Sciences et technologies de l'information et de la communication (STIC)



STIC Doctoral School Welcome Meeting

November, 14th 2022

Beginning at 13:30



Schedule



13:00 : Welcoming coffee

13:30: Doing a PhD at the ED STIC Paris-Saclay

- general presentation
- doctoral representatives
- courses and training
- Science Accueil organization
- SATT Paris-Saclay

Around 16:00: End



The Doctoral School



STIC Doctoral School

Sciences and
Technologies of
Information and
Communication

One of the **21 Doctoral Schools** of

UNIVERSITÉ PARIS-SACLAY

Agriculture, alimentation, Astronomie et Cancérologie : biologie biologie, environnement, et astrophysique d'Ile-demédecine - sante (CBMS) santé (ABIES) France (AAIF) > Lire la suite > Lire la suite > Lire la suite Droit, Economie, Electrical, Optical, Bio-Innovation Thérapeutique : Management (DEM) **Physics and Engineering** du Fondamental à l'Appliqué (ITFA) > Lire la suite > Lire la suite > Lire la suite Interfaces (INTERFACES) Mathématiques Hadamard Ondes et Matière (EDOM) (EDMH) > Lire la suite > Lire la suite > Lire la suite particules hadrons énergie Physique en Ile de France Santé Publique (EDSP) et novau: instrumentation. image, cosmos et simulation (PHENIICS) > Lire la suite > Lire la suite > Lire la suite **Sciences Chimiques:** Sciences de Sciences du sport, de la Molécules, Matériaux, l'environnement d'Ile-demotricité et du mouvement humain (SSMMH) Instrumentation et France (SEIF) Biosystèmes (2MIB) > Lire la suite > Lire la suite > Lire la suite Sciences du végétal : du Sciences et technologies de Sciences mécaniques et gène à l'écosystème (SEVE) l'information et de la énergétiques, matériaux et communication (STIC) géosciences (SMEMAG) > Lire la suite > Lire la suite Sciences Sociales et Signalisations et réseaux Structure et dynamique des Humanités (SSH) intégratifs en biologie systèmes vivants (SDSV) (BIOSIGNE) > Lire la suite > Lire la suite > Lire la suite



STIC Doctoral School



Sciences and

Technologies of

nformation and

Communication

One of the **21 Doctoral Schools** of



- 557 PhD students in 2021-2022 (about 5000 in Paris-Saclay globally)
- Nationalities and languages :
 - 48% come from abroad
 - 35% come from a country where French is not an official or used language.
- 564 PhD supervisors

ED STICS's institutions and research labs





5 national research organisms































INRAE











































ED STIC is involved in two **Graduate Schools** of the university



Materials Data Science Robotics Formal models Industrial engineering Artificial Intelligence Systems and Control Knowledge representation **Mechanics** Cybersecurity Applied math. Electronics **Bioinformatics** High Perf. Computing Electrical engineering Quantum computing Communications ! Biochemistry Algorithmics, Optimization Signal processing Chemical engineering Internet of Things Image processing Medical engineering Human Machine Interaction **Optics** Language processing

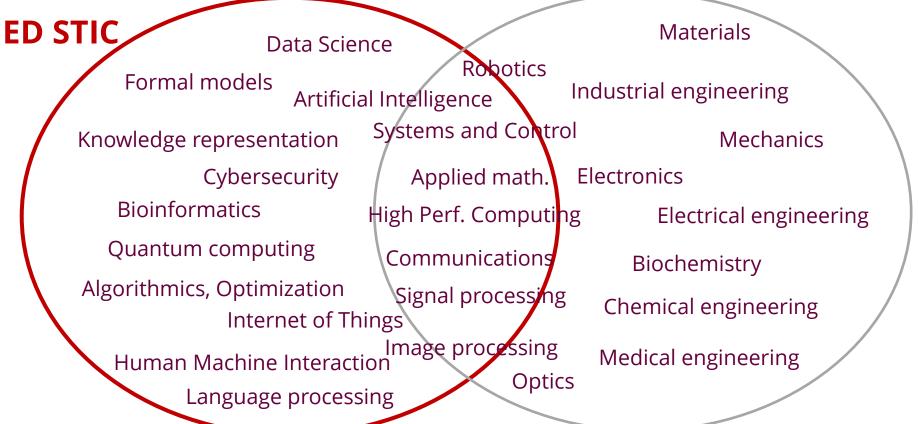
Computer Science

Informatique et Sciences du Numérique (ISN)

