



**Call for Applications for the admission to the PhD programmes of the University of Udine in the Academic Year 2023/2024, 39<sup>th</sup> cycle**

**DISCLAIMER:**

The official and legally binding Call for Applications is in Italian only. This document cannot be used for legal purposes and it is only meant to provide information in English on the Call for applications (University Chancellor's Decree n. 347 of May 16, 2023). Please refer to the official Call for Applications published on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine. Any changes and integrations will be made available on the mentioned above web pages. Therefore, no personal written communication shall be provided to applicants about examinations dates, competition results and deadlines regarding the enrollment.

**ART. 1 – PhD PROGRAMMES**

1. The University of Udine sets up the following PhD programmes:

- Accounting and Management (Table 1)
- Law and Innovation in the European Legal Space (Table 2)
- Computer Science and Artificial Intelligence (Table 3)
- Industrial and Information Engineering (Table 4)
- Molecular Medicine (Table 5)
- Food Science (Table 6)
- Environmental and Energy Engineering Science (Table 7)
- Agricultural and Biotechnological Sciences (Table 8)
- Mathematical and Physical Sciences (Table 9)
- Clinical and Translational Medical Sciences (Scheda 10)
- Art History, Film Studies, Media Studies and Music (Table 11)
- Linguistics and Literature (Table 12)

2. The PhD Programmes last three years and are starting on November 1, 2023.

3. The activation of the PhD programmes is subject to the verification of the accreditation requirements by ANVUR, as required by the Decrees of the Ministry of Education of University and of Research n. 45 of February 8, 2013 and n. 226 December 14, 2021. If the accreditation should not be granted or revoked, the examination tests of the programme concerned are not going to be carried out and a notice will be given to all interested parties.

4. If limitations are introduced due to a sanitary or epidemiological emergency, the activities of the Ph. D. programmes could take place in a mixed modality, face to face and remotely. The methods of carrying out the activities will be communicated by the University of Udine when the programme will start.

5. In this document the titles referred to people, shown in male form only, refer indiscriminately to people of all genders.

**ART. 2 – GENERAL PROVISIONS**

1. This Call governs the procedures and criteria to access to the PhD programmes listed in art. 1.

2. Tables 1-12 are annexed to this Call for Applications and are integral part of it. They indicate for each of the activated PhD programmes: the administrative location and associated location(s) (if any); locations for training, teaching and research; the coordinator; programme duration; curricula (if available); research topics (if specified); proposed research programs (if specified); the website of the PhD programmes; admission requirements; documents and qualifications to be attached to the application for admission; the Selection Committee composition; admission procedure (available positions, with and without scholarships, and any reserved positions for specific applicants' categories; type and amount of scholarships, period abroad and referred research programs; conduct of



examinations; evaluation criteria; tests schedule; publication date of the list of admitted applicants to the examinations and the final ranking lists).

3. In the presence of additional funding from public and private institutions, available positions indicated in the PhD Tables (1-12), may be increased with an addition to the Call for Applications and its annexes as specified in paragraph 5, without prejudice to the submission deadline for the admission to the competition mentioned in art. 6.

4. Positions with scholarship might have reductions as provided in art. 11 paragraph 2 and art. 14 paragraph 7.

5. Any amendments and additions to this Call and its attachments are published on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine.

6. Only the Italian Call for applications is equivalent to notification for all purposes, including for the purpose of notification of the examinations, if provided.

7. The submission of the application through the online procedure referred to in art. 6, implies the acceptance by the applicant of the provisions contained in the Call for Applications and in the Internal Regulation of PhD Programmes available on the PhD website of the University of Udine.

8. Any personal communications to applicants concerning this competition are sent only to their e-mail address provided during the registration process referred to in art. 6 paragraph 2.

9. The University assumes no liability for the failure to receive messages due to incorrect contact details supplied by the applicant, for the failure or delay in notifying any change from the applicant and for postal or electronic problems in each phase of this competition.

### **Art. 3 – ADMISSION REQUIREMENTS**

1. Applicants of any nationality may apply for the competition if they have one of the following academic degrees at the expiration date of the call:

a) “Laurea Specialistica” or “Laurea Magistrale” or “Laurea vecchio ordinamento<sup>1</sup>” or second level academic degree comparable to them.

b) foreign degree, issued by a foreign official institution, comparable in duration and level<sup>2</sup> to the degrees referred to in letter a), and in the foreign system allows the admission to PhD programmes.

Tables 1-12 specify for each PhD programme the type of degree required for participation in the competition and any additional requirements.

2. Applicants can participate in the competition if they obtain their degree referred to in paragraph 1 by October 31, 2023. Applicants who do not obtain the degree by October 31, 2023 will be excluded. A score less than 95/110 implies the exclusion only for the PhD Programme in Law and Innovation in the European Legal Space. If applicants with the degree not yet obtained appear to be winners, they will be admitted and enrolled with reserve. They must certify their graduation in accordance with the procedure indicated in art. 5 paragraph 5 no later than October 31, 2023.

The documentation must be submitted by filling in the form available on the website:

[https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR\\_id=42104](https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR_id=42104)

3. All applicants are admitted to the competition on the condition that they meet the requirements of the Call. The University reserves the right to carry out sample checks<sup>3</sup> and it may exclude applicants at any time from the selection process if they fail to meet the requirements as set out in the present article, even after the PhD programmes have already begun.

<sup>1</sup> Degree awarded under the ante Decree of the Ministry no. 509 of November 3, 1999, modified with Decree of the Ministry no. 270 of October 22, 2004.

<sup>2</sup> Master of Science/Art

<sup>3</sup> Under Article 71 of D.P.R. December 28, 2000, no. 445



**Art. 4 – DEGREE OBTAINED ABROAD (art. 3 paragraph 1 letter b)**

1. The suitability of the foreign degree is assessed by the Selection Committee (art. 7) for the only purpose of participating in the competition and the enrolment in the PhD programme in accordance with:

- the current legislation in Italy and in the country where the degree was issued.
- treaties or international agreements on recognition of the degrees for further studies.

The Selection Committee assesses the suitability of the foreign degree based on the documentation attached through the online application for the admission to the competition (articles 5 and 6). The Selection Committee may therefore exclude the applicant whenever the documentation submitted does not provide sufficient evidence for the evaluation. Therefore, applicants must attach all the documents in their possession relating to the degree held, in order to provide sufficient elements for the assessment of the Selection Committee.

2. Applicants with a degree obtained in a foreign university, if winners of the competition, must submit during the enrolment procedure (if they have not already submitted it during the online application), under penalty of exclusion from the PhD programme:

**For foreign degrees issued in a UE country, one of these options:**

- Diploma Supplement in English;
- “Statement of comparability - CIMEA” issued in accordance with the terms set on [www.cimea.it](http://www.cimea.it).

**For foreign degrees issued in an EXTRA UE country, one of these options**

- Declaration of Local Value of the degree and the certificate regarding the degree with exams and grades. The certificate in a language different from Italian or English must be accompanied by the translation in one of the two languages mentioned (the translation must be legalized by the diplomatic-consular competent authority or certified by an Italian Court).
- “Statement of comparability - CIMEA” issued in accordance with the terms set on [www.cimea.it](http://www.cimea.it).

If the Diploma Supplement or the Declaration of Local Value/Statement of comparability is not available by the enrolment procedure, the applicant must demonstrate having made a request by that date and submit it as soon as possible.

