

**Rector's Decree no. */2025**

* no. of the protocol registration
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Object:

Selection procedure for the awarding of 2 research contracts pursuant to art. 22 of Law L. 240/2010 and of MUR Decision no. 47/2025, in the framework of the National Recovery and Resilience Plan (PNRR), Mission 4 "Education and Research" - Component 2 "From Research to Enterprise" – Investment 1.2 "Funding of projects presented by young researchers" – IUSS Pavia – Codice CR 20251_DM47_25

Published on the School Notice Board

Area: Human Resources, General Affairs and Services

Human Resources Selection Department

THE RECTOR

GIVEN the EU Regulation No 679/2016 regarding the protection of natural persons with regard to the processing of personal data and on the free movement of such data;

GIVEN the EU Regulation No 2021/241 of 12/02/2021 establishing the Recovery and Resilience Facility;

GIVEN the National Recovery and Resilience Plan (PNRR) submitted to the European Commission on 30 April 2021 in accordance with Article 18 of Regulation (EU) no. 2021/241 and approved by Decision of the ECOFIN Council of 13 July 2021, notified to Italy by the General Secretariat of the Council by note LT161/21 of 14 July 2021, which plan is composed of 6 missions and 16 components, and in particular taking into account Mission 4 Component 2 (M4C2) "From Research to Enterprise" which aims at supporting investment in research and development, promoting innovation and the diffusion of technologies, strengthening skills by supporting the transition to a knowledge-based economy, covering the entire supply chain of the research and innovation process, from basic research to technology transfer;

GIVEN the "Notice for the recruitment of International Postdoctoral Researchers PNRR - Mission 4 "Education and Research" - Component 2 "From Research to Enterprise" - Investment 1.2 "Funding of projects submitted by young researchers", issued by Directorial Decree no. 47 of 20/02/2025;

GIVEN the FAQ concerning the Decree on the recruitment of International Postdoctoral Researchers, D.D. no. 47 of 20/02/2025, published on the MUR website on 07/03/2025;

GIVEN the list of vacant positions allocated to the North- Centre, note n. 3866 of 21/03/2025, signed by Dr. Michele Mazzola, 2 of which for the IUSS Pavia University School of Advanced Studies;

GIVEN the Statute of the IUSS Pavia University School of Advanced Studies;

GIVEN the Code of Ethics and Conduct of the IUSS Pavia University School of Advanced Studies;

GIVEN Law 30 December 2010, n. 240, subsequent amendments and additions and, in particular art. 22 of the Law as amended by Law n. 79/2022;

RECALLING the emergency decrees of the Deans of the Classes proposing the activation of a research contract following the approval of the financing referred to in DD 47/2025;

CONSIDERING that on 03/26/2025 the Academic Senate approved the requests for the activation of research contracts;

GIVEN the ministerial note n. 4336 of 31/03/2025;

CONSIDERED that MUR has not yet issued the decree granting the financing with reference to the assigned positions;

CONSIDERED the urgency of proceeding to meet the ministerial deadline for signing contracts and starting activities by 15 May 2025;

ORDERS

Art. 1 – OBJECT OF THE ANNOUNCEMENT

Subject to the issuance by the Ministry of the decree granting the funding, the IUSS University School of Advanced Studies of Pavia announces selection procedures for the awarding of n. 2 research contracts pursuant to art. 22 of Law 30.12.2010, n. 240 and of the MUR D.D. n. 47 "Decree for the hiring of international post-doctoral researchers" of 20 February 2025.

The contracts are funded by the European Union - NextGenerationEU through the Ministry of Universities and Research with funds from the budget of the National Recovery and Resilience Plan (PNRR) - Mission 4 Component 2 - Investment 1.2 - Funding of projects submitted by young researchers.

The specific elements of each position are defined in the relative attachment to this call for applications. In the following articles, reference will be made to the attachments where specific elements of each call are concerned.

Art. 2 – ACTIVITIES TO BE PERFORMED

The exclusive performance of research activities is foreseen, within the specific research project, the implementation of which is tied to the activation of the contract. This activity is carried out under the supervision of a scientific manager, as reported in the attachments relating to each individual position.

For the purposes of reporting the research project, the figurative quantification of annual activities is equal to 1,500 hours per year, in line with the PNRR initiatives. Contractors organize their work performance in agreement with their scientific supervisor in relation to the organizational aspects of the project. The performance of the research activity must be self-certified and validated by the scientific supervisor. Where required, in order to verify the distribution of the number of hours allocated to the research activities carried out by the contractor, it is possible to use the School's integrated reporting system.

The project that each winner will have to develop and the related scientific productivity objectives are explained in the corresponding attachment.

Art. 3 – ADMISSION REQUIREMENTS

The selection process is open to candidates – including those with citizenship of countries outside the European Union – who, possess a PhD or equivalent qualification obtained in Italy or abroad by the deadline for submitting applications for admission.

Candidates enrolled in the final year of a doctoral course may also be admitted to the selection, provided that the degree is expected to be obtained **by the mandatory deadline of 14 May 2025**, in order to allow the contract to be signed and the activities to be started by the deadline set out in Directorial Decree no. 47 of 20/02/2025 (15 May 2025).

In the case of a PhD obtained outside Italy, it is necessary to:

1. Attach the decree of academic recognition of the degree (issued pursuant to art. 74 of Presidential Decree no. 382/1980, ex equivalency, or art. 38 of Legislative Decree 165/2001), for those who already possess it by the deadline of the call;
2. attach the receipt of delivery of the application for the release of the equivalence determination to the competent bodies. The information is available at the web address: <http://www.funzionepubblica.gov.it/strumenti-e-controlli/modulistica>.

