genomics of populations"

- Inoussa SANANE - 20/10/2020 2pm @IPS2

"Dynamics of the interaction between maize and corn-borer insects"

Scoop4 par Doctoral School of Plant Sciences

Portrait of Nacera TALBI @Bioger

5 octobre, 14:32

I am Nacera TALBI, from Algeria. After obtaining an Engineer degree in Agronomy, I moved to France to study molecular plant pathology, and I'm, since October 2018, PhD student in the BIOGER Unit on a project focusing on molecular interactions between a fungal pathogen, *Lagtosphaeria maculans*, and its host plant, oilseed rape. During infection, fungi secrete an arsenal of molecules, called effectors, key elements of pathogenesis that facilitate infection. The aim of my project is to functionally characterize a multigene effector family of *L. maculans* by answering the following questions: (i) What is their expression kinetics during infection? (ii) Are these effectors conserved

Scoop4 par Doctoral School of Plant Sciences

Alumni's Corner : Bastien MALBERT

5 octobre, 15:04

I started as an agronomic student in an engineering school and then I continued my studies with a PhD, at the very beginning of the IPS2, in 2015. I was working on plant organellar gene expression in plants during infection by pathogens, especially RNA maturation. Supervised by Claire Lurin and Etienne Delannoy, I defended my PhD in December 2018. As I was convinced that INRAe/CNRS competitions for positions involved too many sacrifices, I started looking for a researcher position in a private company. In February 2019, I started as an agronomic engineer at ARVALIS – Institut du végétal, a private-public organization, on a one-year contract. ARVALIS is an applied agricultural research institute founded by farmers and dedicated to several crops. Located in the south of Essonne, I worked on a decision-making tool to manage the *Phytophthora infestans* risk on potato crops, named Mileos®. Besides helping farmers and technicians using the tool, I performed statistical analyses of our data for the potato industry sector and helped improving the predictive model. This first position was really stimulating because I was working with people from so many different backgrounds on a lot of different projects. But even if I learnt and enjoyed a lot this position, I understood that to feel complete, I really needed to stay close to a lab bench.
Since January 2020, I am a postdoctoral researcher at Bayer CropScience, in Lyon, on a two-years position. I am currently studying RNA splicing in plant pathogenic Fungi and looking for a way to modulate it using small molecules. What I especially enjoy in this postdoc is that based on a general idea, targeting the splicing, you are expected to build the project by yourself. It is extremely intellectually challenging but also really rewarding.
Looking back now, I think that all the training courses offered by the university were a great opportunity, to learn about different subjects and from different people. Meeting former PhD students was a great opportunity to discover jobs I couldn't even imagine, and to determinate what kind of work I would like to do, but also what I won't. Please feel free to contact me on LinkedIn if you want to discuss!

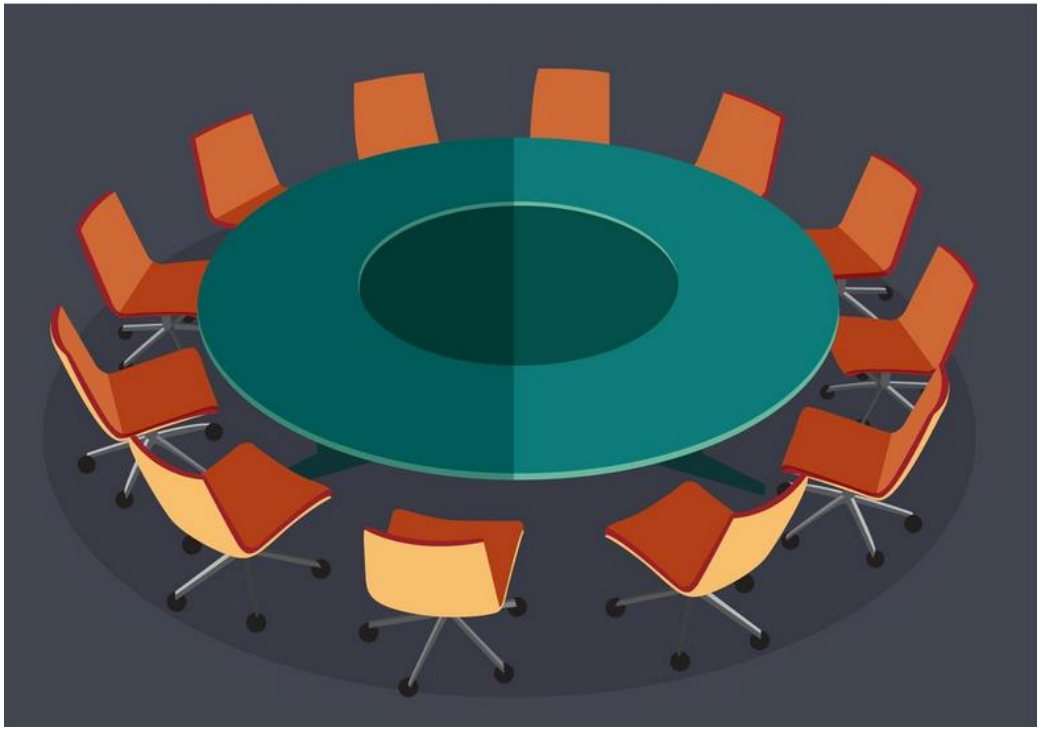
Scoop4 par Doctoral School of Plant Sciences

Portrait of Juan Camilo Alvarez @IPS2

A board

- In charge of the organization and advices for operating the doctoral school and organising the annual competition.

- 5 meeting / year



This board includes members from the different research institutes and among them

8-10 PhD elected student representatives

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Role of elected doctoral student representatives

- Bring to the attention of the board, **problems or suggestions** in the organisation of the ED in consultation with their fellow doctoral students.

- Attend the annual competition as observers to ensure that everything is done in a **fair and transparent manner**.

- Linking with the **Doc en Herbe PhD students' association**

We need at least 3 more PhD students in the board.

Email the doctoral school if you want to apply, you'll be welcome

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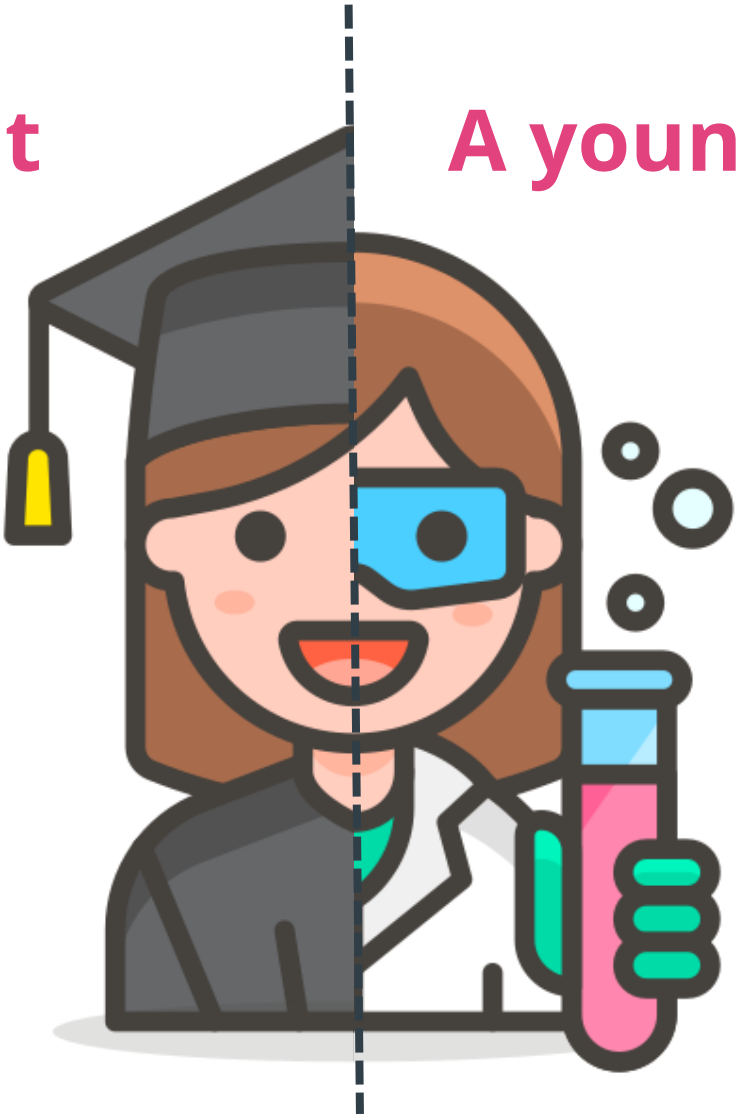
What is a PhD student?