Engineering and Systems Sciences Sciences de l'Ingénierie et des Systèmes (SIS)

ED STIC is involved in two **Graduate Schools** of the university





Computer Science

Informatique et Sciences du Numérique (ISN)

Engineering and Systems Sciences Sciences de l'Ingénierie et des Systèmes (SIS)

The roles of the STIC Doctoral School in a nutshell



The doctoral school is mainly to **ensure that the PhD goes** well from the beginning to the end.

It **coordinates** actors and processes for:

- Recruiting
- Registration, registration renewal
- Follow up (and help if problems occur)
- Training
- Support for thematic schools and international mobility
- PhD Defense
- Preparing the professional career



From the PhD student point of view



Each PhD student of the STIC DS

- works (generally) in a laboratory (research unit) which is associated to the STIC DS
- under the supervision of a researcher from that laboratory (generally),
- is registered in **Paris-Saclay University**
- belongs to a **Graduate School** of the university (either Computer Science or Engineering and Systems Sciences)
- belongs to one Scientific Pole of the STIC DS (generally – but not always - the one of his/her supervisor).

STIC Doctoral School



Pole A: Systems and Control, Signal, Images, Robotics, Communications

 The director and the secretary of your pole are your natural interlocutors within the STIC DS.

Pole B: Big Data, Knowledge, Machine Learning, **Interactions**

Pole C: Programming, Models, Algorithms, Architecture, Networks

STIC Doctoral School



Director: Antoine BERTHET Assistant: Anne BATALIE Email: poleAstic@lri.fr

Pole A: Systems and Control, Signal, Images, Robotics, Communications

Director: Anne VILNAT

Assistant: **Stéphanie DRUETTA**

Email: poleBstic@lri.fr

Pole B: Big Data, Knowledge, Machine Learning, Interactions

Director: Nadjib AIT SAADI Assistant: **Annabelle TISSIER**

Email: poleCstic@lri.fr

Pole C: Programming, Models, Algorithms, Architecture, Networks

STIC Doctoral School Scientific Domain Based Organization





POLE A

Systems & Control, Signal, Image, Robotics, Communications

Director: Antoine Berthet

Assistant: Anne Batalie

Email: poleAstic@lri.fr



STIC Doctoral School Scientific Domain Based Organization





POLE B

Big Data, Knowledge, Machine Learning and Interactions

Director: Anne Vilnat (until Dec. 31)