The requirements for admission must be met on the expiry date of the deadline for submitting applications.

Pending the release of the provision referred to in point 2, it is possible to participate in the competition by being admitted with reservations.

Further requirements include:

- the completion of at least 3 months of training and research abroad as part of the doctoral course. This requirement is considered to have been met if the qualification was obtained abroad. In the case of the lack of mobility within the doctoral cycle, the candidate must explain the reasons for this at the time of application;
- falling within the D.D. MUR n. 47 of 20/02/2025 definition of “young researcher”. This definition includes all those who have not reached the age of 41 on 20/02/2025 or, alternatively, have not reached the age of 46 on 20/02/2025 and have obtained the PhD within the last 7 years and meet one or more of the following conditions:
 - the need to acquire initial experience as a fund manager and/or manager of research activities;
 - the need to acquire experience in leading and managing a national and/or international research team;
 - not have or have not had a permanent Full Time Equivalent (FTE) contract as an assistant professor and/or full professor.

This selection procedure is **not** open to:

- tenured staff of universities, public research organisations and institutions whose postgraduate scientific diploma has been recognised as equivalent to a doctorate, in accordance with Article 74(4) of Presidential Decree No 382 of 11 July 1980;
- those who have held fixed-term assistant professorship contracts pursuant to Article 24 of Law 240 of 2010;
- full and associate university professors or permanent assistant professors, even if they have left the service;

- those who are related, by kinship or affinity up to and including the fourth degree, to a professor of the Classes proposing the activation of the contract, or to the Rector, the Director General or a member of the Academic Senate of the School.

Exclusion from the selection process due to a lack of the mandatory requirements may be ordered at any time, even after the exams have been carried out, by means of a reasoned decree from the Rector and notified to the interested party.

Art. 4 – APPLICATION PROCEDURE AND SUBMISSION DEADLINE

The application to participate in the public selection, as well as the qualifications held, documents and attachments deemed useful for the selection procedure, must be submitted, under penalty of exclusion, electronically, using the IT platform dedicated at the web page:

<https://pica.cineca.it/iuss/>

No other methods of sending applications or documentation useful for participating in the procedure are accepted.

The procedure for completing and electronically submitting the application must be completed no later than:

11.59 pm Europe/Rome on April 22, 2025.

After the deadline for submitting the application, no additional documents are allowed, unless requested by the Administration in charge.

The online application necessarily requires the possession of an email address in order to self-register in the system. The candidate must enter all the data required to produce the application and attach the documents in electronic .PDF format.

The application must be filled out in all its parts.

Until the deadline for submitting the application, the procedure allows you to save the data entered in "draft" mode, allowing them to be modified and/or integrated.

By the aforementioned deadline, the application must be filled out definitively and the date of electronic submission will be certified by the computer system by means of a specific receipt that will be automatically sent by email. Once the application has been submitted and the confirmation email has been received, it will no longer be possible to access the application to modify it, but it can only be withdrawn by clicking the Withdraw button on the home page (dashboard). The candidate may eventually submit a new application.

Once the submission deadline has expired, the system will no longer allow access and submission of the electronic application.

Each application will be assigned a numeric identifier that must be specified in any communication relating to the procedure.

In case of access via SPID, no signature will be required during the application submission phase. In case of access to the system with another method, the submission of the application for admission must be completed and concluded as follows:

1. by digital signature, using smart cards, USB digital signature tokens or remote signatures, which allow the holder to digitally sign documents:
 - by digital signature, using smart cards, USB tokens or remote signatures, which allow the holder to sign generic documents using a signature software on a PC or a web portal for Remote Signature made available

by the Certifier. Those who have a smart card or a USB token for Digital Signature can verify its compatibility with the Digital Signature system integrated into the server system. If the outcome is positive, the holder can sign the application directly on the server (e.g. ConFirma);

- those who do not have compatible digital signature devices and Remote Digital Signature Holders who have access to a portal for signing generic documents, must save the PDF file generated by the system on their PC and, without modifying it in any way, digitally sign it in CAdES format: a file with the .p7m extension will be generated which must be uploaded to the system again. Any changes made to the file before the Digital Signature is applied will prevent the automatic verification of the correspondence between the content of that document and the original and this will result in the exclusion of the application.

If you are unable to use one of the two options above:
2. the candidate must save the PDF file generated by the system on his/her PC and, without making any changes, must print it and affix his/her full autograph signature on the last page of the printout. This document must be scanned and uploaded to the system.

Failure to sign the application form will result in exclusion from the procedure, except for submitting the application via SPID access.

For technical problems, contact support via the link at the bottom of the page <https://pica.cineca.it/iuss>

Art. 5 – CONTENT OF THE APPLICATION FORM

In the application form, candidates must select the procedure they intend to participate in, specifying the relevant Class, the Scientific Disciplinary Group and the Scientific Disciplinary Sector.