A student

A young researcher



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What is a PhD student?

A student

A young researcher

What are you here to become?

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You are here to become:

'Creative, critical, autonomous intellectual risk takers'

- You know how to find answers
- You do not fear failure, you learn from it
- You are comfortable with uncertainty
- You do not reproduce/copy-paste information, you create it
- You enjoy competition and collaboration
- You are qualified for almost any industry or public research position

To go further:

- Doctoral graduates are the **drivers** of their professional development
- They should **break down boundaries** with other research fields
- They should have a **global outlook**
- And be linked to **other sectors of society**

* Training Talented Researchers for Society' LERU 2010

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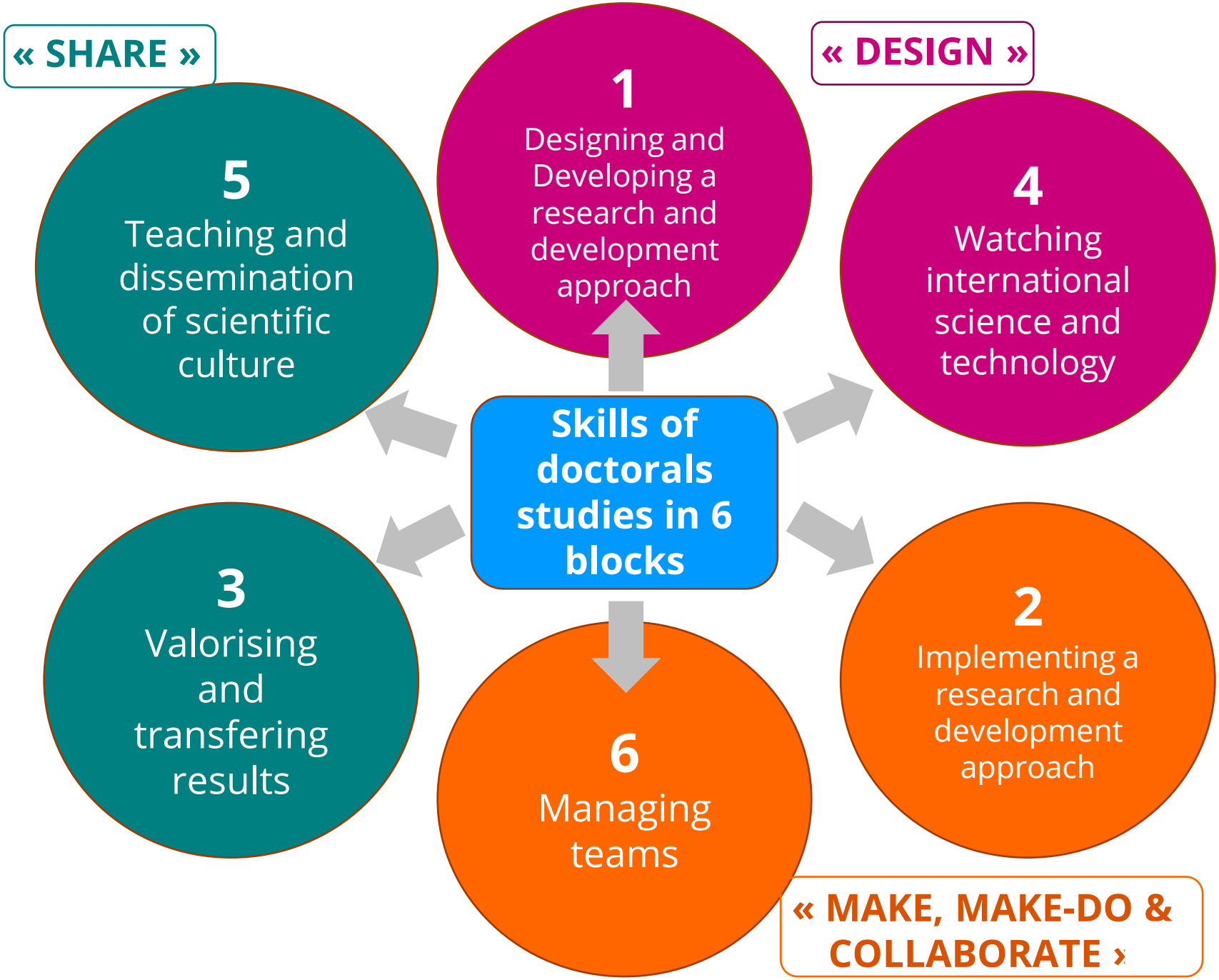
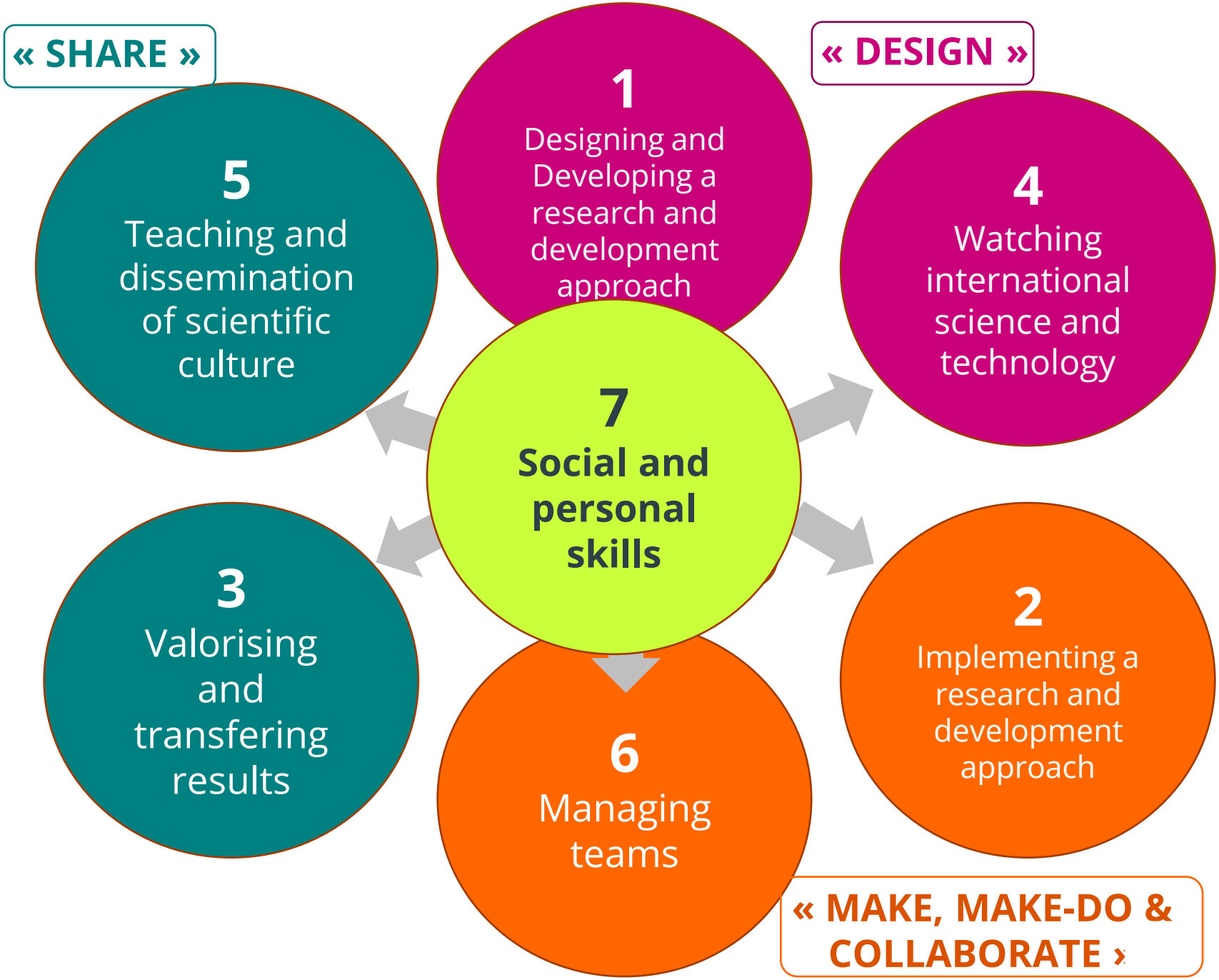
Since 2019, the PhD is recognized as a professional degree!