**Art. 5 – QUALIFICATIONS SUBJECT TO ASSESSMENT AND DOCUMENTS TO BE SUBMITTED**

1. Applicants must submit the mandatory documents and qualifications specified for each PhD programme in Tables 1-12.

2. Tables 1-12 also specify optional documents and qualifications provided by each PhD programme.

3. For a correct submission of the application, applicants are invited to use the forms attached which are integral part of the Call.

4. Documents and qualifications referred to in paragraphs 1 and 2 must be submitted in Italian or English, under penalty of not evaluation. Documents and qualifications, originally in a different language, must be accompanied by a translation in Italian or English made by the applicant, under his/him responsibility. The translation of the thesis can be an extended abstract in place of the complete thesis.

5. Italian and EU applicants who present qualifications referred to states and facts attested by Public Administrations, must use a self-certification.

Non-EU citizens, legally residing in Italy, may self-certify only information that can be verified or certified by Italian public entities. They can also use a substitute statement of certification, when it is provided by an international agreement between Italy and the applicant’s country.

Non-EU citizens other than those above mentioned must refer to the provisions of art. 3 paragraphs 3 and 4 of the d.P.R.445/2000<sup>4</sup>.

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<sup>4</sup> Under the D.P.R. December 28, 2000, n. 445 and subsequent amendments and additions.



6. The only documents evaluated are those the applicant has submitted within the terms and the manners referred to in art. 6 within the expiration date of the Call. Documents submitted in any other way are not be subjected to evaluation.

7. Failure to submit the mandatory documents specified in Tables 1-12 means the exclusion from the selection process.

#### **Art. 6 – APPLICATION FOR ADMISSION**

1. Entries to competitions begin on **Friday May 19, 2023 at 02:00 p.m. (Italian time)** and end on **Thursday June 22, 2023 at 02:00 p.m. (Italian time)**.

2. **The application for admission must be completed, under penalty of exclusion, using the online procedure** that involves two stages:

- **Stage I – Registration at the University website** (<https://uniud.esse3.cineca.it>): this allows the applicant to obtain a username and password (credentials) in order to continue with the next stage<sup>5</sup>;
- **Stage II – Filling out the online application** (<https://uniud.esse3.cineca.it>): the applicant must print out the application form at the end of Stage II, in order to retain it as proof of submitted application together with the receipt of the fees payment referred to in paragraph 8 of this article.

3. The instructions for the registration and for submit the application are available on the PhD website of the University of Udine.

4. Documents, qualifications and publications referred to in art. 5 must be attached to the online application in electronic format (.pdf), except for the letters of reference. **Files and/or folders, compressed in RAR or ZIP format, cannot be larger than 5 MB.** The applicant can add, delete or modify the attached documents even after the conclusion of stage II, but before the expiry of the call, on **June 22, 2023 at 02:00 p.m. (Italian time)**. The university administration assumes no liability if the documentation submitted is illegible because of damaged files or folders.

5. Every folder/file attached must be named as follows: surname of the applicant\_PhD programme\_document (e.g.: McDONALD\_Food and Human Health\_Curriculum).

6. Letters of reference, if provided by the PhD programme (Tables 1-12), must be uploaded on the online process by the referees at the applicant's request. During the submission of the application, the applicant must enter the email address of the referees, who will receive an email notification with the instructions to proceed for uploading the letter. Applicant and referee receive a notification about the successful upload of the letter, which will be available only for the Area Servizi per la Ricerca – Ufficio Formazione per la Ricerca and for the Selection Committee. The applicant can make a reminder to the referee and replace his/her name with another by the expiry date of the call (**June 22, 2023 at 02:00 p.m. Italian time**).

The referee must upload the letter of reference before **June 23, 2022**.

7. The admission to the selection procedure is subject to the payment of euro 25,00 (as a contribution for participating in the competition). Applicants must pay the fee by **June 22, 2023**. Applicants who will not have paid the above-mentioned contribution (euro 25.00) by the day before the date of the Selection Committee's preliminary meeting, will be excluded. The dates of the Selection Committee's preliminary meeting will be posted by June 7, 2023 on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine.

8. The amount referred to in paragraph 7 is not refundable for any reason and must be paid via PagoPA service using one of the following options:

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<sup>5</sup> If the applicant already owns the credentials to access the reserved area (e.g.: former student of University of Udine) this step should not be considered.



- direct access from Esse3 to one of the payment methods available in PagoPA using the data contained in the "Avviso di pagamento" (Notice of Payment) issued at the end of the online application (available on the "Student Administration Office/Payments" of Esse3 portal personal area);
- payment at bank branches and receivers authorized to pay via PagoPA showing the "Avviso di pagamento" (Notice of Payment) issued at the end of the online application (available on the "Student Administration Office/Payments" of Esse3 portal personal area);
- from your account with online services (if activated by the bank) or with credit card or prepaid card with IBAN. For payments by credit or prepaid card refer to the circuit related to the card, NOT to the bank issuing the card. You need to print or save the "Avviso di pagamento" (Notice of Payment - available on the "Student Administration Office/Payments" of Esse3 portal personal area) to have the data required to make the payment.

Applicants who are abroad and don't have an Italian current account can **exceptionally** make the payment on the bank account of the University of Udine at INTESA SANPAOLO: **IT59A0306912344100000046097 SWIFT/BIC BCITITMM** reason for payment "PhD competition – Applicant's Name and Surname". Only in this case, the receipt of the payment have be attached to the online application.

The payment is subject to the fees applied by the payment service provider.

9. Applicants who wish to apply for several PhD programmes have to submit several applications, attaching the required documents to each one and paying the fees for each one (paragraph 7). However, the applicant cannot apply for more than one curriculum in the same PhD programme.

10. Applicants with certified disabilities or specific learning disorders, may notify them during the online application (refer to paragraph 2 of this article):

- their situation attaching the certificate attesting the disability or the specific learning disorder;
- aids to conduct the examinations.

Applicants with disabilities or learning disorder, residing in foreign countries, who intend to take advantage of the measures described above, have to present a certificate attesting to the state of disability or the learning disorder issued in their country of residence. The certificate has to be accompanied by a sworn translation in Italian or English language. The university bodies in charge to check the certifications verify that foreign certificate attests a condition of disability or specific learning disorder recognized by Italian legislation.

The different ways of supporting the examinations will be defined by the Selection Committee after checking the documentation submitted. In particular, for students with specific learning disorder, an additional time of 30 per cent more than the time defined for the admission test, will be granted. In case of particular gravity, additional aids may be provided.

Further information can be provided by the Direzione didattica e Servizi agli Studenti (DIDS) – Servizio studenti con disabili o dsa, tel. +39 0432 556804 - email: [servizi.disabili@uniud.it](mailto:servizi.disabili@uniud.it), [dsa@uniud.it](mailto:dsa@uniud.it)

11. The university administration assumes no liability for loss information due to an error that has not committed, for incorrect data given by the applicant relating to residence, mailing and email addresses and for failure or delay in notifying their change.

12. Applicants are advised not to wait until the last days before the deadline of the online procedure. The University assumes no liability for any malfunctions due to technical problems and/or overloading of the communication line and/or application systems.

#### **Art. 7 – SELECTION COMMITTEE**

1. The Selection Committee of each PhD programme is specified in Tables 1-12.

2. Each Selection Committee appoints its own internal President and Secretary in the first meeting.

3. Before the evaluation of the qualifications and before the start of the examinations, the Selection Committees define the evaluation criteria and the scores assigned to the qualifications and to the examinations, considering the specifications set out in Tables 1-12.



4. The Selection Committee meetings can be held remotely.
5. The Selection Committee expresses the assessment of suitability with the aim of awarding scholarships referred to in art. 11, paragraph 2.
6. The Selection Committee's tasks finish with the drawing up of the reports and final ranking lists.