The candidates must then declare under their own responsibility and in accordance with articles 46 and 47 of the Presidential Decree of 28 December 2000, n. 445:

- a) their personal details, date of birth, citizenship, tax code, place of birth, residence and address chosen for the purposes of the competition, specifying the postal code, telephone number, email address and certified email address, if applicable;
- b) to be registered in the electoral lists of the Municipality of residence or of the country of residence, if different from Italy, or not to be registered, indicating the reasons for non-registration or cancellation from the same;
- c) possession of the qualification required in art. 3 of this call with the related information;
- d) possession of the additional specific requirements set out in D.D. n. 47 of 20/02/2025 and reported in art. 3 of this call;
- e) to be in enjoyment of civil and political rights in the country of membership or origin;
- f) not to have been dismissed for disciplinary reasons, removed or relieved from employment in a public administration for persistent insufficient performance, or not to have been declared to have forfeited a state employment pursuant to art. 127, first paragraph, letter d) of the Presidential Decree of 10.01.1957, n. 3 and not to have been dismissed for having obtained the employment through the production of false documents or by fraudulent means;
- g) not to have a degree of kinship or affinity up to and including the fourth degree with a professor belonging to the proposing Classes or with the Rector, the General Director or a member of the Academic Senate;

- h) not to be permanently employed by the institutions referred to in paragraph 1 of art. 22 of Law 240/2010 (universities, public research organisations and institutions whose postgraduate scientific diploma has been recognized as equivalent to a doctorate pursuant to article 74, fourth paragraph, of the Presidential Decree of 11 July 1980, no. 382) and not to have benefited from fixed-term researcher contracts pursuant to article 24 of Law 240 of 2010;
- i) that they are not, and not have been full or associate professors or permanent assistant professors, even if they have left the service;
- j) to be physically fit for continuous and unconditional service for the employment to which the selection procedure relates
- k) to be aware that the interview may take place electronically via the Zoom platform and that the tools indicated in art. 8 of this call are available;
- l) to be aware that any changes must be promptly communicated to the following address selezione.hr@iusspavia.it;
- m) to be aware that in the event that the qualification required for admission is obtained after the deadline established by this announcement, the position occupied in the ranking and the right to stipulate the contract will be forfeited;
- n) to be aware that, if employed by a public administration other than those referred to in paragraph 1 of art. 22 of Law 240/2010, whether they win the position of this call, they will have to be placed on leave or in a position of external role, without pay, starting from the date of actual hiring and for the entire period of the contract;
- o) not to have received criminal convictions and not to have pending criminal proceedings, or any convictions received, indicating the details of the relevant sentences (date of the provision and judicial authority that issued them), and any pending criminal proceedings against them. The existence of a previous criminal conviction is not in itself a reason for impeding employment, unless it is a conviction for a crime that prevents the establishment of an employment relationship with the public administration because it results in disqualification from holding public office, or the inability to contract with the public administration, or the termination of the employment relationship (articles 28, 29, 32-ter, 32-quater, 32-quinquies of the criminal code, articles 3,4, 5, Law no. 97 of 27 March 2001). In other cases, the Administration will be responsible for independently determining the seriousness of the criminally relevant facts committed by the interested parties, for the purposes of access to public employment. This check is carried out with the aim of ascertaining the existence of the element of trust which constitutes the fundamental prerequisite of the relationship between employer and employee, as well as for the purposes of assessing the existence of the requirements of moral suitability and the aptitude to carry out activities as a public employee.

The following documents must be attached to the online application:

1. scan of a valid identity document;
2. curriculum vitae certifying the scientific and professional activity of the candidate, dated and signed;
3. any other supporting documents that the candidate considers useful for the evaluation (e.g. list of publications, Master's degrees, postgraduate specialisation courses, scholarships and research contracts, awards and recognitions for research activities, letters of reference, etc.);

4. project proposal regarding the carrying out of the research program for which the position the candidate is applying for has been activated. Any information useful for the presentation of the project proposal is provided in the relevant attachment for each position.

In case of failure to attach the project proposal and/or curriculum vitae, the candidate will be excluded from the preliminary comparative evaluation, not being able to obtain the minimum score to access the interview.

Art. 6 – EXCLUSION FROM SELECTION

Candidates will be automatically excluded from the selection procedure in the following cases:

- Failure to comply with the prescribed application submission procedures and deadlines;
- Failure to meet the requirements set out in Article 3 of this call for applications.

All applicants will be admitted to the selection procedure. The Administration reserves the right to verify that they meet the conditions for participation. The Administration may decide to exclude a candidate from the selection procedure at any time, even after the interview. The exclusion is ordered by a reasoned decree of the Rector and is communicated to the interested party to the email address declared in the application as the official means of communication relating to this selection.

Art. 7 – SELECTION BOARD

For each procedure, the Selection Board is appointed by Rector's Decree and is composed of three members, including one with the role of President and one with the role of secretary, chosen from among the professors and researchers of the School or of other Italian or foreign institutions or among Italian or foreign experts.

Art. 8 – SELECTION PROCEDURE

For each procedure, the candidates are evaluated by means of a comparative procedure based on qualifications and an interview, with the aim of verifying that the project proposals correspond to the research projects to be selected and that the candidates have a scientific-professional curriculum suitable for carrying out the research activity that is the subject of the contract.

The final score is the sum of the scores obtained in the evaluation of the project proposal and the scientific-professional curriculum and the score obtained in the interview. A maximum of 100 points will be awarded, of which a maximum of 70 points will be awarded for the preliminary evaluation and a maximum of 30 points for the evaluation of the interview.

The Board will carry out the preliminary comparative evaluation on the basis of the following criteria:

- a) the project proposal submitted by the applicants:
- a.1) originality, methodological rigour, clarity and completeness of the project proposal, up to a maximum of 20 points;
 - a.2) consistency of the project proposal with the research project to be selected, up to a maximum of 20 points;
- b) the scientific-professional curriculum vitae of the applicants:
- b.1) relevance of the qualifications to the subject of the research project to be selected, up to a maximum of 10 points;

- b.2) consistency of the scientific production and its congruence with the project that is the subject of the call, up to a maximum of 10 points;
- b.3) relevance of previous research activities in relation to the research project to be selected, with particular reference to what has been carried out in the three years preceding the publication of the call, (e.g.: scholarships and research contracts, awards and recognitions for research activities, any letters of reference provided by the applicants, etc.), up to a maximum of 15 points.

