

Journée de l'École Doctorale d'Informatique de l'Université Paris Sud

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Doctoral School in Computer Science

Paris Sud University

Welcome !

PhD Project Environment

PhD Student
Supervisor
Co-Supervisor

Registration Institution
Lab / Team /Project

Scientific project
Training & Professional
Project

STIC Doctoral School

Funding
Employment Contract

Financing Institution
Employer

What is the doctoral school ?

- ▶ PhD students (151 among which 32 are starting their PhD).
- ▶ Advisors (100) : Professors, Researchers
- ▶ Laboratories :
 - LRI (58), LIMSI (44)
 - INRIA Saclay - Île-de-France (36)
 - CEA (11), ...
 - LAL (2)
- ▶ University Paris Sud (UPSud) :
 - Doctoral College, SCRED, SIF, administration
 - http://www.u-psud.fr/fr/la_recherche/ecoles_doctorales/support.html

What does the ED do ?

Scientific policies : **Computer Science**

Charte des thèses

- ▶ Before starting a PhD
 - ▶ Recruiting process : PhD project, candidates
 - ▶ PhD student fundings (UPSud doctoral contract)
 - ▶ Support applications to fundings (Region, CSC, Digiteo, . . .)
- ▶ During the PhD
 - ▶ Registration & registration renewal
 - ▶ Follow up PhD progress : **Interviews**
 - ▶ Training organization / coordination
 - ▶ PhD defense : Reviewers, Committee, Defense validation
- ▶ After the PhD
 - ▶ Employment of PhDs : surveys **5** years after the defense – MESR request

Who is running the ED ?

- ▶ Doctoral School Board
 - ▶ **Administrative agent : Stéphanie Druetta**
 - ▶ PhD Cancelor : Dominique Gouyou-Beauchamps
 - ▶ Director : Nicole Bidoit-Tollu
- ▶ Teaching Assignment : Frédéric Voisin / Dominique Quadri
- ▶ Doctoral School Council : **Election**
 - ▶ Lab directors,
 - ▶ Heads of Master Programs,
 - ▶ Industrials representatives,
 - ▶ **PhD students representatives**

Communication tools

- ▶ Web site : <https://edips.lri.fr>
It' MORE than a Website ...
It is the **Information System** of the doctoral school
- ▶ Mail : ed-info@lri.fr

The PhD student environment

Main 'supervisory authorities'

- ▶ **Scientific advisor** – Research Unit / Lab
- ▶ **Doctoral School** – University (diploma)
- ▶ **Employer** – Funding organization \neq Employer

You have to follow the **rules** given by these entities :

- ▶ publications, confidentiality
- ▶ registration deadlines, training, defense deadlines ...
- ▶ traveling, sick leave, vacations, office hours ...
- ▶ ...

PhD student core activity

Research (advance of general knowledge) on a **focused subject**

- ▶ Study existing bibliography, state of the art
- ▶ Team & external seminars, courses, summer schools
- ▶ Formulate good questions !
- ▶ Seek answers, experimentations
- ▶ Develop your ideas, prove they are correct . . .
- ▶ Writing, Communication (defend your ideas)

Knowledge – Understanding – Skill

Progress of the thesis

A very tight timing

- ▶ Duration of PhD : **3 years** ... 3 years & 3 months

Warning : defense before mid Dec. of year Y for applying on assistant professor positions of year Y+1

- ▶ **4th year** :
 - ▶ specific authorization from ED, interview
 - ▶ financial support required,
 - ▶ residence permit renewal
- ▶ **5th year ? NO**
- ▶ Post-doc = enrich research experience, career starter ...

- ▶ Average duration : ≈ 42 months
- ▶ Duration less than 40 months : ≈ 42 %

Progress of the thesis

- ▶ Many things to do (experimental work, software development, publications, teaching, ...)
- ▶ Become autonomous
- ▶ Some periods are more productive than others
- ▶ **Do not lost time !**
- ▶ Too many PhD stop before the defense (2,5% during the last 3 years)
- ▶ In case of (any kind of) difficulties **alert us as early as possible !**

Training Modules

► Scientific track

- **Goal** : Acquire a wider view of computer science (outside / at the border of your research topic)
- Master courses, summer schools, seminars . . .
International exchanges
UPSud Masters : <https://www.dep-informatique.u-psud.fr/>

► Professional track

- **Goal** : Preparation to professional life
- Teaching training, entrepreneurship, english / french / chinese courses, doctoriales, communication . . . CIFRE,

Training Modules

(Rules)

This is a requirement in order to defend your PhD.

Everything is explained on the Website !