#### **Art. 8 – GENERAL COMPETITION**

1. The applicants' selection foresees the evaluation of the qualifications and the conduct of the examinations, in the manner and on the dates specified in Tables 1-12. Any changes or additions to the examinations schedule are posted only on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine.

2. Evaluation of qualifications and examinations are held according to the following general provisions:

- a. the maximum score for overall qualifications and examinations is 100 (100/100). The examinations of the PhD programmes with widely different curricula may be diversified;
- b. the maximum score for qualifications is 30 (30/100), the minimum score to be admitted to the first examination (written or oral) is stated in each table;
- c. the score assigned for the examinations is 70 points (70/100). Applicants are suitable if they obtain a score equal to or greater than 49 in the examinations;
- d. the final ranking list is unique and is prepared, for only eligible applicants, by adding up the scores obtained in the evaluation of the qualifications and in the examinations.

3. Applicants must show a valid identity document for admission to the examinations.

4. Applicants unable to attend the oral examination at the University of Udine, due to a permanent abroad residency at the date of the examination or for valid and well-documented reasons, may request to the Selection Committee to take the oral examination remotely. This request may also be submitted to the Selection Committee later, but in any case, before the date set for the oral test. The request must be sent using the form available on the website:

[https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR\\_id=42104](https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR_id=42104)

Details of the remotely oral examination are communicated to the applicants at the e-mail address entered during the registration procedure referred to in art. 6 paragraph 2. Applicant must be available during the day and the timetable notified. For identification purposes, and under penalty of exclusion from the selection process, each applicant must identify itself before the interview begins, exhibiting the same identity document attached to the online application. The failure to communicate the personal address, the connection failure, the unavailability of the applicant on the day or in the established timetable or the failure exhibition of the identity document are grounds for the exclusion from the selection process. Such grounds for exclusion are not applied if the applicant, with a valid identity document, is present on the day fixed for the oral examination, with the aim to take the oral examination personally.

The University accepts no responsibility in case of technical problems that do not ensure the proper conduct of the oral examination remotely.

5. The University reserves the right to manage the oral examination remotely if restrictions on mobility and aggregation are introduced due to health and epidemiological emergency. The University will make this procedure known on the official register (<https://www.uniud.it/it/albo-ufficiale>) and in the PhD website of the University of Udine. In this case, the provisions of the above paragraph 4 are applied, as they are compatible.

6. Oral examinations are public, including those which are conducted remotely.

#### **Art. 9 – COMPETITION RESERVED FOR: APPLICANTS WITH DEGREE OBTAINED IN A FOREIGN UNIVERSITY, APPLICANTS HOLDING FOREIGN PhD GRANTS OR APPLICANTS HOLDING INTERNATIONAL MOBILITY PhD GRANTS**



1. Applicants with a degree obtained in a foreign university or holders of a foreign 3-years PhD grant from other countries or holders of an international 3-years mobility grant may choose to compete for the positions reserved, if the individual PhD programme provides them (Tables 1-12). In this case, they will be only assessed on the basis of their qualifications.
2. During the online procedure applicants referred to in paragraph 1 must choose "Competition reserved" (for applicants graduated abroad or for holders of foreign 3-years PhD grants/international 3-years mobility grants).
3. The final ranking list of reserved competition is different from the final ranking list of the general competition referred to in art. 8.
4. The evaluation of qualifications takes place according to the following general provisions:
  - the maximum score is 100 (100/100);
  - applicants with a score lower than 70 (70/100) are not suitable.
5. If there are no eligible applicants, the positions reserved for applicants with a degree obtained in a foreign university, are added to the general ranking list (art. 8) of the same PhD programme.

#### **Art. 10 – FINAL RANKING LIST**

1. The final ranking list referred to in art. 8 and 9 are published on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine within the dates detailed for each PhD programme in Tables 1-12.
2. The university does not send out any communication to the applicants.

#### **Art. 11 – ADMISSION TO THE PhD PROGRAMME**

1. Applicants are admitted to each PhD programme according to the final ranking list order and in accordance with the provisions contained in this article.
2. The positions with scholarship are awarded to eligible applicants as stated below:
  - a) Scholarships referred to specific research programs funded by "external institution" or by associated locations are awarded according to the final ranking list and the number of positions available. Applicant is suitable if he/she has expressed interest during the oral examination and if the Selection Committee expresses the assessment about the adequacy of applicant's qualifications and curriculum with the research topics and the scholarship features;
  - b) PhD scholarships funded by the University of Udine or by associated locations, not referred to specific research programs, are awarded according to the final ranking list and the number of positions available.
  - 2.1 If the suitable applicant is in a position useful for both types of scholarships, the Selection Committee specifies an order of priority to assign the scholarships considering the final evaluation.
  - 2.2 The non-allocation of scholarships in point a) and b) involves a reduction in the number of the positions with scholarship.
  - 2.3 In case of equal final score and equal requirements, the preference criteria to award positions with scholarship is the economic condition of the applicant's family nucleus<sup>6</sup>.
3. The positions without scholarships are awarded to eligible applicants as stated below:
  - a) positions without scholarship "referred to specific curricula" according to the final ranking list and the number of available positions, taking into account the curricula selected by the applicant;
  - b) positions without scholarship "with no specification" according to the final ranking list and the number of available positions.The allocation of positions without scholarships in letter a) precedes, according to the final ranking list, those in letter b).

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<sup>6</sup> Current legislation about the right to study, ISEE.



3.1. In case of equal final score in the final ranking list, the preference criteria to award positions without scholarship is the youngest applicant; in case of equal final score and equal age, the priority is given to the applicant with the highest degree mark.

4. Applicants referred to in art. 9 paragraph 1, if eligible, are admitted to each PhD programme according to their position on the final ranking list and the number of available reserved positions.

5. If the candidate has been successfully placed in more than one final ranking list for different PhD programmes, he/she must enrol in only one Programme.

#### **Art. 12 – ENROLMENT**

1. **Successful applicants must enrol using the appropriate online procedure according to the deadlines and conditions notified by email, under penalty of exclusion (art. 2 paragraph 8).**

2. Enrolment to the PhD programme is subject to the payment of the amount specified in art. 15, under penalty of exclusion from the programme.

3. The amount referred to in paragraph 2 is not refundable for any reason and the payment must be made via PagoPA service using one of the following options:

- direct access from Esse3 to one of the payment methods available in PagoPA using the data included in the “Avviso di pagamento” (notice of Payment) issued at the end of the online application (available on the “Student Administration Office/Payments” of Esse3 portal personal area);
- payment at bank branches and receivers authorized to pay via PagoPA showing the “Avviso di pagamento” (notice of Payment) issued at the end of the online application (available on the “Student Administration Office/Payments” of Esse3 portal personal area);
- from your account with online services (if activated by the bank) or with credit card or prepaid card with IBAN. For payments by credit or prepaid card refer to the circuit related to the card, NOT to the bank issuing the card. You need to print or save the “Avviso di pagamento” (notice of Payment - (available on the “Student Administration Office/Payments” of Esse3 portal personal area) to view the data required to make the payment.

Applicants who are abroad and don't have an Italian current account can **exceptionally** make the payment on the bank account of the University of Udine at INTESA SANPAOLO: **IT59A030691234410000046097 SWIFT/BIC BCITITMM** reason for payment "Enrolment in PhD programme".