The Board will give a reasoned opinion and assign a relative score for each individual evaluation criterion.

At the end of the pre-selection phase, candidates with a score of 50/70 or more will be invited for an interview

Candidates must take the interview on the day, place and time indicated in the attachments to this announcement. This communication is considered an official notification for all purposes.

The discussion with the Commission will be held in public, and also in electronic mode, using the audio and video teleconference tool via the Zoom platform (the location where the interview will take place must be equipped with a webcam – essential for recognition – a microphone and headphones and/or speakers).

Failure to show up or failure to connect electronically on the date and time of the interview will be considered a waiver of participation in the selection.

Candidates are called by publishing the admitted candidates list on the announcement web page on the School website, at the same time the scores obtained in the preliminary assessment will be made known to them.

Candidates must show up for the discussion with a valid identification document.

The interview is, in general, aimed at evaluating the scientific maturity and preparation of the candidates, with particular reference to the project being selected.

The discussion takes place in the language indicated in each attachment. During the interview, adequate knowledge of the foreign language indicated in the attachments to this announcement is also ascertained.

The interview is considered passed with a minimum score of 21/30.

The final score is given by the sum of the scores obtained in the evaluation of qualifications and in the interview.

The merit ranking, together with the identification of the winner of the selection, is approved by decree of the Rector, and it is immediately effective and is published on the notice board and on the website of the School.

Art. 9 – FORMULATION OF THE RANKING LIST

At the end of the interviews, the Board will draw up a merit ranking list for each call, taking into account the overall marks awarded to the candidates.

In the event of equal merit, preference will be given to the younger candidate..

The merit ranking list is approved pursuant to a decree of the Rector and is published on the official notice board of the School. The ranking list is valid for 6 months.

The time limit for appeals starts from the date of publication of this notice, in case the resolution has not been otherwise disclosed. Placement in the merit ranking does not constitute a qualification for subsequent selection procedures.

Art. 10 – DOCUMENTATION REQUIRED FOR PARTICIPATING IN PUBLIC SELECTIONS AND FOR RECRUITMENT PURPOSES

For the purpose of participating in the public selection procedure, documents and qualifications in English, French, German, and Spanish may be submitted in their original language.

Documents and qualifications in other languages must be submitted in the original language, accompanied by an Italian or English translation. The translation must be certified as faithful to the foreign text and may be made by the competent diplomatic or consular representation or by an official translator.

In the case of documents required for employment purposes, all deeds and documents written in a foreign language must be accompanied by a certified Italian translation, which can be made by the competent diplomatic or consular representation or by an official translator.

Art. 11 – CONTRACT STIPULATION

Each successful candidate will be invited to sign an individual contract with a view to entering into a fixed-term employment relationship within the **peremptory deadline of 15 May 2025**.

Entry into service is scheduled to coincide with the date of conclusion of the contract.

The employment relationship will be governed by the individual contract, by the Regulation on Research Contracts provided for in Article 22 of Law 240/2010, as amended by Law 79/2022, by statutory laws and by EU regulations.

The individual contract specifies the grounds for termination of the contract and the notice periods. In any event, the contract shall be terminated immediately and without notice in the event of the cancellation of the recruitment process to which it is inextricably linked.

The probationary period shall be three months. At the end of this period, unless the employment relationship has been terminated by one of the parties, the employee's service will be confirmed and the entire period worked from the start of the contract will be counted for seniority purposes.

Employees of public administrations other than those referred to in Article 22(1) of Law 240/2010 shall be placed on leave for the entire duration of the contract, without salary or social security contributions, or in a position outside their role, if such a position is provided for by the relevant regulations, also without salary or social security contributions.

In the event of renunciation or resignation of the winner within the same research project, compatibly with the timing and methods established by D.D. 47/2025, the Class that has requested the selection may demand the stipulation of a research contract with a candidate positively evaluated in the same selection following the decreasing order of the final score, provided that this score is higher than the threshold indicated in the announcement.

The research contract does not give rise to the right of access to permanent positions.

The holder of the contract who is a non-EU citizen, for hiring, must be in possession of a residence permit valid for work purposes in Italy.

Art. 12 – EXTENSION AND RENEWAL OF THE CONTRACT

The reasoned request for extension, in the case of national, European and international research projects, is submitted by the relevant Class Council, with the consent of the interested party, having decided on the needs relating to the objectives and type of project and the financial availability, at least three months in advance of the contractual expiry.

The reasoned request for two-year renewal is submitted by the relevant Class Council that activated the contract, having decided on the needs for the continuation of the research project and the financial availability, at least three months in advance of the contractual expiry.

The extension and renewal are approved by the Academic Senate, in a session prior to the expiry of the contract.

The extension and renewal contribute to the maximum term of five years overall envisaged for the duration of the contract.

During periods of compulsory maternity leave, contracts are suspended and the expiry date is extended for a period equal to that of compulsory maternity leave.

Art. 13 – RIGHTS AND DUTIES OF THE RESEARCHER

Without prejudice to the rights and duties provided for by the Civil Code for subordinate employment relationships, with the stipulation, the contractor assumes the right and obligation to carry out the activity referred to in art. 2 and in the specific attachment, committing to achieve the established objectives and to produce the expected results in compliance with the timetable of the project(s).

The contractor carries out the agreed activities in compliance with the hierarchical constraint existing in the Class of affiliation, with the obligation to coordinate his/her activity with what is foreseen in the research project.

