ECOLE DOCTORALE ASTRONOMIE & ASTROPHYSIQUE D'ILE DE FRANCE

The Ecole Doctorale (ED)

Federation for the entire field of Astronomy & Astrophysics

research community wishes a regional organisation with4 institutions

Paris Sciences Lettres, Univ. Paris-Saclay, Sorbonne Univ., Univ. Paris-Cité

18 laboratories

GEPI, IMCCE, LERMA, LESIA, LUTH, SYRTE, LPENS, IAS, ISMO, CEA-AIM, CEA-DAM, CEA-MdS, LATMOS, LPP, LMD, IAP









Steering

- Directory board
 - Thierry Fouchet (SU)
 - Laurent Verstraete (Paris-Saclay)
 - Alain Doressoundiram (PSL)
 - Frédéric Daigne (SU)
 - Jérôme Rodriguez (UPC)
- Council
 - 20 members + 5 PhD Students + 5 guests

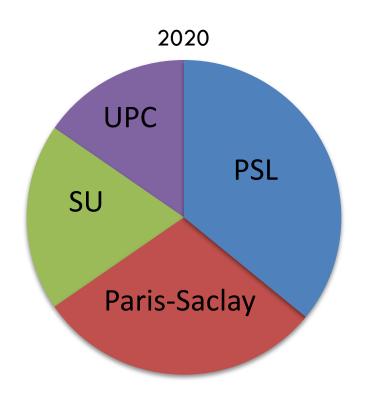








PhD Students



- 155 Students registered in 202330% women, 40% foreigners
- for a total of 252 advisors

 44 @ Paris-Saclay









Topics & skills

Big scientific questions...

Solar system, Exoplanets, Star and planet formation, Stellar physics,

Compact objects, Galaxies, Large scale structures & Cosmology, Instrumentation

Every day...

Instrumentation, data & signal, data & modeling, simulations, theory









Start a PhD

Need to be

- Holder of a Master's degree or equivalent
- Endorsed by the PhD advisor and the lab director
- Proposed by the Ecole Doctorale with funding for 3 years

PhD students are paid employees with a work contract with University, CNES, CEA, CNRS. This is a first professional experience









PhD projects & application

- PhD projects are validated by the Ecole Doctorale original research topic and recognized mentoring ability
- Application
 - Full CV detailing training and research experience
 - Letter of motivation
 - Academic results
 - Up to 3 letters of recommendation









The contest for funded PhD

- average of 20 regular contracts from the 4 Institutions
- The Ecole Doctorale organises a contest common to all institutions
 - Single jury (12 members + 5 student observers)
 - Selection on the basis of a) record and b) interview









The 2023 contest

- 63 PhD projects submitted
- \sim 84 (/183) candidates with advisor's support
 - 24 Women (W)/ 33 Foreigners (F)
- Selection
 - Record: Marks are important... but also the match to the project (specific skills)
 - 60 Interviews (20W, 24F) in May,
 - in remote 12' + 8'
 - Training
 - Research experiences (context, issues, skills, results)
 - Presentation of the PhD project: why you?
 - Final jury: June 1st,
 regular PhD contracts for 23 students! (57 PhDs start in 2023)
 (10W, 5F)









The 2023 Contest: timeline

- The PhD projects online: from now up to February 1st 2024
- Applications: from early February to end of April 2024 on ADUM.
- Selection for interview: early May 2024
- Interviews: mid-May 2024
- Results: early June 2024









Apply for PhD is a project

- competitive contest
- only 30% of PhDs start on regular contracts
 - → need to apply on (at least) 2 PhD projects with different fundings and schedules
- preparation of interview with advisor(s) is crucial









Different PhD fundings

Specific PhD projects, with specific schedules and somewhat less pressure

- CDSN, AMX, IDEX (IDI, IA), ANR, ERC, DIM-ACAV +, CFR/CEA, ONERA, CNES, ESO, ESA, CIFRE, Fondation CFM, ...
- CSC (Chine), CONICYT, CONCYTEC, CAPES (South Am.), IFCPAR (India),
 Vernadski (Russia), USTH (Vietnam), CoFUND, Universities, Ministeries.

sometimes half funding, 2 applications (CNES, CNRS, CEA,...)









PhD follow-up

- review every year
- mid-term review by Ecole Doctorale
- financial support for topical schools
- Elbereth conference by PhD students for PhD students
- 5 PhD students, representatives elected to the council
- The ED board always ready to answer your questions.









Training during PhD

Compulsory for all PhD since 2016

- average of 90h training: disciplinary, opening and future
 - □ A topical school (broad spectrum): 1 week (~ 30h).
 - □ 1 "Long module": 30h & 2 "Short modules": 2 x 15h.
 - Training in ethics and deontology.
- teaching gives 10h per 64h teaching
- Certificate delivered at the end of the PhD









After the PhD

Over 10 years

- 30% research permanent position in France (research + teaching, engineer.)
- 25% permanent position abroad in research (Eng. & management, ESO, ESA)
- 40% private positions (data science, scientific computing, instrumentation,...)
- 5% teaching, scientific diffusion, other









Contact us

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