

Call for n. 4 Marie Curie ITN fellows funded in the framework of the European LeADS project at Scuola Superiore Sant'Anna, Italy.

Call for applications for admission to Ph.D. programmes 37th Cycle

ACADEMIC YEAR – 2021/22

Art. 1

(Available Positions)

The Sant'Anna School of Advanced Studies announces n. 4 ERS (Early-Stage Researcher) fellowships within the European Marie Curie Action ITN (Initial Training Network) Legality Attentive Data Scientists (LeADS GA 956592) project for n. 4 ESR positions to be admitted in the National Doctorate in Artificial Intelligence section IA for Society (<http://www.PhD-AI.it>), 37th Cycle.

The administrative headquarters of the Ph.D. Programme in Artificial Intelligence is the University of Pisa. In compliance with the Ministry Decree n.45/2013, the Ph.D. Programme can be activated after that the Ministry of University and Research has verified the accreditation requirements. The admission tests can therefore be carried out once the reception of positive outcome of such verification.

Article 2

(Application requirements)

Candidates with the academic qualifications set forth below may apply for the above Ph.D. positions:

- Master of Science (MSc) degree or equivalent,
- Similar academic qualification obtained abroad, comparable with the Italian qualification in terms of level, duration and contents and deemed eligible for application.
- Candidates should have good interpersonal skills with the ability to work effectively and cooperatively in a diverse and international team environment and to define and implement solutions in line with team objectives. In addition, candidates should have optimal organizational, reporting and communication skills, as well as a proactive attitude towards solving problems.
- Proficiency English level is essential.
- Team working and availability to travel are essential.
- In order to fulfill the eligibility criteria of the Marie Curie ITN at the date of recruitment, applicants must not have resided or carried out their main activity (work, studies, etc.) in Italy for more than 12 months in the 3 years immediately prior to their recruitment. Compulsory national service and/or short stays such as holidays are not considered. Italian candidates can apply if they have resided in another country for more than 2 years of the last 3 years.
- At the time of recruitment, the candidate cannot have already obtained a doctoral degree and must be in the first 4 years (full-time equivalent) of his research career.
- Applicants who will obtain their academic qualification by October 1st, 2021 may also be admitted to the selection process. The official starting date of the Ph.D. Course is set to November 1st 2021.

Please note that a degree in law is particularly welcome although it is not a prerequisite.

Candidates holding a qualification obtained abroad (EU and NON-EU Countries)

All candidates holding a qualification obtained abroad (EU and NON-EU Countries) are required to submit a copy of their original degree certificate along with a translation unless written in English/French/Spanish/German.

Admission to the Programme for candidates holding a foreign qualification obtained in a NON-EU Country is in any case subject to verification of the qualification held, which is carried out based on the *“Dichiarazione*



di valore in loco” [statement of validity] issued by the local Italian diplomatic office, or, alternatively, of the Diploma Supplement.

The Statement of validity should contain the following information:

- 1) legal status and nature of the issuing institution;
- 2) the academic and/or professional rights that the degree confers in the country of origin;
- 3) legal duration of the study programme and/or the overall commitment required of the student determined in ECTS (if available);
- 4) value of the qualification for academic and professional purposes in the system/Country which issued it.

Article 3

(Application submission)

The application must be submitted only by upload procedure available in the dedicated section of the School website (https://sssup.esse3.cineca.it/Home.do?jsessionid=E945D9708B1C6675B551A159B512EA2D.esse3-sssup-prod-02?cod_lingua=eng), before the deadline: September 6th2021.

The application procedure consists of the following steps:

1. registration of personal data on the website;
2. insertion of data and documents requested by the online procedure.

Candidates are required to fill in the application and state under their own responsibility:

- a) surname, name, place and date of birth, nationality;
- b) to hold the academic qualification set forth in article 2 above, specifying the degree programme, its duration and the University or Institution of Higher Education having issued it;
- c) the final mark obtained in the MSc degree(s), specifying the maximum possible mark and the degree award date;
- d) the expected MSc degree award date, for those not yet graduated;
- e) e-mail address, mandatory for competition-related correspondence.