This corresponds to a national referential (RNCP) which attributes the skills acquired at the end of each diploma.

For the doctorate, these skills have been classified into 6 blocks.


« SHARE »
« DESIGN »
1
Designing and Developing a research and development approach
4
Watching international science and technology
5
Teaching and dissemination of scientific culture
Skills of doctorals studies in 6 blocks
3
Valorising and transfering results
2
Implementing a research and development approach
6
Managing teams
« MAKE, MAKE-DO & COLLABORATE »


« SHARE »
« DESIGN »
1
Designing and Developing a research and development approach
2
Implementing a research and development approach
3
Valorising and transfering results
4
Watching international science and technology
5
Teaching and dissemination of scientific culture
6
Managing teams
7
Social and personal skills
« MAKE, MAKE-DO & COLLABORATE »

Request for additional training courses to:

- Identify and develop your professional skills to prepare your career
- Manage your professional development
- Learn how to transfer your expertise to other sectors
- Set ambitious but realistic career goals
- Discover professional sectors and careers relevant to a PhD
- Meet professionals and choose a career that suits you

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Selection of training courses:

About 125 hours during all your thesis
(corresponding to 25 credits/points, 1 point = 5 hours)

Examples:

- 1/3 research skills (ex: bioinformatics, congress, etc…)
- 1/3 general skills (ex: foreign languages, involvement in **various boards** or association, stress management, etc…)
- 1/3 training for your future (Knowledge of the company, self-knowledge, etc…)

Your supervisor and thesis committee may suggest the training opportunities you need.

There are also various tracks that you can follow during all of your thesis:

- Parcours « Enseignant du supérieur» / *Instructor in higher education or lecturer-researcher*
- Parcours « R&D en entreprise » / *Research, within the private sector R&D*
- Parcours « Conseil et expertise en innovation» / *Consulting, studies and expertise, IP expertise, prospective and strategy*
- Parcours « Les Doctor'preneuriales » / *Entrepreneurship and innovation*
- Parcours « Médiation, communication et journalisme scientifiques» / *Scientific mediator, scientific communications and journalism*
- Parcours «Valorisation de projets de recherche innovants : du concept au marché » / *Valuation of innovative research projects: from concept to market*

Two types of training are mandatory:

- **Training in Ethics and Scientific Integrity**
  - MOOC POLETHIS (registration via ADUM every 3 month)

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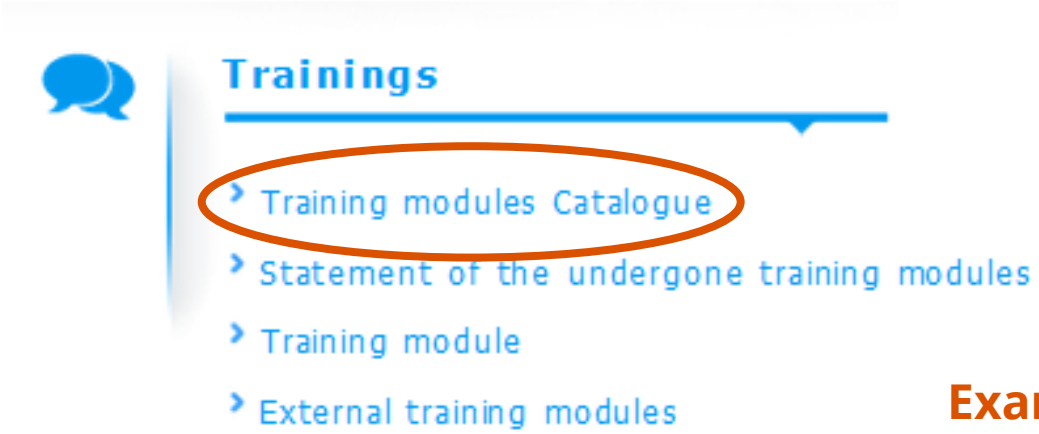
  - MOOC Université Bordeaux

FUN FRANCE UNIVERSITÉ NUMÉRIQUE

- Raising awareness in **sustainable development**

Where to find it?

In your ADUM Digital Space:

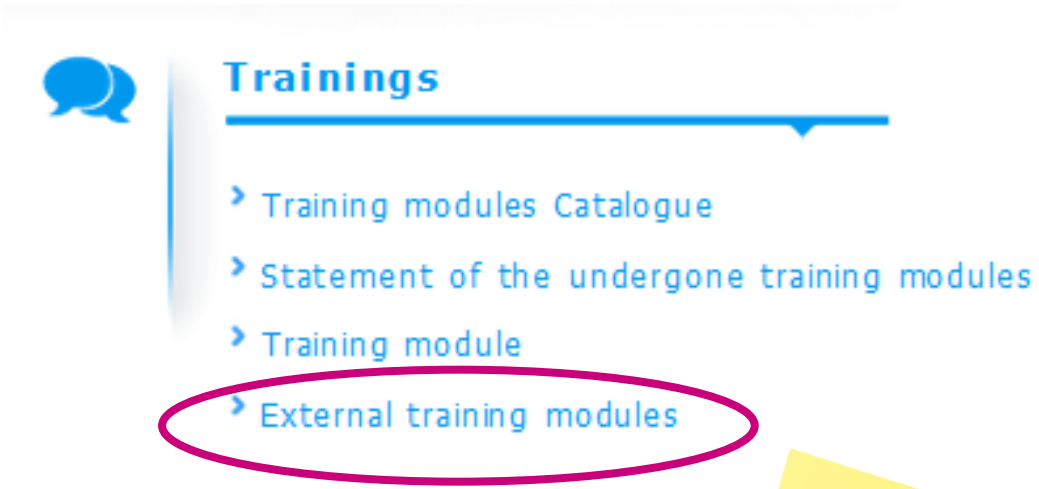


Examples:

- R & D in companies
- How to write a Paper?
- French for foreigners
- Scientific communication
- How to deal with stress?

Out-of-catalogue training

In your ADUM Space:



Examples:

- Attending a congress
- Participating to a forum (Biotechno)
- Validating Master modules or MOOCs
- **Associative commitment**
- **Serve on a board**
- Etc…

When you have taken a course, fill in the informations in ADUM

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Optional non-research activities
(15% more salary)

Examples:

- Monitorat / teaching
- Awareness and popularisation of science

The list of possible activities is published by the House of Doctorate in July. You will receive this information.

All these activities are valued as additional training

A training plan is available on our web site to help you track your training and translate it into points

Indicate below the courses and other activities

YEAR 1

	Equivalence point / hours	hours (*)	points (*)	Aim of the course/activity (*)	skill block (**)
COURSE 1: (name of the course)	1pt = 5h				to be completed (see **)
COURSE 2: (name of the course)	1pt = 5h				to be completed (see **)
COURSE 3: (name of the course)	1pt = 5h				to be completed (see **)
...	1pt = 5h				
...	1pt = 5h				
...	1pt = 5h				
CONFERENCES national/international	1pt/communication****				4
PhD DAYS (3pts max)	1pt = 1 day of presence				4
SEMINARS or SUMMER SCHOOLS (3pts max /year)	1pt = 1 day (5h)				4
TEACHING (6pts max in 3 years, min. 10 ETD max 64 ETD/year)	5pts=25 ETD + 7 pts initial training				5 & 7
SCIENTIFIC MEDIATION MISSION (32d max)	5pts=20d + 7pts initial training				5 & 7
EXPERTISE or VALORISATION MISSION (32d max)	5pts=20d + 7pts initial training				2 or 3
COMMITMENT IN ASSOCIATIONS (3pts max /year)	1 to 3 pts***				6 & 7
COMMITMENT IN ACADEMIC COUNCILS (3pts max /year)	1 to 3 pts***				6
MENT IN ORGANISATIONAL COMMITTEES (3pts max /year)	1 to 3 pts***				4 & 7
SUPERVION OR COACHING OF STUDENTS	1 to 3 pts***				6 & 7
		0	**0**		

YEAR 2

	Equivalence point / hours	hours (*)	points (*)	Aim of the course/activity (*)	skill block (**)
COURSE 1: (name of the course)	1pt = 5h				to be completed (see **)
COURSE 2: (name of the course)	1pt = 5h				to be completed (see **)
COURSE 3: (name of the course)	1pt = 5h				to be completed (see **)
...	1pt = 5h				
...	1pt = 5h				
...	1pt = 5h				
CONFERENCES national/international	1pt/communication****				4
PhD DAYS (3pts max)	1pt = 1 day of presence				4
SEMINARS or SUMMER SCHOOLS (3pts max /year)	1pt = 1 day (5h)				4
TEACHING (6pts max in 3 years, min. 10 ETD max 64 ETD/year)	5pts=25 ETD				5 & 7
SCIENTIFIC MEDIATION MISSION (32d max)	5pts=20d				5 & 7
EXPERTISE or VALORISATION MISSION (32d max)	5pts=20d				2 or 3
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MENT IN ORGANISATIONAL COMMITTEES (3pts max /year)	1 to 3 pts***				4 & 7
SUPERVION OR COACHING OF STUDENTS	1 to 3 pts***				6 & 7
		0	**0**		

Personnal skills portfolio

This portfolio is a tool, helping you to **evaluate yourself** throughout your thesis to:

- **identify yours skills**
- **formalise your skills and communicate about them**.