The contractor personally carries out the requested activity, without availing himself/herself of substitutes, under the supervision of the scientific supervisor.

The legal provisions regarding maternity protection, accident and illness apply to the research contractor.

The research contractors are subject to the health checks provided for by Legislative Decree 81/2008 at the expense of the School.

Research contractors are required to comply with the provisions of the Regulation for the protection and enhancement of industrial property, the Regulation on Privacy and data processing and the School's Code of Ethics and Conduct.

Research contracts do not give rise to the right of access to the role of public bodies referred to in paragraph 1 of art. 22 of Law 240/2010, nor can they be counted for the purposes of art. 20 of Legislative Decree 25 May 2017, no. 75.

Art. 14 – SALARY TERMS

The holders of research contracts are entitled, for the duration of the relationship, to an all-inclusive gross annual salary pursuant to Art. 22 of Law 240/2010. The salary is defined according to the maximum level equal to the initial salary due to a full-time confirmed researcher, i.e. €38,986.48 gross annual salary recipient. The gross annual salary is not subject to indexation or revaluation.

Art. 15 – PERSONAL DATA PROCESSING

In accordance with the legislation on the protection of personal data (Legislative Decree 196/2003 and subsequent amendments and art. 13 of Regulation (EU) 2016/679), the Scuola Universitaria Superiore IUSS Pavia, as Data Controller (with registered office in Piazza della Vittoria, 15, 27100 Pavia PV – PEC direzione@pec-iusspavia.it) informs that the processing of personal data, collected at the administrative offices of the IUSS School, is aimed at carrying out the selection and for the assignment and management of the assignment; it will take place in compliance with the conditions of lawfulness provided for by Regulation (EU) 2016/679, by authorized personnel, with the use of computerized procedures, in the ways and within the limits necessary to pursue the aforementioned purposes. The data will be processed in accordance with the principle of necessity of processing and will be stored in accordance with the rules on the storage of administrative documentation. The provision of such data is necessary to evaluate the participation requirements and possession of qualifications and failure to indicate them may preclude such evaluation, with consequent exclusion from the procedure. The data may be communicated to public administrations directly interested in the legal-economic position of the positively evaluated candidate and to all those public bodies to which, in the presence of the relevant prerequisites, communication is mandatory (Certifying Administrations during the control of the substitute declarations made for the purposes of Presidential Decree 445/2000). The interested parties have the right to obtain from the IUSS Pavia University School, in the cases provided for, access to personal data and the correction or cancellation of the same or the limitation of the processing that concerns them or to oppose the processing (articles 15 and following of the Regulation). The specific request must be presented to the Owner.

Further information is available at the following link: <https://www.iusspavia.it/it/protezione-dati-personali>

Art. 16 – PROCEDURE SUPERVISOR

The person responsible for the selection process of this announcement is the Head of the Human Resources, General Affairs and Services Area, Dr. Francesca Barone.

For any information, please contact the Human Resources Selection Department (tel. 0382/375858 and/or 0382/375866 and/or 0382/375833 – email: selezione.hr@iusspavia.it).

Art. 17 – REFERENCES

For anything not expressly regulated in this announcement, the provisions set forth by the current legislation on the matter shall apply.

Pavia, date of the registration

THE RECTOR

Prof. Riccardo Pietrabissa

(Digitally signed pursuant to Legislative Decree 82/2005)

Attachments:

1. Class of Science, Technology and Society – GSD 02/PHYS-05 Astrophysics and cosmology, physics of space, earth and climate, SSD PHYS-05/A Astrophysics, Cosmology and Space Science – Title of the research project: “Exploring accretion across all mass scales, from white dwarfs to supermassive black holes”
2. 2. Class of Human and Life Sciences – GSD 10/GLOT-01 Glottology and linguistics, SSD GLOT-01/A Glottology and linguistics – Title of the research project: “The sentence structure: studies in formal and experimental Linguistics”



Codice bando: CR 20251_DM47_25 – ALLEGATO 1

Classe di Scienze Tecnologie e Società

02/PHYS-05 Astrofisica e cosmologia, fisica dello spazio, della terra e del clima

PHYS-05/A Astrofisica, cosmologia e scienza dello spazio

*DISCLAIMER: The English version is a translation of the Italian original for informational purposes only.
In case of any discrepancy, the Italian original shall prevail.*