Assistant: Stéphanie Druetta

Email: poleBstic@lri.fr



STIC Doctoral School Scientific Domain Based Organization





POLE C

Programming, Models, Algorithms, Architecture, Networks

Director: Nadjib Ait Saadi Assistant: Annabelle Tissier

Email: poleCstic@lri.fr



STIC Doctoral School General direction, training, industry, international





Direction

Alain DENISE Stéphanie DRUETTA - Assistant

Email: edstic@lri.fr



Training

Hanna KLAUDEL Jessica SAMÉ - Assistant

Email: formation-edstic@lri.fr

International & Industry

Véronique VEQUE

Email: international-edstic@lri.fr

Email: industriel-edstic@lri.fr

Budget

Frédéric BLANQUI



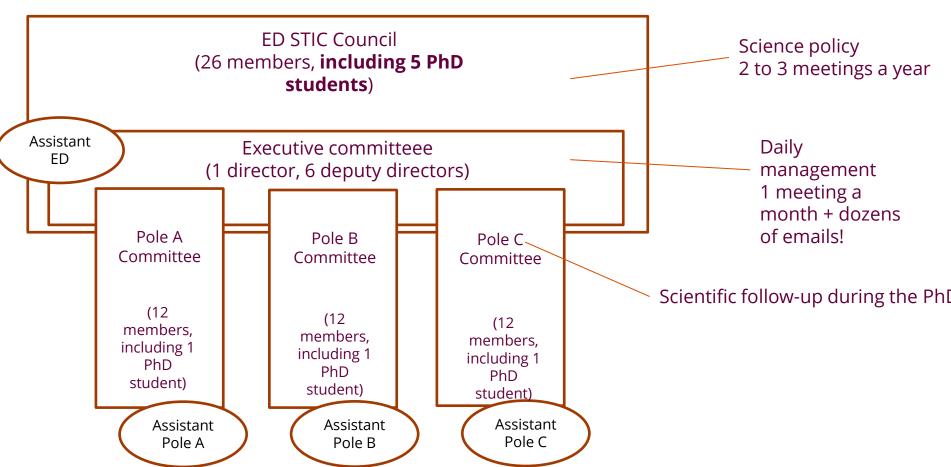




PARIS-SACLAY | la communication (STIC)

Council and Executive Committee





Current PhD representatives



- Jhedmar Jhonatan CALLUPE LUNA (pole B)
- Prashanth Goud DOMAKONDA (pole A)
- Louise DUBOIS DE PRISQUE (pole C)
- Florian MARONNAT (pole A)
- Nilo SCHWENCKE (pole B)
- Email: rep-doc-edstic@lri.fr

Election on the PhD representatives



- 5 representatives, elected for 1 year
- All are members of the ED STIC Council
- Three of them are members of a pole committee

- Election in december/january
- You will receive an email about the organization of the election.

The PhD project



PhD duration



- Standard duration: 3 years
- The 4th year registration is allowed only on exemption.
- Funding must be insured during the whole duration.
- Your PhD supervisor and yourself must anticipate these requirements.

International cotutelle, industrial theses



- Some PhDs are carried out in international cotutelle:
 - One supervisor in each country
 - Alternating periods between the two countries
 - Double diploma (from both universities)
- Some others are carried out in an industrial context:
 - One academic supervisor, one industrial supervisor
 - Alternating periods between the two locations

The PhD Thesis is a project with several actors



- PhD student: conducts supervised research activities
- Thesis supervisor: supervises the doctoral student
- Director of the laboratory: ensures the material reception of the doctoral student
- **Doctoral school (via the pole):** carries out his/her follow-up, defines the doctoral training program, organizes the registration / reregistration and defense procedures, intervenes for any question during the thesis (in particular: health problems, conflicts).

The PhD Student (You!)



You:

- You are both a student and a researcher.
- You work under the supervision of your supervisor(s), you communicate with him/her/them regularly.
- You possibly teach.
- You work in a local context (research group, laboratory), and also in national and international contexts (researchers in your domain).
- You communicate your research results to other researchers, in seminars or workshops (local, national, international).
- You publish your results in international journals and/or conferences.
- At the end you write your thesis, and finally you defend it.

The PhD supervisor



Your PhD supervisor:

- ensures your remuneration during the whole duration of the PhD
- supervises your work, communicates with you regularly, discusses about the thesis advancement advises you.
- provides the needed resources for the accomplishment of the PhD project.
- advises you about useful courses for your PhD project.
- encourages you and helps you to present and publish your work.
- advises you for the writing of your manuscript and in the preparation of the defense.

Follow up by the STIC Doctoral school



- You must re-register each year, between July and November.
- Before each re-registration you must:
 - write a (short) progress report on your work and fill an auto-evaluation form,
 - present your work to a (small) follow-up committee and have a discussion with its members,
 - take stock of the training courses you have taken or will take (details in Hanna Klaudel's talk after).