My Skills Portfolio

It is personal and not mandatory
available on our web site

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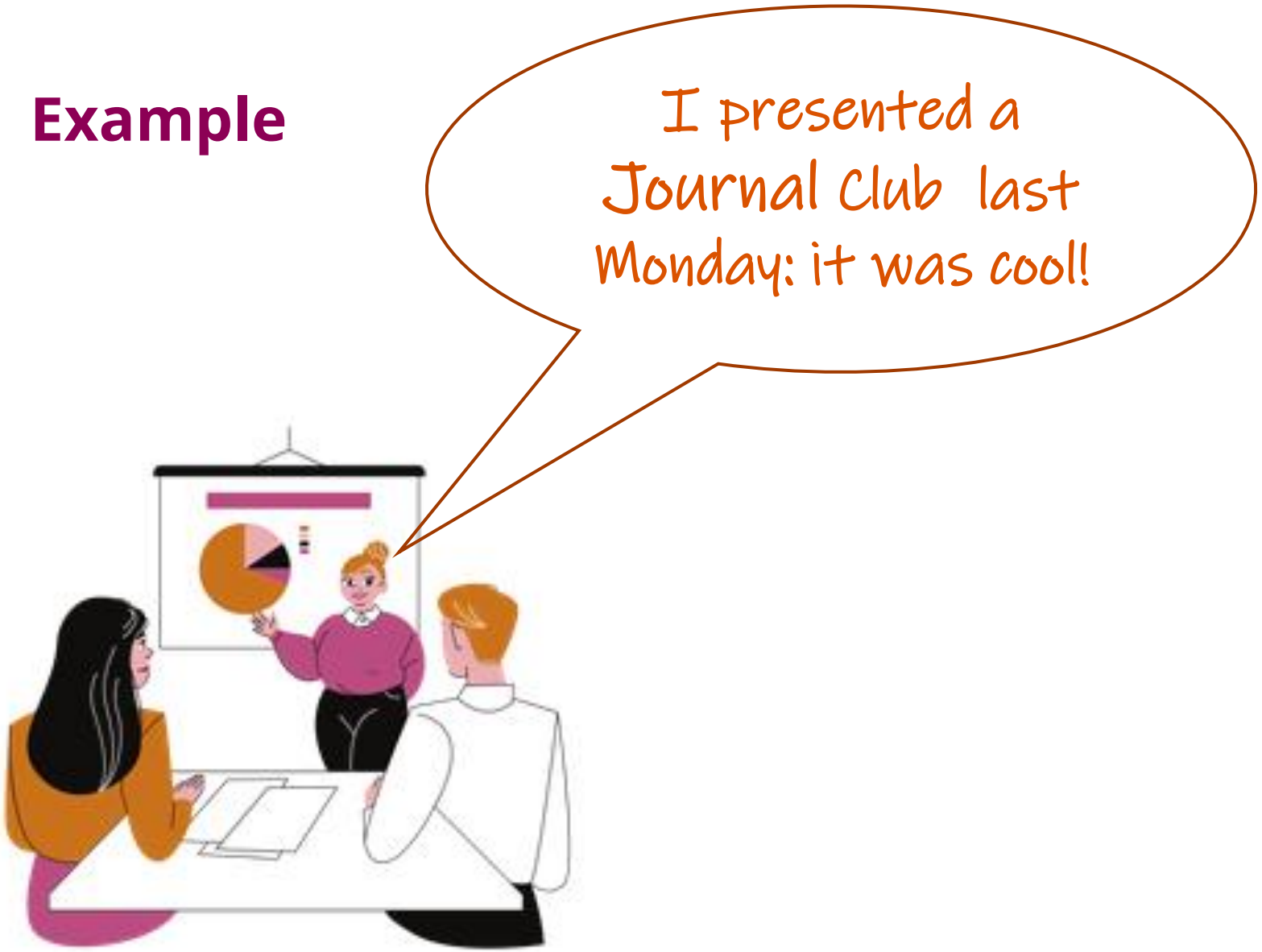
Example



Translated in professional skills:

= International science and technology watch

- ✓ *I am able to acquire, synthesise and analyse internationally advanced scientific and technological data and information*
- ✓ *I have an understanding, hindsight and critical eye for all the cutting-edge information available*

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The progress of your thesis

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TIMELINE OF YOUR THESIS

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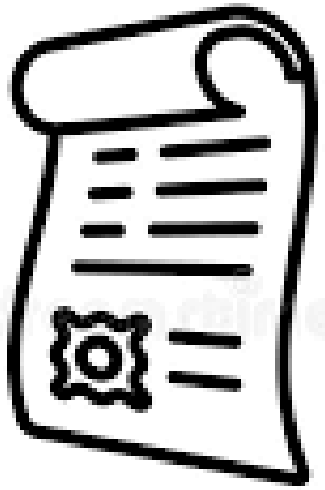
DOCTORAL CHARTER

The **rights and duties** of each actors are available in the doctoral charter which, at the time of your registration, was signed (materially and digitally) by:

c'est toujours le cas matériellement ?

- Yourself
- Your thesis director
- The head of your Institute
- The direction of the doctoral school



Please, read it!

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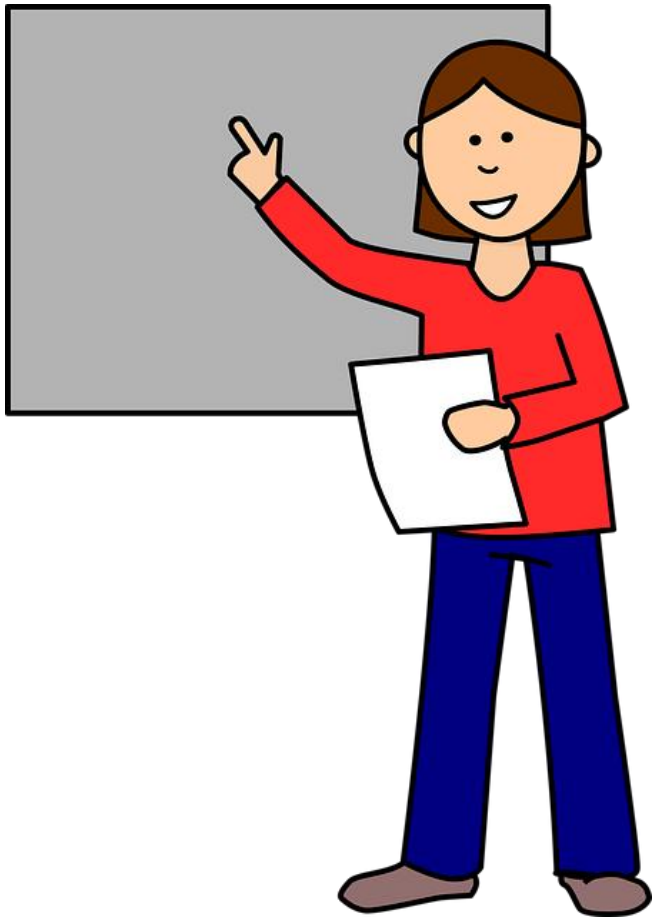
Presenting your project to the board

Each new doctoral student (except those who passed the competition) must **present himself and his or her thesis project** to the board.