4. Applicants must attach in electronic format the following documents in order to complete the enrolment:

- a passport photo (.jpeg format);
- a copy of a valid identity document (.pdf format);
- a copy of the Tax Identification Number, if available (.pdf format);
- the receipt of payment referred to in art. 15 (only if the payment is made on the bank account);
- the form of bank details (.pdf format);
- documents referred to in art. 4, for applicants with degree obtained abroad (.pdf format);
- other documents if required by the University of Udine (.pdf format).

5. The amount paid is not refundable for any reason.

6. Admitted applicants without scholarship must enrol in the programme by the deadline referred to in paragraph 1, if they are interested in any replacements for positions with scholarship as a result of a waiver.

7. Non-UE Citizens must comply with the rules on visas and residence permits. A copy of the residence permit or – pending the release – the receipt of the application for the residence permit must be submitted to Area Servizi per la Ricerca – Ufficio Formazione per la Ricerca, via Mantica, 31 – 33100 Udine.





8. The university administration assumes no liability for loss of communications due to any errors that cannot be attributed to it.

#### **Art. 13 – REPLACEMENTS**

1. Candidates who do not enrol according to the deadlines referred to in art.12 are considered to have withdrawn. The positions that have become available, are assigned to other applicants according to the final ranking list, taking into account art. 11.

2. The list of replacement applicants is posted on the official register (<https://www.uniud.it/it/albo-ufficiale>) and on the PhD website of the University of Udine.

3. The replacement applicants must enrol under the deadlines and conditions communicated by email (art. 2 p. 8), under penalty of exclusion from the programme.

4. Any further replacements positions will be notified directly to the relevant applicants.

#### **Art. 14 – SCHOLARSHIPS**

1. Scholarships are regular or linked to specific research programs or to specific financial funds.

2. Scholarships are awarded in accordance with art.11. The scholarship begins from November 1, 2023.

3. The scholarships have a duration of three years, subject to the provisions of art. 19 p. 3, art. 20 p. 2 and art. 24 of the Internal Regulations for the PhD Programmes. Scholarships are renewed annually on condition that the PhD student has completed the program of planned activities, as verified by the Teaching Board.

4. The annual gross amount of the scholarship is specified in Tables 1-12 and is subject to the social security tax (INPS a gestione separata). The scholarship is paid on monthly basis in the following month. The amount of the scholarship is increased for research activities abroad by the 50% for a total period specified in Tables 1-12, unless additional financial resources are available. In any case, the increase is only due to periods of continuous stay and longer than 30 days.

5. The scholarship cannot be awarded to those who have already received a scholarship to attend another PhD programme or an equivalent programme.

6. The scholarship cannot be combined with research grants or other scholarships awarded for any purpose, except for those awarded by national or foreign institutions useful to integrate the abroad research activity of the PhD students. Further incompatibilities are defined by the Internal Regulation for the PhD programmes.

7. Scholarships funded by “external institutions” and associated locations are awarded upon the successful completion of the conditions set out in the act that regulates its funding or the issuing of the decree granting the funds.

#### **Art. 15 – ACADEMIC FEES**

1. For the Academic Year 2023/2024 is foreseen the payment of maximum amount of euro 276.00:

- university contribution, euro 100.00;
- regional tax for the right to university study, from euro 120.00 to euro 160.00 (economic condition of the applicant's family nucleus<sup>7</sup>);

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<sup>7</sup> Current legislation about the right to study, ISEE. The deadline for the delivery of the ISEE (apart from exceptional cases, in any case to be assessable) is 30 days from the date of enrolment. For further information, please refer to the Additional Notice of the “Manifesto degli Studi” concerning fees, contributions and exemptions.



- duty stamp, euro 16.00.  
The amount will be requested at the moment of the enrolment and any exemption will be applied in accordance with the current legislation.
2. However, the university administration reserves the right to adopt different regulations for the following academic years.

#### **Art. 16 – PERSONAL DATA**

1. The personal data collected under the procedure referred to in art. 6 are necessary for the proper management of the selection procedure, for any subsequent career management and for purposes related to the management of the services provided to students during the university PhD programme. The University of Udine is the “Data Controller”. At any time, you can request access, corrections and, according to the University institutional purposes, the cancellation and limitation of the processing or oppose the processing of your data. You can always submit a complaint to the Italian Authority for data protection. The complete information is available on the University of Udine website in the section “privacy” accessible from the home page [www.uniud.it](http://www.uniud.it).

Direct link: <https://www.uniud.it/it/it/pagine-speciali/guida/privacy>

#### **Art. 17 – HEAD OF PROCEDURE**

1. The officer in charge of the proceedings is Dr. Sandra Salvador, Head of Area Servizi per la Ricerca of the University of Udine.

The PhD Office of the University of Udine is the Area Servizi per la Ricerca – Ufficio Formazione per la Ricerca, via Mantica n. 31 - 33100 Udine.

2. To request information, fill in the following forms available on the website of the University of Udine: Information about the Call:

[https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR\\_id=42104](https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR_id=42104)

[https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR\\_id=42094](https://helpdesk.uniud.it/Login.jsp?manual=true&populateSR_id=42094)

#### **Art. 18 – REFERENCE RULES**

1. For matters not covered by this Call, please refer to the National legislation in the field of doctoral research mentioned in the introduction, to the Internal Regulations for the PhD programmes and to the Rules of Procedure relating to patents available on the web page of the University of Udine dedicated to the PhD programmes.



**TABLE 1 – PhD Programme in ACCOUNTING AND MANAGEMENT**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Economics and Statistics (DIES) - via Tomadini 30/A, 33100 Udine, ITALY (tel. +39 0432 249380)
<b>Associated location</b>	University of Verona (Department of Management) – Via Cantarane, 24 - 37129 Verona, ITALY
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location and at the associated programme location, or in other locations of the University of Udine and Verona or in other locations which participate to the doctoral project with which the PhD programme has teaching agreements. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Filippo Zanin (filippo.zanin@uniud.it).
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<p>Performance measurement systems (PMS, VBMS, SPMS)  Valuation. Business and asset valuation  Management and cost accounting  Environmental complexity, business complexity and management accounting  Financial and non-financial accounting and reporting  Accounting for sustainability  Corporate reporting and stakeholder engagement  Accounting as social and institutional practice  ESG Value relevance  Management compensation and corporate reporting  Audit and assurance quality  Misbehaviours in accounting and reporting  Corporate Sustainability  New Business Models for Sustainability  Sustainability performance measurement and reporting  Governance, internal auditing and risk management  Strategy innovation in public and/or healthcare institutions  Performance evaluation in public administration  Management accounting in public institutions  Public accounting and financial management in MENA (Middle East and Northern Africa) countries  Complexity management, foresight and resilience  Business model innovation, sustainability and servitisation  Circular economy and sustainability: ownership and governance structures and business models  Corporate finance, entrepreneurial finance and institutional investors  Bank regulation and financial stability  Long term investment horizons: insurance and pension schemes  Private capital market financing and investors: trends and new perspectives  Climate change, green and ethical finance: implications for the financial sector and SMEs financing and investment decisions  From inter-organizational network to platform economy  Sustainable digital business model  Logistics management &amp; Supply Chain Management  Omnichannel strategy and customer service  Logistics and supply chain management within the circular economy practice  Supply chain strategy and risk management  Co-creation of value in service marketing  New trends in consumer behaviour  Reframing service marketing in the face of Covid 19  Sustainable governance and agile organization  Semantic textual analysis for social media marketing  Internationalization and digital transformation  Internationalization, innovation and sustainability  Sustainability and innovation adoption in the food value chain  Food consumer behaviour analysis  Interactions between agribusiness, tourism and rural development  Event Management in Sport and Tourism  Marketing Management. New Trends in Sport and Tourism</p>
<b>Research programs</b>	-



