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 of Ecole Doctorale

Directory board

- Benoît Semelin (SU, director)
- Laurent Verstraete (Paris-Saclay)
- Zakaria Meliani (PSL)
- Frédéric Daigne (SU)
- Jérôme Rodriguez (UPC)

Council

20 members + 5 PhD Students + 5 guests

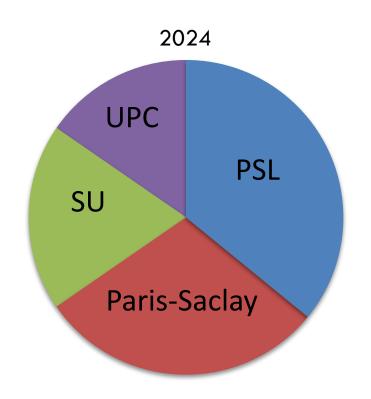








PhD Students



- ~160 Students in 2024 (52 @ UPS)
 30% women, 40% foreigners
- for a total of 252 advisors44 @ Paris-Saclay









PhD Topics & skills

Big scientific questions...

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

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

Every day of a PhD ...

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









To 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 + half CNES, region, space academy,
- The Ecole Doctorale organises a contest common to all institutions
 - Single jury (12 members + 5 student observers)
 - Selection on the basis of record and interview









The 2024 contest

- 63 PhD projects submitted
- 88 candidates with advisor's support (initial ~150)
 24 Women (W)/ 33 Foreigners (F)
- Selection
 - 60 Interviews (20W, 24F) end of May,
 - in remote 12' + 8'
 - Training
 - Research experience (context, issues, skills, results)
 - Presentation of the PhD project: why you?
 - Final jury: June 5th, regular PhD contracts for 23 students! (10W, 5F)









The 2025 Contest: timeline

- The PhD projects online: from now on to February 1st 2025
- Applications: from early February to end of April 2025 on ADUM.
- Selection for interview: early May 2025
- Interviews: end of May 2025
- Results: early June 2025









Apply for PhD is a project

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









Different PhD fundings

Specific PhD projects, with specific schedules and somewhat less pressure

- ANR, ERC, DIM-Origins, CFR/CEA, ONERA, CNES, ESO, ESA, CIFRE, UPS
 COFUND (AI), CFM, half funding 2 applications
- Adds 34 (!) fundings to the regular 23: total of 57 PhDs starting in 2024









PhD follow-up

- review every year by law
- 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 on ethical science, GBV (VSS).
- teaching or spreading science (10h per 64 actual hours)
- Certificate delivered at the end of the PhD









After the PhD

Over 10 years

- 30% research permanent position in France (research + teaching, engineer.)
- 20% permanent position abroad in research (Eng. & management, ESO, ESA)
- 45% private position (data science, scientific computing, instrumentation,...)
- 5% teaching, scientific diffusion, other









Contact us

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