You will be notified by us ahead.



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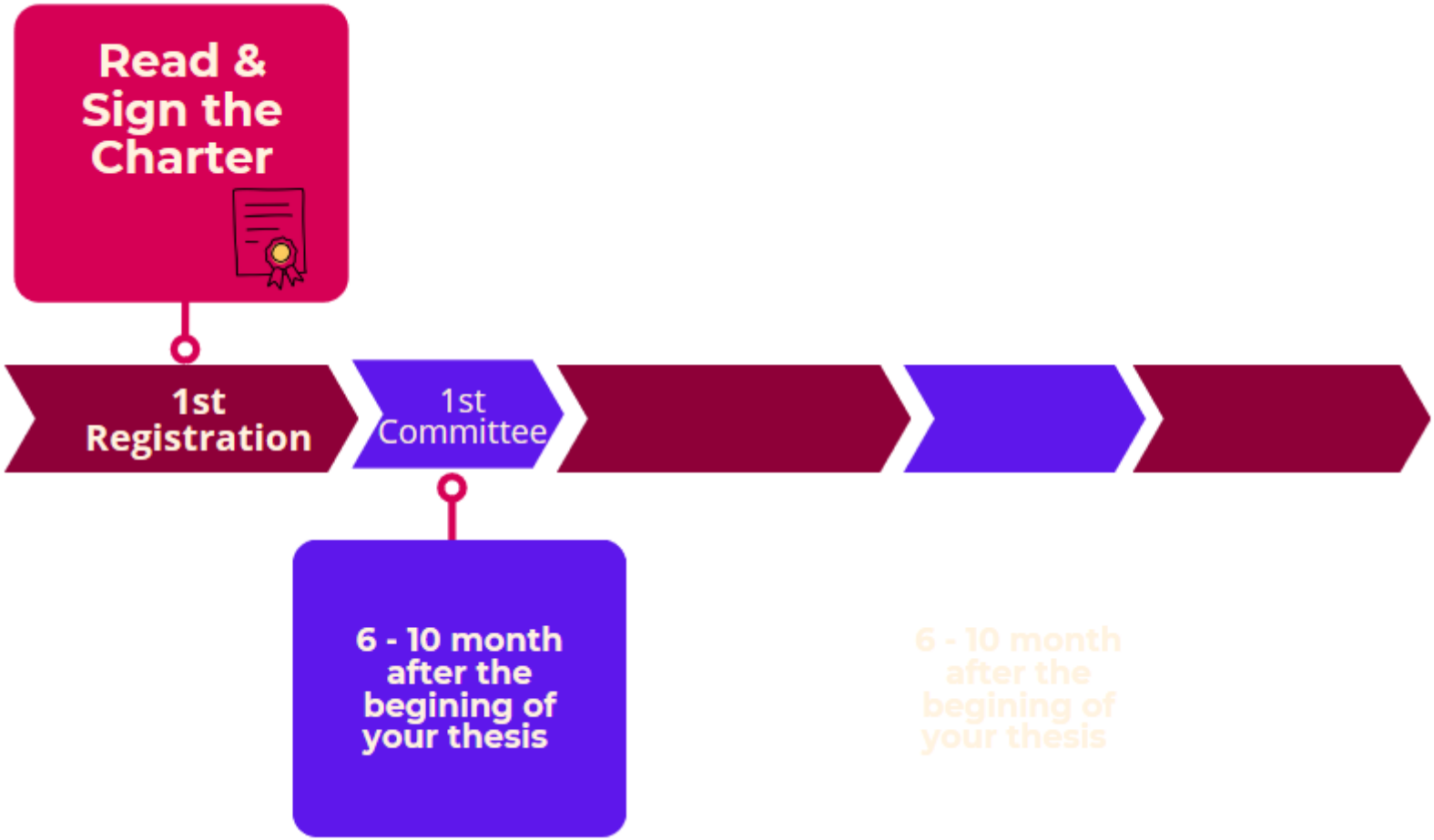
TIMELINE OF YOUR THESIS



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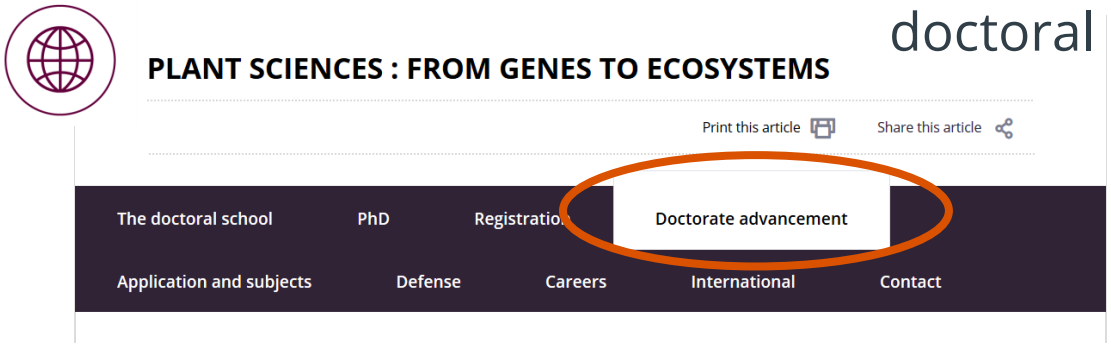
THE INDIVIDUAL THESIS MONITORING COMMITTEE

An individual thesis monitoring committee **ensures the smooth running** of the programme on the basis of the doctoral charter and the training agreement.

The thesis monitoring committee does not replace the doctoral supervision teams, but acts as a complement, offering a **neutral, constructive and external point of view** on the progress of the doctoral project.



MANDATORY

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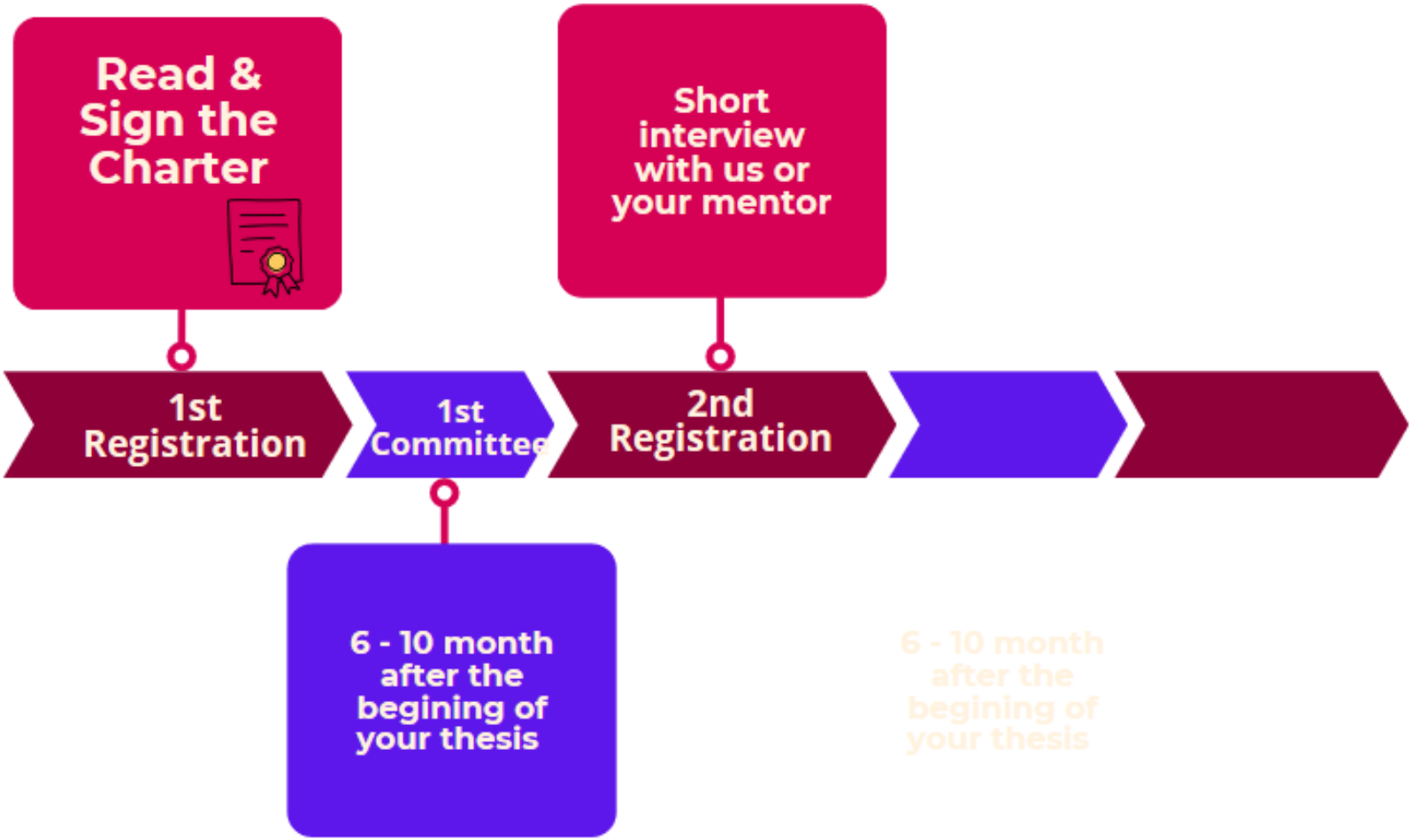
TIMELINE OF YOUR THESIS



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Once a year we'll have a short meeting with you before validating your re-registration at university.