| | |
|---|--|
| Titolo del progetto | Title of the research project |
| Studio dei processi di accrescimento su tutte le scale di massa, dalle nane bianche fino ai buchi neri supermassivi. | <i>Exploring accretion across all mass scales, from white dwarfs to supermassive black holes</i> |
| Numero dei posti per i quali viene deliberata la procedura | No. of positions |
| 1 | 1 |
| Descrizione del progetto di ricerca | Description of the research project |
| <p>La ricerca proposta studierà i processi di accrescimento su oggetti compatti in un'ampia gamma di scale di massa, dalle nane bianche, le stelle di neutroni e i buchi neri stellari fino ai buchi neri supermassivi al centro delle galassie.</p> <p>L'accrescimento, in cui il materiale cade nella buca gravitazionale degli oggetti compatti, è alla base di alcuni dei fenomeni più energetici dell'Universo e il suo studio può rivelare dettagli sulle condizioni di fisica estreme in quei siti e spiegare l'evoluzione di un'ampia gamma di sistemi astrofisici. I principali osservatori attualmente in funzione (ad esempio GAIA, eROSITA, Swift, XMM-Newton, Chandra, Fermi, XRISM, MeerKAT e JWST) offrono un'opportunità unica di esplorare attraverso un approccio multi-lunghezza d'onda sorgenti rare ed ancora poco comprese, per esempio sistemi di nane bianche doppiamente degeneri e stelle di neutroni, micro-quasar con buchi neri stellari, precursori di onde gravitazionali, sorgenti di raggi X ultraluminose o super soffici, brillamenti da nuclei galattici attivi e meccanismi di emissione insoliti, quali l'accrescimento balistico, modelli dominati da shock e quelli che coinvolgono sia dischi di accrescimento sia getti.</p> <p>Il progetto di ricerca ha carattere internazionale.</p> | <p><i>The proposed research will investigate accretion processes onto compact objects across a wide range of mass scales, from white dwarfs, neutron stars, and stellar black holes to supermassive black holes at the centers of galaxies. Accretion, where material falls into the gravitational wells of compact objects, drives some of the Universe's most energetic phenomena and its study may reveal insights into extreme environments and explain the evolution of a wide range of astrophysical systems. The main currently operating observatories (e.g. GAIA, eROSITA, Swift, XMM-Newton, Chandra, Fermi, XRISM, MeerKAT, and JWST) offer a unique opportunity to explore rare and intriguing sources by a multiwavelength approach, including double-degenerate white dwarf and neutron star systems, black hole micro-quasars, gravitational wave precursors, ultra-luminous or super- soft X-ray sources, flaring active galactic nuclei, and unusual emission mechanisms like direct impact accretion, shock-dominated models, and those involving both accretion disks and jets.</i></p> <p><i>The research project has international relevance.</i></p> |
| Gruppo Scientifico Disciplinare | Academic Recruitment Group |
| 02/PHYS-05 Astrofisica e cosmologia, fisica dello spazio, della terra e del clima | <i>02/PHYS-05 Astrophysics and cosmology, physics of space, earth and climate</i> |
| Settore Scientifico Disciplinare | Subject area |
| PHYS-05/A Astrofisica, cosmologia e scienza dello spazio | <i>PHYS-05/A Astrophysics, Cosmology and Space Science</i> |
| Durata del progetto e del contratto | Duration of the project and contract term |
| 24 mesi | <i>24 months</i> |



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|--|---|
| Sede di svolgimento delle attività | Location of the research activities |
| IUSS Pavia, Palazzo del Broletto, Piazza della Vittoria, 15. Pavia, 27100 | <i>IUSS Pavia, Palazzo del Broletto, Piazza della Vittoria, 15. Pavia, 27100</i> |
| Responsabile scientifico della ricerca (tutor) | Principal Investigator (tutor) |
| Prof. Paolo Esposito | <i>Prof. Paolo Esposito</i> |
| Attività di ricerca, obiettivi di produttività scientifica, caratteristiche qualitative della produzione scientifica | Research activities, scientific productivity objectives, qualitative characteristics of scientific production |
| L'avanzamento dell'attività, come prassi nel settore, sarà tracciato dalla produzione di articoli scientifici con peer review presso le principali riviste del settore. | <i>The progress of the activity will be tracked by the production of peer-reviewed scientific articles at leading journals in the field, as is the practice in the field.</i> |
| Importo Lordo annuo percipiente | Annual Gross Amount |
| € 38.986,48 | <i>€ 38.986,48</i> |
| Copertura finanziaria | Financial coverage |
| D.D. MUR 47/2025 – Investimento 1.2 “Finanziamento di progetti presentati da giovani ricercatori” CUP I17G25000050007 | <i>D.D. MUR 47/2025 – Investimento 1.2 “Finanziamento di progetti presentati da giovani ricercatori” CUP I17G25000050007</i> |
| Requisiti per partecipare alla selezione | Admission requirements |
| Dottorato di ricerca o titolo equivalente | <i>PhD or equivalent qualification</i> |
| Profilo del ricercatore | Researcher's profile |
| Ricercatore che abbia conseguito il dottorato in una delle seguenti tematiche: fisica, astrofisica, astronomia, cosmologia, scienze planetarie e discipline correlate, ingegneria spaziale, aeronautica e discipline correlate, avendo svolto un periodo, di almeno 3 mesi, di formazione e ricerca all'estero e che rientri nella definizione di “giovane ricercatore”, di cui all'art. 1, comma 8, del D.M. 47/2025. È necessaria esperienza di analisi dei dati astrofisici, sia dal punto di vista spettrale sia da quello di studi di serie temporali (timing). Sono importanti familiarità con l'analisi di Fourier, statistica e tecniche di machine learning. La posizione richiede anche la capacità di pianificare osservazioni astrofisiche con osservatori spaziali e terrestri. | <i>Researcher who has earned a Ph.D. in one of the following: physics, astrophysics, astronomy, cosmology, planetary science and related disciplines, space engineering, aeronautics and related disciplines, having completed a period, of at least 3 months, of training and research abroad and falling within the definition of “young researcher” in Art. 1, para. 8 of Ministerial Decree 47/2025. Experience in analyzing astrophysical data, both in spectral and timing studies, is required. Familiarity with Fourier analysis, statistics, and machine learning techniques are important. The position also requires the ability to plan astrophysical observations with space-based and ground-based observatories.</i> |
| Informazioni utili alla presentazione della proposta progettuale | Useful indications for submitting the research proposal |
| Un progetto che illustri le ricerche passate, gli interessi attuali ed in particolare i piani di ricerca futuri (In inglese, 3 pagine A4 al massimo, inclusi riferimenti e figure, carattere 11pt). Lo scopo della posizione è di condurre ricerche osservative multi-lunghezza d'onda in sistemi in accrescimento; quindi, è bene dare enfasi allo sfruttamento di archivi di dati pubblici e di dati provenienti da osservatori astronomici attuali e futuri. | <i>A statement detailing past research, current interests and, in particular, future research plans (English, 3 x A4 pages max, including references and figures, 11pt font). The purpose of the position is to conduct multi-wavelength observational research in accreting systems, so the focus should be on the exploitation of public data archives, and data from current and upcoming astronomical facilities.</i> |



Prova orale

La modalità di svolgimento del colloquio sarà da remoto, tramite una piattaforma di conference call. Verrà accertata l'adeguata conoscenza della seguente lingua straniera: inglese.
Il colloquio verrà condotto in lingua inglese.
La prova orale è fissata per il giorno 30 aprile 2025 a partire dalle ore 9:00.