**TABLE 1 – PhD Programme in ACCOUNTING AND MANAGEMENT**

<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/accounting-and-management-1/ph-d-programme/accounting-and-management?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/accounting-and-management-1/ph-d-programme/accounting-and-management?set_language=en</a>
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**ADMISSION REQUIREMENTS**

<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea specialistica/magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

**DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION**

<b>Compulsory documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes, or during the Italian programmes before D.M. 509/99, or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. A research project (one), dated and signed, developed under <b>one of the topics indicated above</b> (approximate limit 10.000 characters, spaces included, <b>in English language</b>).</li> </ol>
<b>Optional documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>

**SELECTION COMMITTEE**

<b>Appointed members</b>	Alessandro Lai – Full professor – University of Verona Cecilia Rossignoli – Full professor – University of Verona Cinzia Battistella – Associate professor – University of Udine Filippo Zanin – Associate professor – University of Udine Josanco Floreani – Associate professor – University of Udine
<b>Substitute members</b>	Riccardo Stacchezzini - Full professor – University of Verona Eugenio Comuzzi – Full professor – University of Udine Maria Chiarvesio – Full professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

**Positions available: 8**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 8</b>	5	Univ. of Udine	€ 16,243.00	max 6 months optional	Research program in line with topics
	3	Associated Institution: Univ. Verona	€ 16,243.00	max 6 months optional	Research program in line with topics
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	0	-	-	-	-

**Competition procedure and test schedule**

Evaluation of qualifications and oral examination.

For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is admitted to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.

**DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023**

**DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023**

<b>Foreign language that can be used for examination</b>	English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	10
	Research project	18
	Letters of reference	2
<b>Oral examination</b>	<b>As all the classes are held in English, the oral examination will take place in English.</b>	
<b>Date</b>	<b>July 19, 2023</b>	



**TABLE 1 – PhD Programme in ACCOUNTING AND MANAGEMENT**

Calendar of the oral examination	<b>Time</b>	9:00 AM
	<b>How to conduct the examination</b>	ONLINE, via M TEAMS
	Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 2 – PhD Programme in LAW AND INNOVATION IN THE EUROPEAN LEGAL SPACE**

<b>THE PHD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Legal Science (DISG), via Treppo 18, 33100 Udine, ITALY (tel. +39 0432 249520)
<b>Associated location</b>	University of Trieste (Department of Legal, Language, Interpreting and Translation studies) - piazzale Europa 1, 34127 Trieste, ITALY
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Paolo Giangaspero (giangasp@units.it)
<b>Programme duration</b>	3 years
<b>Curricula</b>	1. <b>Private and Economic Area:</b> (IUS/01 Private Law, IUS/02 Comparative Private Law, IUS/03 Agrarian Law, IUS/04 Commercial Law, IUS/06 Maritime Law, IUS/07 Labour Law, IUS/18 Roman Law) 2. <b>Public Area:</b> (IUS/08 Constitutional Law, IUS/10 Administrative Law, IUS/21 Comparative Public Law, IUS/13 International Law, IUS/14 European Law, IUS/12 Tax Law, IUS/15 Civil Procedure; IUS/17 Criminal Law, IUS/16 Criminal Procedure)
<b>Research topics</b>	Research topics covered under the scientific domains (IUS/) within each Curricula of the Ph.D. programme.
<b>Research programs</b>	The research programs are determined by the Teaching Board in the field of subjects referred to one or more scientific domains included in the curricula of the Ph.D. programme.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/law-and-innovation-in-the-european-legal-space/ph-d-programme/law-and-innovation-in-the-european-legal-space?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/law-and-innovation-in-the-european-legal-space/ph-d-programme/law-and-innovation-in-the-european-legal-space?set_language=en</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

<b>DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents (art. 5 of the Call)</b>	1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and mark degree. Applicants with qualification not yet obtained must submit certification or self-certification (as art. 5 paragraph 5 of the Call) of the academic degree needed for admission to the PhD programme and list of exams (list of exams: single score, average score and maximum score); 2. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry); 3. In the application (see art. 6 of the Call) applicants must choose irrevocably the scientific domains (SSD) on which the examination tests will concern: IUS/01 Private Law, IUS/02 Comparative Private Law, IUS/03 Agrarian Law, IUS/06 Maritime Law, IUS/10 Administrative Law, IUS/17 Criminal Law, IUS/18 Roman Law, IUS/21 Comparative Public Law.
<b>Optional documents (art. 5 of the Call)</b>	-
<b>All titles must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	Raffaella Pasquili – Associate Professor – University of Udine Paola Ziliotto – Associate Professor – University of Udine Pamela Lattanzi – Full Professor – University of Macerata Daniele Casciano – Associate Professor – University of Udine Laura Montanari – Full Professor – University of Udine Leopoldo Coen – Associate Professor – University of Udine Enrico Amati – Associate Professor – University of Udine
<b>Substitute members</b>	Angelo Venchiarutti – Associate Professor – University of Trieste Paolo Ferretti – Full Professor – University of Trieste



**TABLE 2 – PhD Programme in LAW AND INNOVATION IN THE EUROPEAN LEGAL SPACE**

	<p>Silvia Bolognini – Full Professor – University of Udine  Rocco Lobianco – Associate Professor – University of Udine  Elena D’Orlando – Full Professor – University of Udine  Giulia Milo – Assistant Professor– University of Trieste  Nicola Recchia – Assistant Professor – University of Trieste</p>
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**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

**Positions available: 7**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 7</b>	<b>4</b>	Univ. Udine	€ 16,243.00	Max 6 months optional	Research program in line with the Curricula of the programme
	<b>3</b>	Associated Institution: Univ. Trieste	€ 16,243.00	Max 6 months optional	Research program in line with the Curricula of the programme
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	<b>0</b>	-	-	-	Research program in line with the Curricula of the programme

**Competition procedure and test schedule**

**Evaluation of qualifications, written examination and oral examination.**

For the evaluation of applicants’ attitude to scientific research and their basic ability to follow the course program, the Selection Committee can attribute up to 100 points to each applicant:

- max 30 points for the evaluation of the Graduation Mark or average score of the exams (see details below);
- max 35 points for the written examination;
- max 35 point for the oral examination.

Applicant is admitted to the written examination if his/her titles receive at least 21 points for the evaluation of the Graduation Mark (minimum mark to be admitted to the selection process is: 95/110) or the average score of the exams regarding academic programmes needed for admission to PhD programme (minimum average score 25/30). No other titles will be evaluated.

To be admitted to the oral examination the minimum score of the written examination is 14. Applicants obtain the eligibility for the PhD programme with an evaluation of at least 49 points in the examinations (written + oral). Only for eligible applicants, the points attained in both examinations will be added to the points of the titles.

Enrolment in the PhD programme for winner applicants with not yet obtained degree will be possible only if the degree mark obtained is equal or greater than 95/110 (see art. 3 paragraph 2 of the Call).

Please note that in case of impossibility to carry out in-class activities due to a situation of public health emergency, the Commission will conduct oral examinations remotely, to which consequently 70 points will be attributed. In this latter case, candidates will receive a communication at least ten days before the public competition will take place, exception made for emergency interventions that can be adopted at a later date.

**DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE WRITTEN EXAMINATION: within July 5, 2023.**

**DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: on July 18, 2023.**

**DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023.**

<b>Foreign language that can be used for examinations</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	<p>Only the graduation mark will be assessed. No other titles will be evaluated. In the event that the applicant certifies or self-certifies more degrees allowing the admission to the PhD programme, the Selection Committee will take into account only one degree grade, choosing where possible the highest one.</p> <p>Graduation mark:</p> <p>from 95 to 99  from 100 to 101  from 102 to 104  105  106  107  108  109  110 and 110 cum laude</p> <p>For applicants with not yet obtained degree only the average of the exams regarding the academic title needed to access to the PhD programme will be evaluated:</p> <p>from 25 to 25,99  from 26 to 26,99  from 27 to 27,99  from 28 to 28,99  from 29 to 29,99</p>	<p>21 points  23 points  24 points  25 points  26 points  27 points  28 points  29 points  30 points</p> <p>21 points  24 points  26 points  28 points  29 points</p>



**TABLE 2 – PhD Programme in LAW AND INNOVATION IN THE EUROPEAN LEGAL SPACE**

	<i>30 and 30 cum laude</i>	<i>30 points</i>
<b>Written examination</b>	<p>In the written test, the Selection Committee will identify three topics for each of the following scientific domains (SSD): IUS/01 Private Law, IUS/02 Comparative Private Law, IUS/03 Agrarian Law, IUS/06 Maritime Law, IUS/10 Administrative Law, IUS/17 Criminal Law, IUS/18 Roman Law, IUS/21 Comparative Public Law.</p> <p>For each triplet of topics referred to the mentioned SSD a draw will be made, in such a way as to identify one topic for each SSD. Each applicant must carry out the subject of the SSD specified in the application form.</p> <p>The written tests of the applicants will be evaluated according to the following criteria: knowledge of the topic; critical presentation skills; suitable use of legal language.</p>	
	<b>Date</b>	<b>July 17, 2023</b>
	<b>Time</b>	<b>9.30 AM</b>
	<b>Place</b>	University of Udine, Department of Legal Science (DISG), via Treppo 18, 33100 Udine, ITALY
	Applicants must exhibit a valid identification document for admission to the written test.	
<b>Oral examination</b>	<p>The oral examination could be carried out in Italian or in English. It will consist of a discussion about general topics referred to the following scientific IUS/01 Private Law, IUS/02 Comparative Private Law, IUS/03 Agrarian Law, IUS/06 Maritime Law, IUS/10 Administrative Law, IUS/17 Criminal Law, IUS/18 Roman Law, IUS/21 Comparative Public Law</p> <p>The Selection Committee will ask the applicant detailed questions related to the SSD indicated in the application form.</p> <p>The oral examination will be evaluated according to the following criteria: degree of knowledge of the topics; critical presentation skills; suitable use of legal language.</p> <p>The oral examination will also assess the knowledge of English language.</p>	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 19, 2023</b>
	<b>Time</b>	<b>9.15 AM</b>
	<b>Place</b>	University of Udine, Department of Legal Science (DISG), via Treppo 18, 33100 Udine, ITALY
	<p>Based on the number of applicants, the oral examination may take place in more than one day.</p> <p>Applicants must exhibit a valid identification document for admission to the oral examination.</p>	





**TABLE 3 – PhD Programme in COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

<b>THE PhD PROGRAMME</b>	
<b>Administrative Location</b>	University of Udine - Department of Mathematics, Computer Science and Physics (DMIF) – via delle Scienze 206, 33100 Udine, Italy (+39 0432 558400).
<b>Associated Location</b>	Fondazione Bruno Kessler – 77 via Santa Croce, 38122 Trento (TN), Italy
<b>Location for Training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter’s location (if the financial supporter is an external institution).
<b>Coordinator</b>	Federico Fontana – University of Udine (coordinatore.iai@liste.uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<ul style="list-style-type: none"> <li>- Acoustic scene analysis and Machine listening</li> <li>- Algorithms</li> <li>- Artificial intelligence in agrifood</li> <li>- Automatic planning and scheduling</li> <li>- Autonomous systems</li> <li>- Blockchain and Digital ledger technologies</li> <li>- Computational biology and Bioinformatics</li> <li>- Computational intelligence and Optimization</li> <li>- Computer vision</li> <li>- Crowdsourcing and Human-in-the-loop AI</li> <li>- Cyber-security</li> <li>- Data science and Big data analytics</li> <li>- Digital Humanities</li> <li>- 3D digitalization with Artificial intelligence</li> <li>- Distributed systems: models and applications</li> <li>- Formal methods and Automatic verification</li> <li>- Human-Computer interaction, Auditory-tactile interfaces</li> <li>- Knowledge representation and Automatic reasoning</li> <li>- Information retrieval</li> <li>- Internet of things: platforms and technologies</li> <li>- Logics in computer science</li> <li>- Machine learning and Deep learning</li> <li>- Medical informatics, Tele-medicine and e-Health</li> <li>- Methodologies, languages and techniques for problem solving in artificial intelligence</li> <li>- Natural language processing</li> <li>- Predictive monitoring, diagnostics and maintenance</li> <li>- Social systems and Recommendation systems</li> <li>- Software engineering</li> <li>- Virtual reality, Serious games.</li> </ul>
<b>Research programs</b>	Decided by the Teaching Board within the PhD programme Research topics.
<b>Programme website</b>	<a href="https://www.uniud.it/it/ricerca/lavorare-nella-ricerca/dottorato-ricerca/inostoricorsi/area-physical-science-and-engineering/informatica-e-intelligenza-artificiale/il-dottorato">https://www.uniud.it/it/ricerca/lavorare-nella-ricerca/dottorato-ricerca/inostoricorsi/area-physical-science-and-engineering/informatica-e-intelligenza-artificiale/il-dottorato</a> <a href="https://www.dmif.uniud.it/dottorato/iai/">https://www.dmif.uniud.it/dottorato/iai/</a> <a href="https://phd.fbk.eu/https://phd.fbk.eu/">https://phd.fbk.eu/https://phd.fbk.eu/</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and Decree DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

<b>DOCUMENTS AND TITLES TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents (Art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Certification issued by the University or, if the Candidate is a European Union citizen (refer to art. 5 paragraph 5 of the Call), self-certification of the academic title (already awarded, or to be issued by October 31, 2023) needed for admission to the PhD programme, with candidate’s grade and highest possible grade;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union: copy of a valid passport, comprehensive of the pages containing the holder’s photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. Research project, dated and signed, referred to the aforementioned research topics and to the scholarship research programs specified in this Table, with specific reference on the</li> </ol>



**TABLE 3 – PhD Programme in COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

	Teaching Board skills described in <a href="https://www.dmif.uniud.it/dottorato/iai/collegio-docenti/">https://www.dmif.uniud.it/dottorato/iai/collegio-docenti/</a> (between 5.000 and 10.000 characters, spaces included, in English language).
<b>Optionally documents that will be evaluated if presented (Art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Publications (max 3);</li> <li>2. Recommendation letters (max 2) written by university professors, scientific researchers or other experts in the specific research topics (art. 6 of the Call);</li> <li>3. Certification issued by the University or, if the Candidate is a European Union citizen (refer to art. 5 paragraph 5 of the Call), self-certification of the exams (a list with: grade for each exam, average grade, highest possible grade) passed during the Laurea Specialistica/Magistrale programmes or the Italian programmes ante D.M. 509/99 or during the foreign academic master programmes;</li> <li>4. Certification issued by the University or, if the Candidate is a European Union citizen (refer to art. 5 paragraph 5 of the Call), self-certification of the academic title and the exams (a list with: grade for each exam, average grade, highest possible grade) passed during the Italian Laurea Triennale or equivalent foreign academic title (bachelor);</li> <li>5. Abstract in Italian or English language (between 15.000 and 25.000 characters, spaces included) of the master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme, signed by the thesis Supervisor or self-certified. The abstract must be submitted also by Applicants who are not graduated on the expiration date of this Call.</li> </ol>
<b>All titles must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