This can be done in the form of an interview with a **mentor ("marraine, parrain")** , a list of whom is available on our website.

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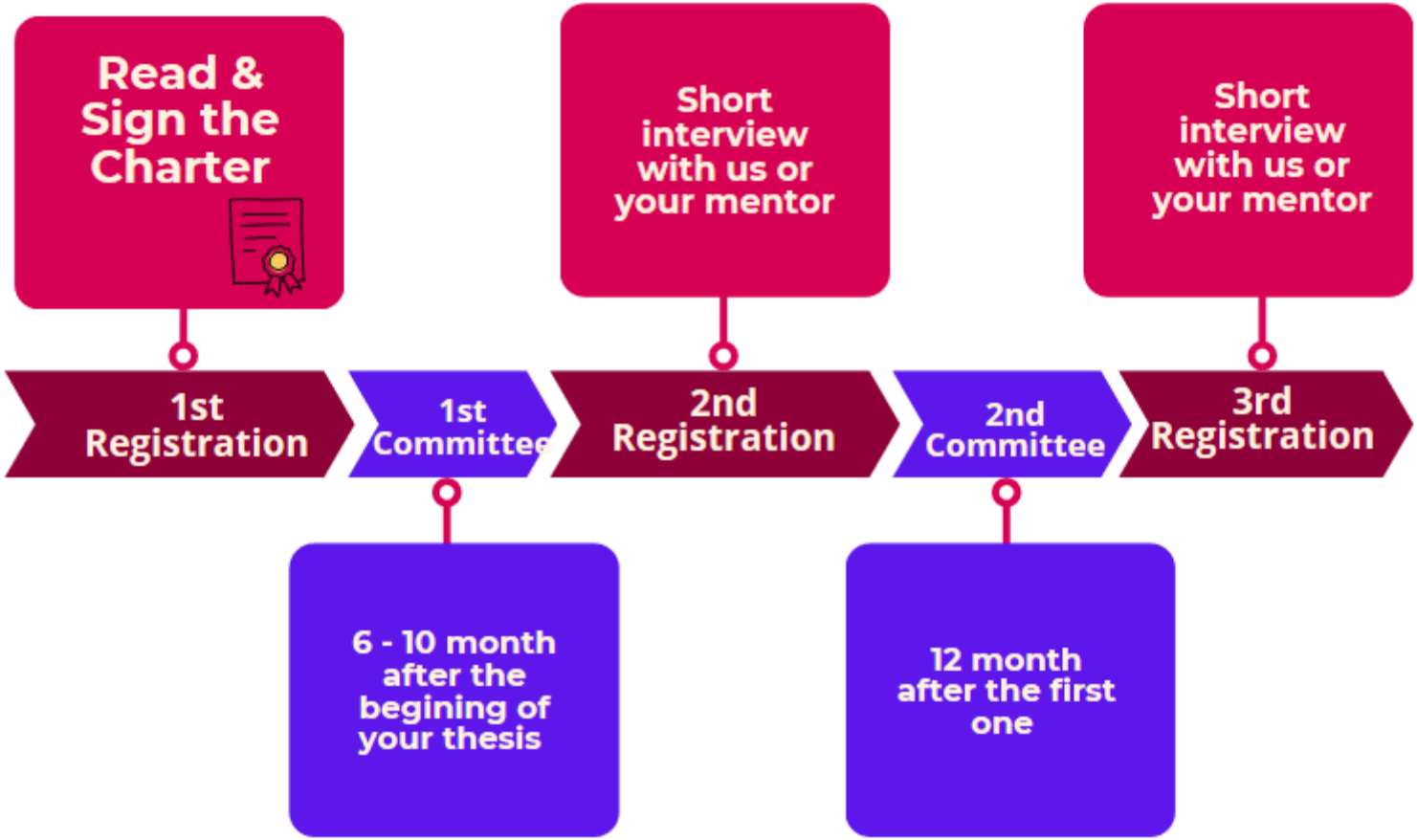
TIMELINE OF YOUR THESIS



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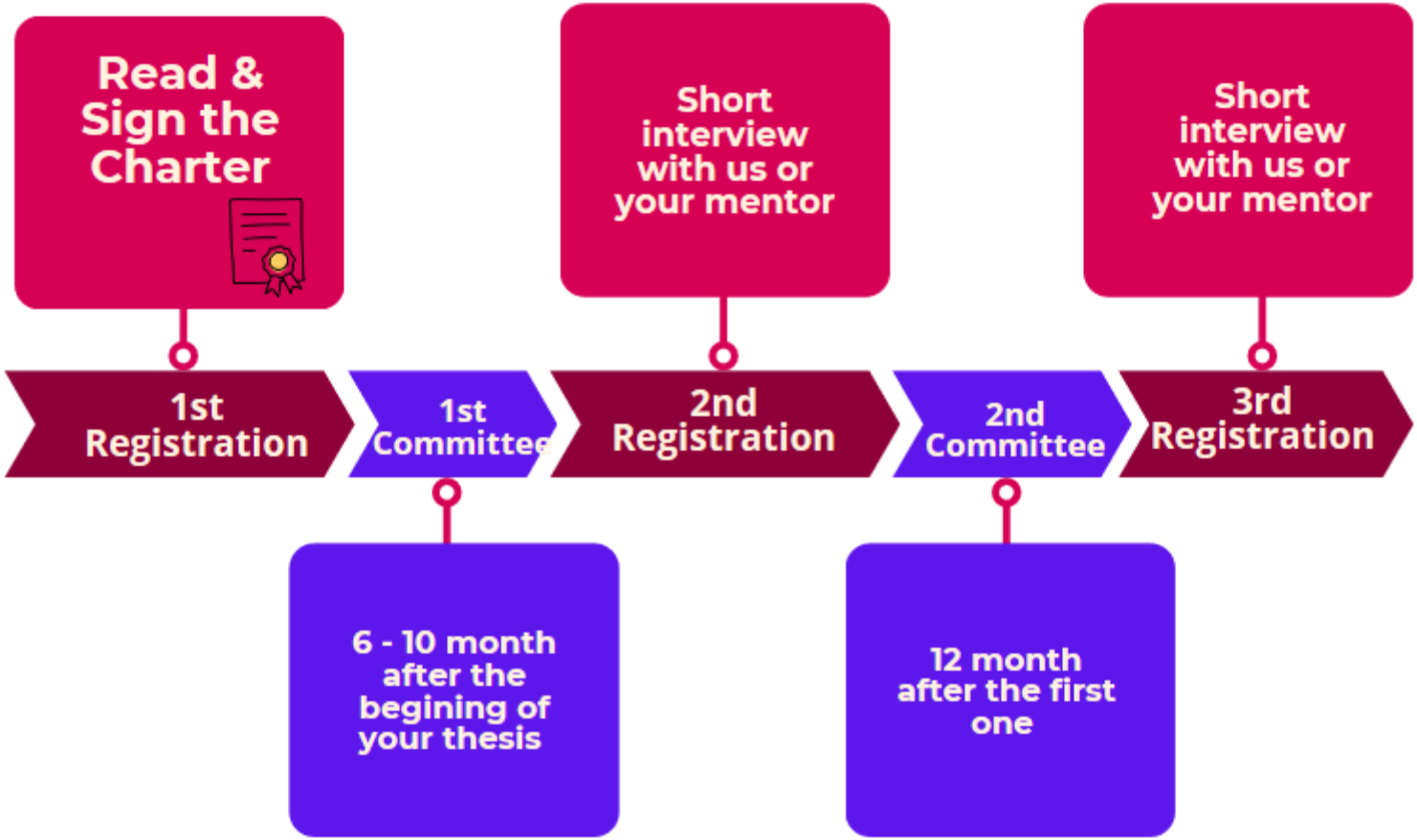
TIMELINE OF YOUR THESIS



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TIMELINE OF YOUR THESIS

At least 2 month before the defense

Designation of the jury

DEFENSE !