Nell'Aula 1, Marelli – Piazza Ercole Marelli, Pavia
<https://iusspavia.zoom.us/my/ma.aula1>

Oral test

*The mode of conducting the interview will be remotely via a conference call platform.
Adequate knowledge of the following foreign language will be ascertained: English.
The interview will be conducted in English.
The interview is set for April 30, 2025 starting at 9:00.*

*In Aula 1, Marelli – Piazza Ercole Marelli, Pavia
<https://iusspavia.zoom.us/my/ma.aula1>*



Codice bando: CR 20251_DM47_25 – ALLEGATO 2

Classe di Scienze Umane e della Vita

10/GLOT-01 Glottologia e linguistica

GLOT-01/A Glottologia e linguistica

*DISCLAIMER: The English version is a translation of the Italian original for informational purposes only.
In case of any discrepancy, the Italian original shall prevail.*

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|---|---|
| Titolo del progetto | Title of the research project |
| La struttura della frase: indagini in linguistica formale e sperimentale | <i>The sentence structure: studies in formal and experimental Linguistics</i> |
| Numero dei posti per i quali viene deliberata la procedura | No. of positions |
| 1 | 1 |
| Descrizione del progetto di ricerca | Description of the research project |
| <p>Questo progetto si propone di indagare la struttura della frase attraverso un approccio combinato tra linguistica formale e sperimentale. Dal punto di vista teorico, verranno analizzati i principi formali, sintattici e semantici, che regolano la formazione della frase, con particolare attenzione al modello della grammatica generativa e alle interfacce tra grammatica e pragmatica.</p> <p>Sul piano sperimentale, la ricerca si concentrerà sull'elaborazione della struttura frasale in diversi contesti linguistici, in comprensione ed enunciazione, con un focus specifico su apprendenti L2 e individui con fragilità linguistiche.</p> <p>Tra i fenomeni che verranno affrontati compaiono le parole "funzionali" come la negazione e la copula, con le interpretazioni pragmatiche ad esse associate. Si pensi, a titolo esemplificativo, all'uso della negazione espletiva in frasi come "Luca è più alto di quanto non lo sia Gianni".</p> <p>L'uso espletivo delle parole funzionali rappresenta ad oggi una sfida teorica ed empirica non ancora esaurita.</p> <p>Per condurre questa ricerca si adotterà quindi una metodologia combinata, includendo analisi teoriche ed esperimenti che adottano varie tecniche sperimentali (esempio, l'eye-tracker). I dati raccolti consentiranno inoltre di affinare i modelli teorici esistenti e di sviluppare strumenti didattici innovativi per il potenziamento delle competenze linguistiche.</p> <p>Il progetto di ricerca è di carattere internazionale.</p> | <p><i>This project aims to investigate sentence structure through a combined approach of formal and experimental linguistics. From a theoretical point of view, the formal, syntactic, and semantic principles that govern sentence formation will be analyzed, with particular attention to the generative grammar model and the interfaces between grammar and pragmatics. On the experimental side, the research will focus on the processing of sentence structure in various linguistic contexts, both in comprehension and production, with a specific emphasis on L2 learners and individuals with language impairments. Among the phenomena to be addressed are "functional" words such as negation and the copula, and the pragmatic interpretations associated with them. For example, consider the use of expletive negation in sentences like "Luca è più alto di quanto non lo sia Gianni" (eng. "Luca is taller than Gianni is (not)").</i></p> <p><i>The expletive use of functional words remains a theoretical and empirical challenge that has not yet been fully explored.</i></p> <p><i>To conduct this research, a combined methodology will be adopted, incorporating both theoretical analyses and experiments employing various experimental techniques (e.g., eye-tracking). The data collected will also help refine existing theoretical models and develop innovative teaching tools aimed at enhancing linguistic skills.</i></p> <p><i>This research project is of an international nature.</i></p> |
| Gruppo Scientifico Disciplinare | Academic Recruitment Group |
| 10/GLOT-01 Glottologia e linguistica | 10/GLOT-01 Glottology and linguistics |
| Settore Scientifico Disciplinare | Subject area |
| GLOT-01/A Glottologia e linguistica | GLOT-01/A Glottology and linguistics |
| Durata del progetto e del contratto | Duration of the project and contract term |
| 24 mesi | 24 months |