**SELECTION COMMITTEE**

<b>Appointed Members</b>	Alessandro Cimatti – Head of Research unit – Bruno Kessler Foundation Niki Martinel – Associate Professor – University of Udine Riccardo Spizzo – Head of Medical unit – Centro di Riferimento Oncologico – Aviano (PN) Andrea Brunello – Assistant Professor – University of Udine Fabio Buttussi – Assistant Professor – University of Udine Eddy Maddalena – Assistant Professor – University of Udine
<b>Alternate Members</b>	Alberto Policriti – Full professor – University of Udine Angelo Susi – Head of Research unit – Bruno Kessler Foundation Federico Fontana – Associate Professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

**Positions available: 12**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 10</b>	5	University of Udine	€ 16,243.00	max 6 months optional*	In line with the research topics of the PhD programme
	3	Associated Institution: Fondazione Bruno Kessler	€ 16,243.00	max 12 months optional	<ul style="list-style-type: none"> <li>- Reconfigurable and trustworthy pandemic simulation</li> <li>- Reverse Engineering via Abstraction</li> <li>- Epistemic Runtime Verification</li> <li>- Condition monitoring and predictive maintenance of complex industrial systems: Model-based reasoning meets Data Science</li> <li>- Planning and scheduling with time and resource constraints for flexible manufacturing</li> <li>- AI-based multimodal geospatial data processing for large-scale scene understanding</li> <li>- Pareto-based optimization methods to support one-click deployments of EdgeAI application flows</li> </ul>
	1	External Institution: Centro di Riferimento Oncologico - Aviano (PN)	€ 16.243,00	max 6 months optional	Artificial intelligence and big data analysis in cancer research



**TABLE 3 – PhD Programme in COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE**

	<b>1</b>	Università di Udine – Progetto PSA - HERES	€ 16.243,00	max 12 months optional	Artificial Intelligence and Historical Documents: Character Recognition, Style Classification, Manuscript Dating
<b>Positions WITHOUT SCHOLARSHIP: 2</b>	<b>2</b>	-	-	max 6 months optional	In line with the research topics of the PhD programme

\* Aalborg University Copenhagen, Copenhagen (Denmark), provides one Nordforsk scholarship amounting to € 23014,92 (gross amount) to fund an additional 12-month mobility research referred to "Nordic SMC – Nordic Sound and Music Computing Network" project on the topic "Algorithms for audio-tactile rendering in the Internet of Things" at the Multisensory Experience Lab in that University.  
\* Scholarships funded by External Institutions and by associated locations can be assigned on condition of the approval of the agreement that governs the funding or the issuing of the decree granting the funds (art. 14 paragraph 7).

<b>Competition procedure and schedule</b>		
<p>Qualifications evaluation and oral examination. Evaluation of titles and oral examinations. For the evaluation of applicants' attitude for scientific research and their basic skills before the course program, the Selection Committee can attribute up to 100 points to each applicant: at most 30 points to the titles and at most 70 points to the oral examination. The applicant is admitted to the oral examination if he/she scores at least 18 points for the titles. The oral examination is passed by scoring at least 49 points. The applicant is eligible for the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within June 30, 2023.</b> <b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023.</b></p>		
<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation of the titles</b>	Curriculum vitae et studiorum, academic title, exams and master thesis (or its abstract)	Max 18 points
	Research project, scientific publications, Applicant's motivation letter and Referees' recommendation letters	Max 12 points
<b>Oral examination</b>	Starting score bonus	At most 2/3 of the total score obtained from the evaluation of the titles
	Interview about titles, previous career and research project also aimed at understanding the Applicant's knowledge about fundamental topics in computer science and artificial intelligence, as well as his or her full eligibility to receive, if preferred, a scholarship funded by external institutions. Reading and understanding a short scientific text in English.	Max 50 points
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 10, 2023</b>
	<b>Time</b>	<b>9:30 AM</b>
	<b>Place</b>	Department of Mathematics, Computer Science and Physics, (DMIF) "Sala Riunioni" – via delle Scienze 206, 33100 Udine <a href="https://www.dmif.uniud.it/il-dipartimento/sedi/">https://www.dmif.uniud.it/il-dipartimento/sedi/</a>
	The oral examination may be organized across more than one day. Interviews online are allowed upon motivated request and within the Call provisions (art. 8 p.4 of the Call). Applicants must exhibit a valid personal identification document for admission to the oral examination.	



**TABLE 4 – PhD Programme INDUSTRIAL AND INFORMATION ENGINEERING**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Polytechnic Department of Engineering and Architecture (DPIA) - via delle Scienze 206, 33100 Udine, ITALY (tel. +39 0432 558253)
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, depending on the scholarship (see art. 11 of the Call) and/or on the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. David Esseni (david.esseni@uniud.it)
<b>Programme duration</b>	3 years
<b>Curricula</b>	<ol style="list-style-type: none"> <li>1. New management paradigms and fabrication technologies for competitive enterprises with low environmental impact;</li> <li>2. Information and communication technology for the inclusive society;</li> <li>3. Design of innovative thermo-electro-mechanical systems and development of advanced methods for the assessment of structural damage and reliability for energy saving;</li> <li>4. Mechanical technologies and electronic devices for domotics, medical diagnostic and safety.</li> </ol>
<b>Research topics</b>	<p>- <i>Curriculum 1 - New management paradigms and fabrication technologies for competitive enterprises with low environmental impact</i></p> <ol style="list-style-type: none"> <li>1. Lean management, agile project management, operations management, production planning and control, supply chain management, purchasing and supplier management, innovation management, new product development, global manufacturing, complexity management, performance measurement systems;</li> <li>2. System and machinery efficiency for industrial production;</li> <li>3. Cognitive features of products development in view of CAD-PLM technologies;</li> <li>4. Characteristics and applicability of emerging prototyping methodologies (augmented reality, functional mock-up, interaction design, etc.);</li> <li>5. Smart logistics: computation models and algorithms;</li> <li>6. New technologies for the manufacturing of innovative materials;</li> <li>7. Systems for monitoring and control of machine tools;</li> <li>8. Methodologies for the design of automatic systems with a high energy and production efficiency. Approaches to system and product innovation;</li> <li>9. Robotic systems for the industrial sustainability</li> <li>10. Robotic systems for production and energy efficiency</li> </ol> <p>- <i>Curriculum 2 - Information and communication technology for the inclusive society</i></p> <ol style="list-style-type: none"> <li>1. Nano-electronic devices (MOSFETs, Steep Slope, etc.) for energy efficient and high performance electronics. Non volatile Memories for massive 3D integration (Flash, charge trap);</li> <li>2. Advanced electron devices based on innovative materials and architectures in the Beyond CMOS and More than Moore domains: graphene, 2D crystals, III-V compound semiconductor devices;</li> <li>3. Semi-classical (BTE) and quantum mechanical (NEGF) simulation of nanoelectronics devices;</li> <li>4. Integrated circuit design for energy efficient communications, energy conversion and management;</li> <li>5. Innovative communication paradigms and systems: systems with multiple antennae, distributed communication systems, HW and SW architectures for telecommunications;</li> <li>6. Multimedia signals processing and analysis: video and image encoding, video streaming based on peer-to-peer networks, joint source/channel encoding, compressive sensing;</li> <li>7. Test and development of metaheuristic algorithms for combinatorial problems;</li> <li>8. Pervasive computing, cloud computing, overlay networking, distributed computing in miscellaneous networks of computers;</li> <li>9. Artificial vision system, virtual sound, machine learning;</li> <li>10. Wireless communication systems and networks, signal processing for communication, physical substrate algorithms, transmission system algorithms.</li> <li>11. Data and Information Fusion.</li> </ol> <p><i>Curriculum 3 – Design of innovative thermo-electro-mechanical systems and development of advanced methods for the assessment of structural damage and reliability for energy saving</i></p> <ol style="list-style-type: none"> <li>1. Energy harvesting systems for self powered, smart, distributed sensors;</li> <li>2. Electro-mechanical devices for innovative production and storage energy systems;</li> <li>3. New paradigms, systems, technologies for surface and air transportation vehicles with low energy consumption;</li> <li>4. Integrated power electronics for industrial plants and machinery;</li> </ol>