Re-registration not necessary if defense before 31 December

PREPARE YOUR DEFENSE

The thesis defense procedure must be initiated by the doctoral student at **least 2 months before the planned date**. This procedure is entirely digital through **ADUM.**

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FINISH YOUR THESIS ON TIME

- Most of you have a contract for 3 years. When you are unemployed, **YOU ARE ALSO NO LONGER LEGALLY COVERED TO WORK IN YOUR LAB** and if you are foreign, you could, legally, be deported.

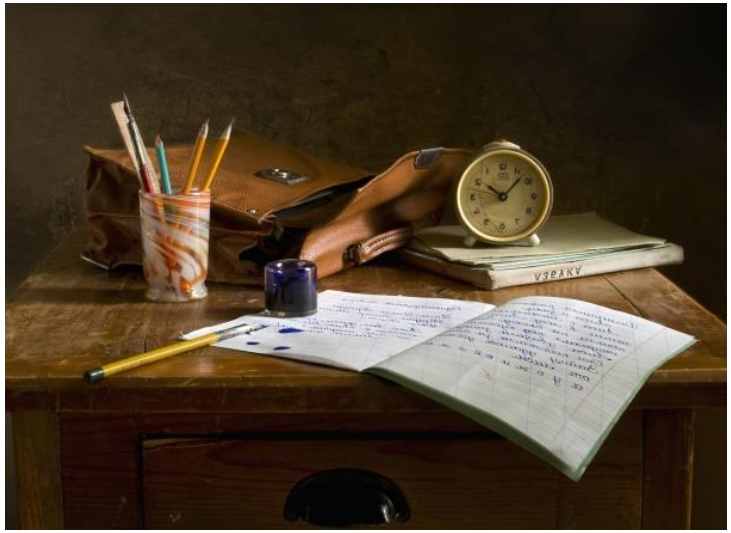
SO PLEASE, PLAN AHEAD !

If you need to extend your these beyond 36 months, you must be funded.

FINISH YOUR THESIS ON TIME

A good way to help get things done in a reasonable time is to start writing AS EARLY AS POSSIBLE.

IT IS NEVER TOO EARLY TO WRITE DOWN YOUR IDEAS!



For the defense, an article as first author is request. We also accept:

- ❑ Reviews (good idea to make the most of the thesis introduction)

- ❑ Pre-print deposit in Open source platforms

Ex:

bioRχiv beta
THE PREPRINT SERVER FOR BIOLOGY

Peer Community In Ecology
Free and transparent preprint and postprint recommendations in ecology

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Starting 1st January 2023, you will have to swear an oath at the end of your defense about your scientific integrity

"In the presence of my peers. With the completion of my doctorate in [field], in my quest for knowledge, I have carried out demanding research, demonstrated intellectual rigour, ethical reflection, and respect for the principles of research integrity. As I pursue my professional career, whatever my chosen field, I pledge, to the greatest of my ability, to continue to maintain integrity in my relationship to knowledge, to my methods and to my results".

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Designation of the jury

DEFENSE !

Keep in touch

5 Years

6 - 10 month
At least 2 month before the defense

after the beginning of the thesis

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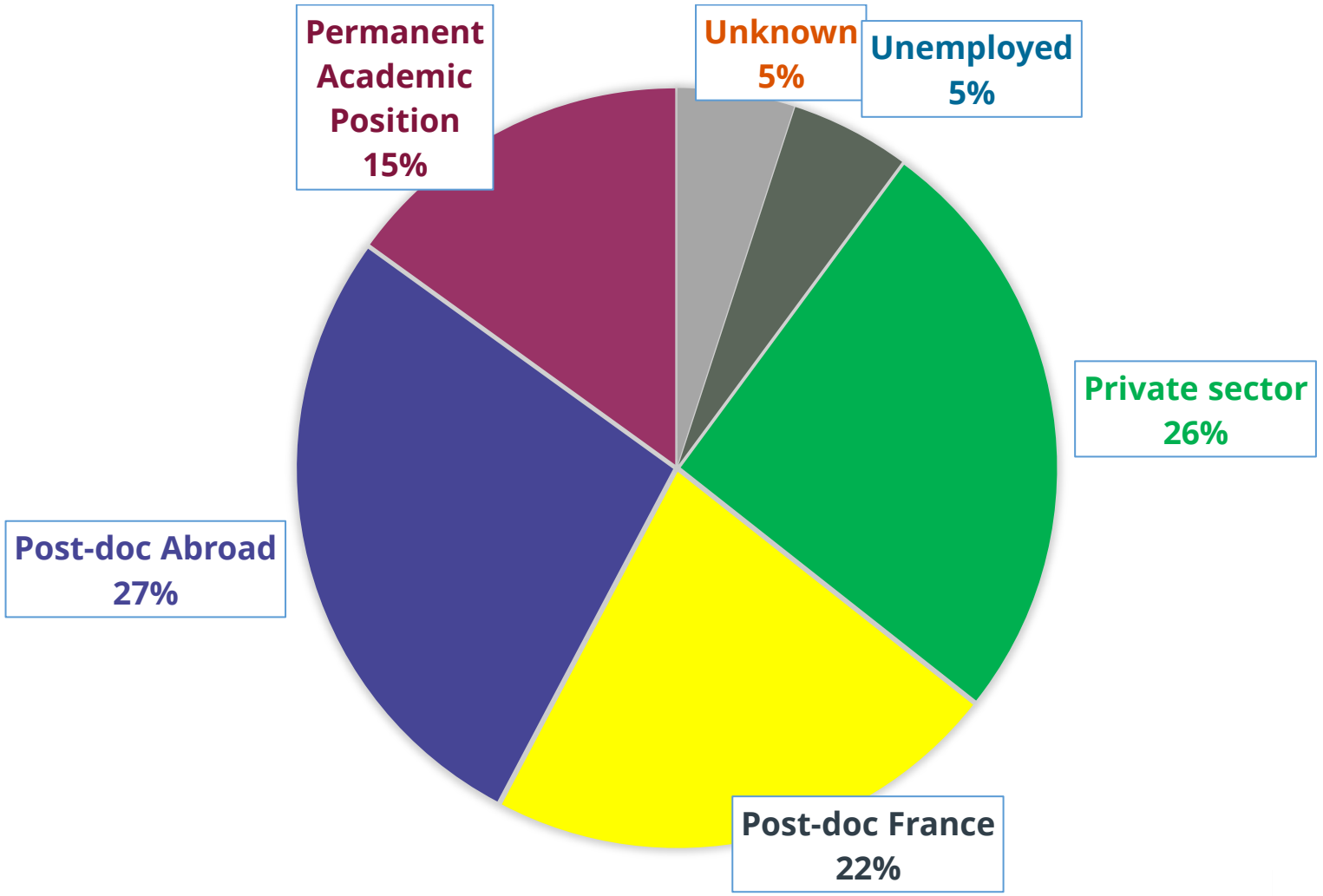
Professional integration of PhD graduates in 2018 & 2019 (n= 60)