<https://edips.lri.fr/tiki-index.php?page=Choix%20des%20modules>

- ▶ Each module \approx 50 hours long or **7 days**.
- ▶ To be completed during the **two first years**.
- ▶ Forms on the WEB site
 - ▶ You make a proposal – Get **advisor advices** and agreement ! –
 - ▶ You get the DS Agreement or otherwise, **exchange of mails**
- ▶ Validation (certificate, report). **Checked** before registration renewal
- ▶ DS's financial support (<500 euros) to **summer schools** is possible

Professional/Industrial Training

- ▶ Organized by the university (Service d'Insertion Professionnel - SIP) ... not only
- ▶ Mandatory pre-registration : **December**
- ▶ 5 thematic areas :
 - ▶ Career
 - ▶ Project Management
 - ▶ Scientific and technical information
 - ▶ Innovation, Valorisation, Entrepreneurship
- ▶ Communication & Teaching (english, french, writing a scientific paper, learning how to teach ...)
- ▶ It is important that we receive your **feedback** on courses/training

Training Modules

Mission hors Recherche – Rules

Teaching assignment, valorisation assignment, other assignments

- ▶ professional training
- ▶ 2 days / year
- ▶ included in the annual hourly volume of the assignment

For **teaching assignments**

- ▶ Training related to teaching skills (theory and practice)
- ▶ Agreement and validation : Frédéric Voisin & Dominique Quadri

After your PhD

- ▶ Post-doctoral studies (mobility)
- ▶ Academic career : research position in an EPST e.g. CNRS, INRIA ; associate professor, research engineer ...
- ▶ Industrial career : R&D, StartUp ...

Defense	2008	2009	2010	2011	2012	2013
Stable position	86%	79%	64%	53%	40%	34%
<i>MCF</i>	12%	13%	8%	4%	4%	0%
<i>CR France</i>	5%	0%	2%	0%	0%	0%
<i>Abroad</i>	14%	11%	19%	2%	11%	5%
<i>CDI Private</i>	55%	55%	35%	47%	24%	29%
Temporary position	7%	16%	6%	45%	47%	49%
<i>ATER</i>	0%	0%	0%	4%	4%	10%
<i>Post-doc France</i>	0%	0%	2%	21%	11%	17%
<i>Post-doc Abroad</i>	7%	16%	4%	19%	31%	22%
Unemployed	0%	0%	13%	0%	2%	15%
Unknown position	7%	5%	17%	2%	11%	2%

Innovation and Entrepreneurship

- ▶ Univ. Paris-Sud is part of **KIC ICT Labs** , a european consortium for fostering Innovation & Entrepreneurship in the domain of Computer Science in Europe.
<http://eit.ictlabs.eu/>
- ▶ Univ. Paris-Sud participates to the PEEPS action (Pole Entrepreneuriat Etudiant Paris-Saclay) with several other academic partners.
<http://www.pee-paris-saclay/>
- ▶ In the framework of Initiatives d'Excellence, many actions to combine more tightly **Innovation, Education and Research**.

Other informations

- ▶ Association *Agir pour les Doctorants et les jeunes Docteurs* (Addoc)
<http://www.addoc.u-psud.fr/>
- ▶ Association Bernard Gregory : <http://www.abg.asso.fr/>
- ▶ Site SPECIF : <http://www.specif.org/>

Next Year : STIC Doctoral School

► Paris-Saclay University

- 24 partnairs : 3 Universities, 10 Engineer Schools, ... , CNRS, INRA, INRIA, ...
- 8 Schools, 10 Departements, 20 Doctoral Schools
- ≈ 48000 students et ≈ 10500 researchers and et professors
- $\approx 5\,000$ PhD students

► STIC (Information and Communication Science & Technologies)

► 10 partnairs :

UEVE, UPSud, UVSQ

CentraleSupélec, Ecole Polytechnique, Institut Mines Télécom,

CEA, CNRS, ENS Cachan, INRIA

ENSTA ParisTech, INRA, ONERA

IRT SystemX

- 7 Doctoral Schools
- 13 labs & 10 Research Teams Equipes
- HdR (400)
- 900 PhDs

Next Year : STIC Doctoral School

► 4 Thematic Areas (4 pôles thématiques)

- Automatic, Signal Processing, Image Porcessing, Robotic
Automatique, Traitement du Signal, Traitement des Images, Robotique
- Networks, Information & Communication
Réseaux, Information et Communications
- Data, Knowledge, Machine Learning & Interaction
Données, connaissances, apprentissage et interactions
- Programming : Models, Algorithms, Languages, Architecture
Programmation : modèles, algorithmes, langages, architecture

What is going to change ?

- ▶ Doctorat de l'Université Paris Saclay
préparé à l'Université Paris Sud
- ▶ Some rules may change, but rather smoothly
- ▶ A larger training program
- ▶ A new Information System : ADUM

Questions ?

Thanks a lot for your attention