Documents requested:

- a) a detailed Curriculum Vitae et studiorum (in English)
- b) a motivation letter (Max 1,000 words)
- c) a copy of your official academic degree(s)
- d) proof of English proficiency (self-assessment)
- e) the names and contacts of two referees
- f) scan of a valid identification document (e.g., passport)
- g) a non-binding research plan of a maximum of 3500 words which must include (in English): 1. the title of the research; 2. the scientific premises and relevant bibliography; 3. the aim and expected results of the research project; The non-binding research plan need to be aligned to one of the following research descriptions for the LEADS project:

ESR 1	Project Title: Reciprocal interplay between competition law and privacy in the digital revolution
Objectives: Data are more and more important resources in the so-called Digital Revolution: the impact on competition law is increasingly relevant and so are the implications of data protection law on competition law. The researcher will address these implications, analysing some relevant topics: the impact of data portability and the requirements in terms of interoperability in the new GDPR compared to the barriers to entry and to market dominance; how customer data can be “assessed” as an index of market dominance for the big information providers (Google, Apple, Facebook, Amazon); and how SMEs can benefit from data protection law and competition law in order to increase their volume in the market.	
ESR 3	Project Title: Unchaining data portability potentials in a lawful digital economy



Objectives: Empirically test the potentials of the right to data portability. The research in the framework of LeADS will relate data portability not only to data protection law, but also to competition law and unfair business practices (e.g., offer or price discrimination between groups of consumers through profiling operations), setting the scene for their regulatory interplay in line with current and forthcoming technologies. In doing so specific attention will be offered to the possible technical solutions to guarantee effective portability. Additionally, the technical, statistical, and privacy implications of the new right will be evaluated, such as the need for standard formats for personal data, and the exception in Article 20.2 of the GDPR, according to which the personal data, upon request by the data subject, should be transmitted from one controller to another “where technically feasible”.

ESR 5 **Project Title: Differential privacy and differential explainability in the data sphere: the use case of predictive jurisprudence**

Objectives: Human life and economy are exponentially data driven. The switch from residential to cloud based data storage is making increasingly difficult to reap the maximum from data while minimizing the chances of identifying individuals in datasets. Researcher will explore the interplay between differential privacy technologies and the data protection regulatory framework in search of effective mixes.

ESR 14 **Project Title: Neuromarketing and mental integrity between market and human rights**

Objectives: ESR's research question is whether and how neuromarketing can affect human rights of individuals, considering in particular recent interpretations of rights contained in the European Convention of Human Rights and in the EU Charter of Fundamental Rights, in particular “mental privacy”, “cognitive freedom”, and “psychological continuity”. Indeed, advanced data analytics provide a very high level of understanding of users' behaviour, sometimes even beyond the conscious self-understanding of the users themselves exploiting all user's idiosyncrasies, including user's vulnerabilities harming the exercise of free decision making

People with disabilities should attach a note to the application to taking part in the competition, applying for the assistance they require throughout the competition in relation to their disability, as well as for any extra time needed.

The documents required should be attached to the application form, under penalty of exclusion from the selection procedure.

The School may perform checks on the truthfulness of the declarations and documents submitted, at any time during the procedure including after the start of the Programme and may request that the original documents be produced. In the event of false declarations, the School may order the exclusion of candidates from the selection procedure or from the Programme at any time, by the substantiated decision of the Rector, without prejudice to the criminal liability deriving from the same.

Article 4

(Selection Board and test examinations)

The Examining Board for admission to the ESRs' position is appointed by decree of the Rector. The Supervisory Board of the Consortium LeADS will indicate the potential members of the Examining Board; the composition will be available on the School website.

Selection consists in the assessment of the qualifications submitted and an interview held in conference call on a platform indicated on School website.

The Board will award a score out of one hundred, from 1 to 100.

Assessment of qualifications – maximum score possible: 70 The Examining Board will assess the CV of studies and any scientific qualifications submitted.

Candidates are not required to be present during the assessment of qualifications.

The School will notify those candidates selected for interview of the day and time of the same, as well as of the score received in the assessment phase, by writing to the email address specified in the application.

The interview schedule will be published also on the web site of the LeADS project www.legalityattentivedatascientists.eu on Sept. 10th 2021. Interviews are expected on Sept. 13th 2021.



Interview – maximum score possible: 30

The interview will consist in a discussion about the qualifications submitted, in particular the CV, as well as verification of the level of knowledge of the English language.

Candidates obtaining a score below 21/30 in the interview will be excluded from the merit ranking list.

The interview will be conducted as a video conference (for example using the software Webex).

The identity document used in the online form should be shown before the start of the interview.

Article 5

(Admission to the Ph.D. Programme and entrance of students)

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The general merit ranking lists, approved by decree of the Rector, are published on the School website. Publication constitutes an official communication.

The School reserves the right to assign any positions which become available as a result of candidates renouncing or dropping out, to suitable candidates on the ranking list.

Successful candidates will be admitted only upon approval of the Ph.D. Council of the Course under the supernumerary category to the “National Doctorate in Artificial Intelligence” of the Pisa University.