Financial support for mobility and thematic schools (ED STIC and GS Computer Science)



- Mobility: a stay outside the research unit of the thesis director and that of his/her co-supervisor to work in collaboration with another lab. The support can be up to 2000€.
- Thematic schools: participation in thematic schools or young researcher schools. The support can be up to 1000 euros.
- In both cases, the support is paid to and managed by the doctoral student's research unit.
- See details on the web site: https://www.universite-paris-saclay.fr/ecoles-doctorales/sciences-et-technologies-de-linformation-et-de-la-communication-stic

Financial support for talks in international conferences (GS Computer Science)



- The GS Computer Science gives support to PhD students for a mission to a prestigious conference in the field, up to 1500€.
- All PhD students of the ED STIC who do not have financial support for travel costs in their thesis funding are eligible for this action.
- See details on the GS web site: <u>https://www.universite-paris-saclay.fr/la-gs-isn-finance-vos-projets</u>

Some other international actions in Paris-Saclay



- European Doctorate label (Doctor Europaeus)
 Conditions:
 - At least 3 months in another European country
 - Specific rules for defense authorization and jury
 - Oral presentation in another EC official language
- Paris-Saclay annual call for mobility scholarship: for stays in a research laboratory abroad, from 1 to 5 months
- EUGLOH mobility programs (European alliance for global health)
- Fulbright program: funds 4 to 12-month research periods in the USA for doctoral candidates

• ...

Pr Véronique Vèque : International-edstic@lri.fr

ICST "Doctoral students" award from the Saclay plateau



- Awarded each year to the research work of doctoral students from the ED STIC of Université Paris-Saclay and from IP Paris doctoral school for their excellence.
- Promotes all types of scientific production by doctoral students: articles, evaluation campaigns or production of hardware and/or software systems.
- 2023 award: any research work produced during the PhD between June 1, 2022 and May 31, 2023 may be submitted.
- Call will be launched during spring 2023

ICST "Doctoral students" prize from the Saclay plateau



- This year 2022, two first prizes were awarded to:
 - Anatole LEFORT, SAMOVAR, Institut Polytechnique de Paris, for the paper « J-NVM : Off-heap Objects in Java »
 - Herikalaina RAKOTOARISON, LISN, Université Paris-Saclay, for the paper « Learning meta-features for AutoML »
- Four accessits were awarded to :
 - Constantin PHILIPPENKO, CMAP, Institut Polytechnique de Paris, for the paper « Preserved central model for faster bidirectional compression in distributed settings»
 - **Jeanne REDAUD**, L2S, Université Paris-Saclay, for the paper « Stabilizing output-feedback control law for hyperbolic systems using a Fredholm transformation »
 - Pierre VANDENHOVE, LMF, Université Paris-Saclay, for the paper « Characterizing Omega-Regularity Through Finite-Memory Determinacy of Games on Infinite Graphs»
 - Jingwei ZUO, DAVID, Université Paris-Saclay, for the paper «SMATE: Semi-Supervised Spatio-Temporal Representation Learning on Multivariate Time Series »

Next meetings



- 16 February 2023: welcome Meeting by the GS Engineering and System Sciences.
- **Spring 2023**: scientific day, with invited talks, talks by the laureates of the 2022 ICST Doctoral students prize, posters, and awards ceremony.
- Spring 2023: what to do after the PhD? (priority for doctoral students in their third year)
- Other meetings will be co-organised by the doctoral school and/or the graduate schools (e.g. with industrial partners).

In case of any problem



The Doctoral School is here to help you in any case, especially in case of problems (conflicts, health problems etc.):

- The pole director
- The doctoral school director
- The PhD student representatives

Communication with the doctoral school



Useful links:

- ADUM (where your account for registration, training etc. is): www.adum.fr
- The STIC pages on the Paris-Saclay web site: https://www.universite-paris-saclay.fr/ecoles-doctorales

Emails:

- To send an email to your pole (director and assistant): poleXstic@lri.fr, where X=A, B or C.
- read carefully the emails from ADUM and from your pole. They are sent to the email address you wrote in ADUM.

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STIC DOCTORAL SCHOOL

Goodbye!

Enjoy your PhD! Enjoy your life!



Today's presentations will be available on the doctoral school's web site