| | |
|---|---|
| Sede di svolgimento delle attività | Location of the research activities |
| IUSS Pavia, Palazzo del Broletto, Piazza della Vittoria, 15. Pavia, 27100 | <i>IUSS Pavia, Palazzo del Broletto, Piazza della Vittoria, 15. Pavia, 27100</i> |
| Responsabile scientifico della ricerca (tutor) | Principal Investigator (tutor) |
| Prof. Matteo Greco | <i>Prof. Matteo Greco</i> |
| Attività di ricerca, obiettivi di produttività scientifica, caratteristiche qualitative della produzione scientifica | Research activities, scientific productivity objectives, qualitative characteristics of scientific production |
| L'attività di ricerca include sia analisi teoriche che sperimentali. Gli obiettivi di produttività scientifica associati a tale attività saranno quantificati in numero di pubblicazioni valide ai fini VQR (almeno una pubblicazione all'anno per un totale di due, una teorica e una sperimentale) e nella partecipazione a convegni internazionali (almeno uno all'anno). | <i>The research activity includes both theoretical and experimental analyses. The scientific productivity objectives associated with this activity will be quantified in terms of the number of publications recognized for VQR purposes (at least one publication per year, totaling two: one theoretical and one experimental) and participation in international conferences (at least one per year).</i> |
| Importo Lordo annuo percipiente | Annual Gross Amount |
| € 38.986,48 | <i>€ 38.986,48</i> |
| Copertura finanziaria | Financial coverage |
| D.D. MUR 47/2025 – Investimento 1.2 “Finanziamento di progetti presentati da giovani ricercatori” CUP I17G25000040007 | <i>D.D. MUR 47/2025 – Investimento 1.2 “Finanziamento di progetti presentati da giovani ricercatori” CUP I17G25000040007</i> |
| Requisiti per partecipare alla selezione | Admission requirements |
| Dottorato di ricerca o titolo equivalente | <i>PhD or equivalent qualification</i> |
| Profilo del ricercatore | Researcher's profile |
| Il/La ricercare/trice deve possedere una spiccata attitudine a lavorare su aspetti teorici e sperimentali della struttura della frase. È preferibile un'esperienza interdisciplinare che metta insieme i fondamenti della grammatica formale e almeno un paradigma sperimentale tra quelli utilizzati in psicolinguistica (es. Self-paced reading, eye tracking, EEG, ecc.). Il/La ricercatore/trice deve essere autonomo/a nella pianificazione del programma di ricerca. Ricercatore/trice che abbia concluso il percorso dottorale nelle seguenti tematiche: Linguistica e/o Psicologia (e affini), avendo svolto un periodo, di almeno 3 mesi, di formazione e ricerca all'estero e che rientri nella definizione di “giovane ricercatore”, di cui all'art. 1, comma 8, del D.M. 47/2025. | <i>The researcher must demonstrate a strong aptitude for working on both theoretical and experimental aspects of sentence structure. Interdisciplinary experience that integrates the foundations of formal grammar with at least one experimental paradigm commonly used in psycholinguistics (e.g., self-paced reading, eye tracking, EEG, etc.) is preferred. The researcher must be capable of independently planning the research program. Candidates should have completed a doctoral program in Linguistics or Psychology, or related fields, with a minimum of three months of training and research abroad. Additionally, they must meet the definition of a "young researcher" as specified in Article 1, Paragraph 8, of Ministerial Decree 47/2025.</i> |



Informazioni utili alla presentazione della proposta progettuale

Il progetto, vista la natura sia formale che sperimentale del presente bando, dovrà affrontare un fenomeno, o più, della struttura frasale adottando due diverse prospettive: una formale, dove verranno analizzati i principi sintattici e/o semantici che regolano il fenomeno scelto; una sperimentale, dove verranno discussi i punti salienti di uno studio che riguardi l'elaborazione di tale fenomeno attraverso almeno un paradigma sperimentale (ad esempio, compiti di lettura in eye-tracking, SPR, ecc.).

Solo a titolo esemplificativo, ma non esaustivo, tra i fenomeni della struttura frasale potranno essere considerate le parole "funzionali" (es. la negazione, la copula e i clitici).

Si raccomanda di evidenziare l'originalità scientifica della proposta e il suo impatto. All'interno di questo inquadramento, la proposta progettuale dovrà essere compresa tra le 3 e le 5 pagine e dovrà essere redatta in italiano o in inglese.

Prova orale

La modalità di svolgimento del colloquio sarà in presenza o da remoto in conference call. Verrà accertata l'adeguata conoscenza della seguente lingua straniera: inglese. La lingua in cui sarà effettuata tale prova sarà l'italiano o l'inglese (a scelta del candidato).

La prova orale è fissata per il giorno 05/05/2025 alle ore 10:30

Nell'aula 1.16 Broletto – Piazza Vittoria 15, Pavia

<https://iusspavia.zoom.us/my/br.aula1.16>

Useful indications for submitting the research proposal

Given the formal and experimental nature of the present call, the project must address one or more phenomena related to sentence structure from two distinct perspectives. The first is a formal perspective, which will analyze the syntactic and/or semantic principles governing the selected phenomenon. The second is an experimental perspective, which will discuss the key aspects of a study investigating the processing of this phenomenon using at least one experimental paradigm (e.g., eye-tracking reading tasks, self-paced reading, etc.).

As an illustrative example, but not exhaustive, functional words (e.g., negation, the copula, and clitics) may be considered among the phenomena of sentence structure that can be discussed in the research proposal.

The proposal should highlight its scientific originality and impact. Within this framework, the project proposal should be between three and five pages in length and may be written in either Italian or English.

Oral test

The interview will be conducted either in person or remotely via conference call.

Candidates' proficiency in the following foreign language will be assessed: English.

The interview will be conducted in either Italian or English, at the candidate's discretion.

The oral examination is scheduled for May 5, 2025, at 10:30 AM.

Aula 1.16 Broletto – Piazza Vittoria 15, Pavia

[*https://iusspavia.zoom.us/my/br.aula1.16*](https://iusspavia.zoom.us/my/br.aula1.16)