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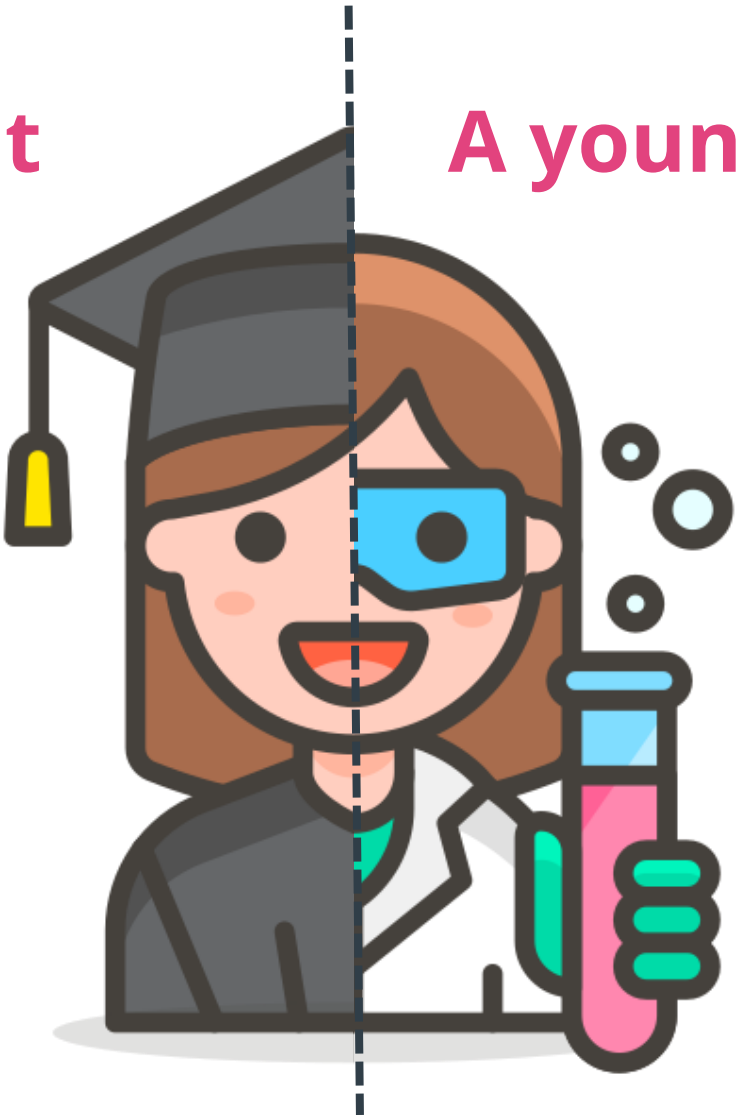
A Few tips to finish

A student

A young researcher



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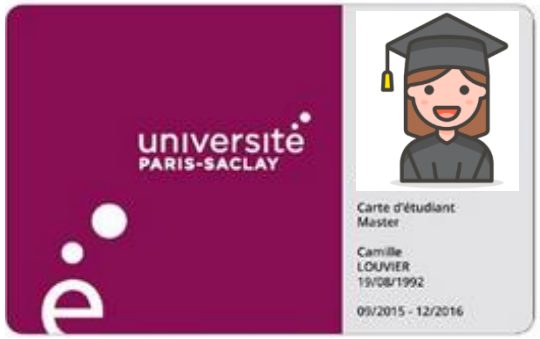
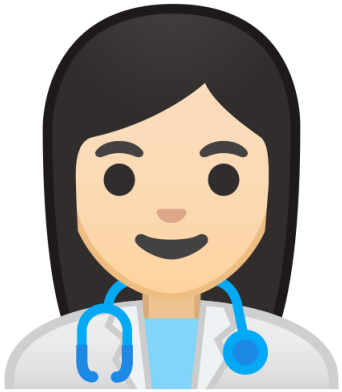
A Student…



You have access to all the Campus life and student facilities



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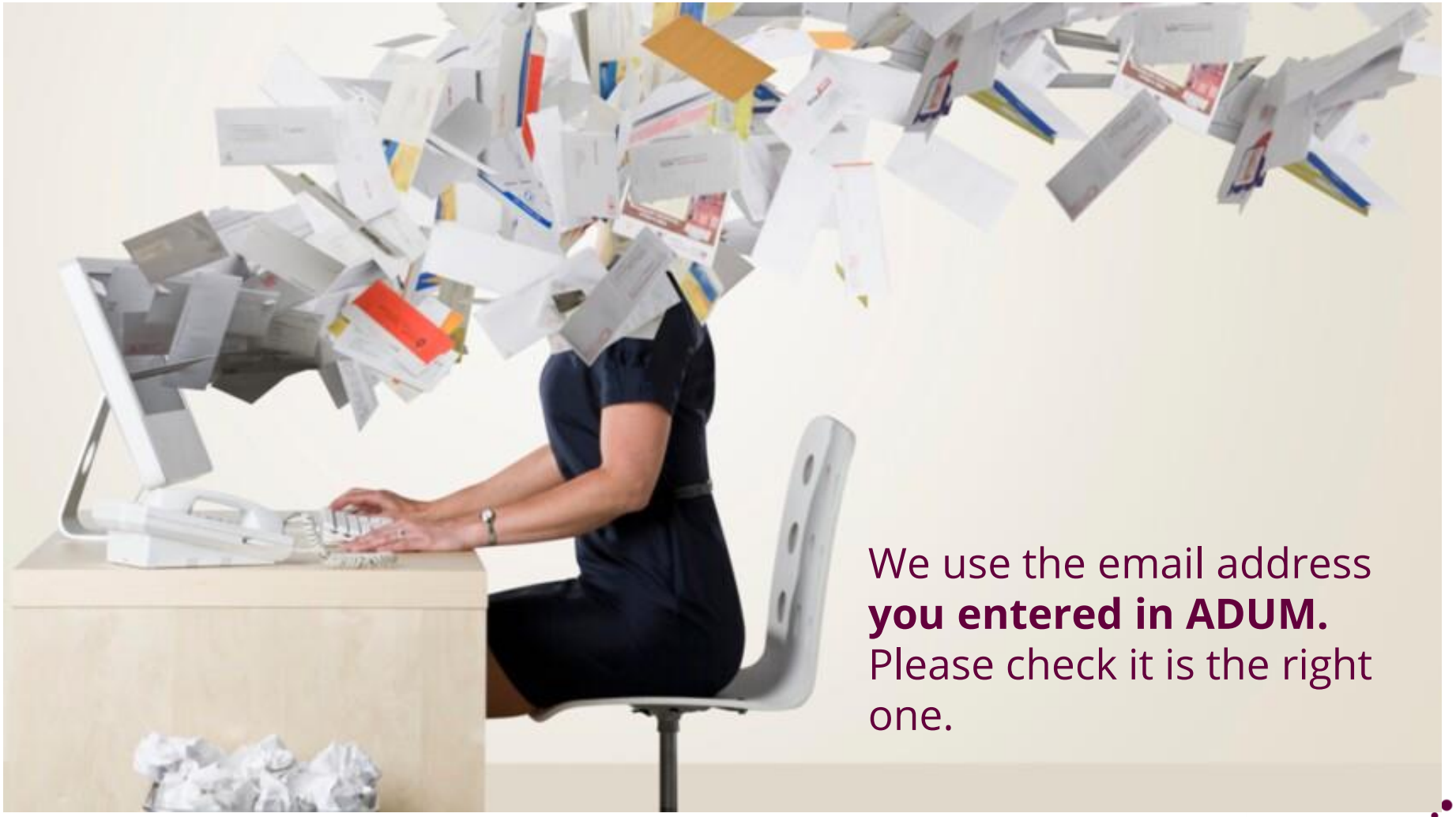
A training researcher with a professional status

Be professional!

READ YOUR EMAILS !



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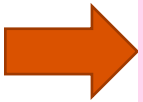
Be professional!

Follow the rules of your institutes (holidays, missions orders, etc…)

If you have an **work contract** signed with an **employer** (Université Paris-Saclay, INRAE, CNRS, private company, etc…).



You are an employee with full rights (medical assistance, unemployment benefits, pension, etc…)

Don’t forget to **declare Sick Leave within 48 hours** to the Human resources services of your employer.

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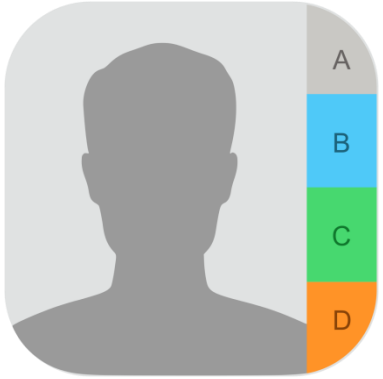
Your contacts



- For scientific matters:
  - Your supervisor, your thesis committee, your colleagues ...
- About your thesis committee
  - The representative of the doctoral school in your institute or us
- About your contract and status

  Your employer's human resources department

- **For problems... it depends...**
  - Your mentor or US

THINK ABOUT THE FUTURE !