The effectiveness of the selection is subject to confirmation by the competent Ministry of University and Research (MUR) of the validation of the new National Doctorate in Artificial Intelligence for Academic Year 2021/22 as provided for by art. 3 of Decreto Ministeriale, nr. 45, 2013.

The start date of the Ph.D. Programme is November 1st, 2021.

NON-EU citizen students should apply for a specific study visa to enter Italy, which is issued by the Italian embassies or consulates in the Country of origin. Students are required to apply for a residence permit for study purposes within eight (8) days of arriving in Italy.

Ph.D. students are not required to pay the tuition fees but only the yearly regional tax. of € 140.00 (for more information, please have a look at: <http://www.dsu.toscana.it>)

Article 6

(Obligations of the Ph.D. student)

Students are required to attend the teaching and research activities provided within the LeADS Research and Training Programme.

Students undertake to comply with the rules in the Statute, in the Regulations and Codes of Conduct of the University of Pisa.

Article 7

(Ph.D. Student Status)

1. The ESR Ph.D. student will receive a yearly gross salary:

(Living allowance) of € 40.966,56 (including income tax and retirement pension contributions),

Mobility allowance up to € 7.200

Family allowance (depending on family status at date of recruitment) € 3.000

2. The ESR Ph.D. student will undertake a secondment at a beneficiary's or an associated partner's premises other than those of the beneficiary which has appointed the researcher under the project.

3. The ESR Ph.D. student will be requested to sign a **full time employment contract**.

5. The Supervisor may allow the Ph.D. student to participate in study and research activities external if the activities are coherent with the ITN Project LeADS.

The Rector
Professor Sabina Nuti



Procedure Supervisor, Data Handling, Transparent Administration

Head of the U.O. Ph.D. – Via Cardinale Maffi, 27 – 56127 Pisa –, e-mail: phdoffice@santannapisa.it.

Under the art. 5 of the Act n. 241/90 and ff.mm., the person in charge of the competition procedure is Head of the U.O. PhD - Sant'Anna School of Advanced Studies - Via Cardinale Maffi, 27, 56127 Pisa - e-mail: phdoffice@santannapisa.it.

Sant'Anna School of Advanced Studies (hereinafter the "School"), as Data Controller, under the article 13 of the EU General Data Protection Regulation n. 679/2016 and under the Italian Legislative Decree 30 June 2003 ("Privacy Code regarding the protection of personal data") with regard to the processing of personal data, on his behalf, the authorized internal processor is Mrs. Giovanna Bottai, giovanna.bottai@santannapisa.it, Head of the UO PhD, other employees of the UO PhD office and evaluation committee's members will be instructed and authorized to the data processing.

Your personal data (e.g. name, surname, contact information, and all the data filled in the above forms) will be processed by the School in order to:

- Proceed this competition test
- Create the career record.

The legal basis of the data processing is the performance of a contract (article 6 sub b Reg. EU 679/2016), and public interest (art. 6 sub e) Reg. EU 679/2016).

In addition, we will automated process your personal data to pursue the above-mentioned public purposes as well as we will process your anonymized data for statistics.

It is assured that your data will be processed in compliance with the principles of correctness, lawfulness, transparency, and Public Administration efficiency under the European and national legislation on the topic (Reg. EU 679/2016 and Legislative Decree 196/2003) for an unlimited period as stated in the "Massimario di conservazione" Act of the School. As data subjects, you shall have the right to obtain at any time confirmation as to whether or not personal data concerning them exist, to be informed of the content and source of such data, to check their accuracy and request integration, updating or rectification, as well as to have the processing of your personal data restricted and any unlawfully processed data erased, made anonymous or blocked. You shall exercise your rights, submitting your request to the Sant'Anna School Office U.O. PhD, Via Cardinale Maffi, 27– 56127 Pisa, e-mail: phdoffice@santannapisa.it, as well as to the following e-mail address: privacy@santannapisa.it. You may also lodge a complaint to «Italian Data Protection Authority».

For further information, please, contact the School «Data Protection Officer», e-mail address: dpo@santannapisa.it.

The Sant'Anna School of Advanced Studies operates in compliance with the legislation on the prevention of corruption (L. 190 / 2012)

References to the legislation:

Equivalence and recognition of foreign qualifications: article 2, Italian Law 148/2002; article 6, Italian Ministerial Decree 270/2004

Self-certificates: Italian Presidential Decree no. 445/2000 and subsequent amendments and additions

People with disabilities: Italian Law no. 104/92

Occupational Safety Consolidation Act: Italian Legislative Decree no. 81/2008