**TABLE 4 – PhD Programme INDUSTRIAL AND INFORMATION ENGINEERING**

	<p>5. Electric drivers and converters for distributed electric generation and co-generation systems (photovoltaic, wind, etc.);</p> <p>6. On board electronics: terrestrial and satellite localisation and navigation systems; communication networks and systems;</p> <p>7. Green mechatronics: mechatronics for energy saving;</p> <p>8. Design methodologies for materials handling systems characterised by low environmental impact;</p> <p>9. Holistic design of lightweight structures for low emissions and low energy consumption vehicles;</p> <p>10. Design of energy efficiency industrial plants;</p> <p>11. Stress and strain analysis of materials and structures subjected to time-dependant deformation processes;</p> <p>12. Methods for structural integrity design and verification;</p> <p>13. Developments of damage-tolerant design methods;</p> <p>14. Multi-physics analyses for the evaluation of the stress/strain state in materials and engineering structures;</p> <p>15. Micromechanical damaging processes in materials;</p> <p>16. Behaviour characterisation and modelling of materials processed by advanced manufacturing techniques;</p> <p>17. Modeling and control of mechanical and mechatronic systems;</p> <p>18. Modeling and control of vibrations in mechanical systems;</p> <p>19. Numerical modeling for the simulation of electromagnetic devices and fields.</p> <p><i>Curriculum 4 – Mechanical technologies and electronic devices for domotics, medical diagnostic and safety</i></p> <p>1. Smart systems and technologies for home, working and leisure environments</p> <p>2. Systems for safety at work, on the road, at home; systems for the management of home assistance activities;</p> <p>3. Sensors, devices and instrumentation for medical care and tests and for the support of the elderly; systems for the planning and support of hospital activities;</p> <p>4. Innovative paradigms for the interaction of domotics, surgery and security devices;</p> <p>5. Passive and active control of noise and vibration for industrial, home and surface-air transport vehicles applications;</p> <p>6. Devices and instrumentation for the detection of biomedical parameters: nanosensors</p> <p>7. Robots for elderly and disable people assistance;</p> <p>8. Robots for surgery applications;</p> <p>9. Large scale tri-dimensional image modelling, automatic synthesis of binocular video flows from monocular sources;</p> <p>10. Geophysics; seismic data acquisition, vulcanology, geostatics, seismic risk evaluation.</p>
<b>Research programs</b>	Research programs are selected by the Teaching Board among the topics offered by the curricula.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/industrial-and-information-engineering/ph-d-programme/industrial-and-information-engineering?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/industrial-and-information-engineering/ph-d-programme/industrial-and-information-engineering?set_language=en</a> <a href="https://phd.diegm.uniud.it/iie-phd/">https://phd.diegm.uniud.it/iie-phd/</a>

**ADMISSION REQUIREMENTS**

<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea specialistica/magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

**DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION**

<b>Compulsory documents</b> (art. 5 of the Call)	<p>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmess or during the Italian programmes before D.M. 509/99 or during the foreign academic programmes;</p> <p>2. Curriculum vitae et studiorum, dated and signed;</p> <p>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry).</p>
<b>Optional documents</b> (art. 5 of the Call)	<p>1. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call can submit an extended abstract in place of the complete thesis, in Italian or English language, signed by themselves and by their thesis Supervisor (approximate limit: 25.000 characters, including spaces);</p>



**TABLE 4 – PhD Programme INDUSTRIAL AND INFORMATION ENGINEERING**

	<p>2. Motivational letter by which the applicant explains the reasons for admission to the PhD programme, dated and signed (approximate limit: 2.500 characters, including spaces);</p> <p>3. Publications (max 2);</p> <p>4. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 6 of the Call).</p>
<p><b>All titles must be presented exclusively in PDF format, dated and signed by the candidate.</b></p>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	<p>Roberto Rinaldo – Full Professor – University of Udine</p> <p>Enrico Salvati – Associate Professor – University of Udine</p> <p>Giovanni Totis – Adjunct Professor – University of Udine</p>
<b>Substitute members</b>	<p>Stefano Filippi – Full Professor – University of Udine</p> <p>Paolo Gardonio – Full Professor – University of Udine</p> <p>David Esseni – Full Professor – University of Udine</p>

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

<b>Positions available: 6</b>					
<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 5</b>	5	Univ. Udine	€ 16,243.00	max 6 months optional	Research program in line with research topics.
<b>Positions WITHOUT SCHOLARSHIP: 1</b>	1	-	-	max 6 months optional	Research program in line with research topics.

**Competition procedure and test schedule**

<p>Evaluation of qualifications and oral examination.</p> <p>For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 16 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023.</b></p> <p><b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023.</b></p>		
<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	15
	Scientific publications	5
	Thesis/Abstract	2
	Letters of reference	4
	Motivational letter for admission to the PhD programme	4
<b>Oral examination</b>	<p>The oral examination consists of an individual interview of about 15 minutes aiming to assess the applicant flair to undertake a research doctorate and to carry out the research tasks in the areas of interest for the doctorate.</p> <p>The interview will be assessed considering the following criteria:</p> <p>a) technical and scientific competence in the topics of the doctorate;</p> <p>b) knowledge of the state of the art for the doctorate curricula;</p> <p>c) mastery of English language.</p>	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 18, 2023</b>
	<b>Time</b>	<b>09:30 AM</b>
	<b>How to conduct the examination</b>	The oral examination will be held online.
	Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 5 – PhD Programme in MOLECULAR MEDICINE**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Medical Area (DAME) –via Colugna 50, 33100 Udine, ITALY (tel. +39 0432 494301).
<b>Associated location</b>	C.R.O. - Centro di Riferimento Oncologico (National Cancer Institute Aviano) – via Franco Gallini 2, 33081 Aviano (PN) ITALY.
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Alessandra Corazza (alessandra.corazza@uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<ul style="list-style-type: none"> <li>– <i>Cancer: from molecular oncology to innovative therapies;</i></li> <li>– <i>Immunity and inflammation;</i></li> <li>– <i>Molecular mechanisms of cellular senescence and therapeutic perspectives;</i></li> <li>– <i>Molecular pathogenesis of protein misfolding diseases</i></li> </ul>
<b>Research programs</b>	<p><b>1. The mitochondrial F-ATP synthase complex and its transformation into the permeability transition pore</b> (supervisor Prof. G. Lippe DAME-UniUd) Mitochondria are key to both cellular life and death. One of the most studied events that may trigger cell death is the so called “permeability transition” due to the opening of a non-selective pore in the inner membrane, defined as the permeability transition pore (PTP). The number of pathophysiological conditions in which a role of PTP has been documented is extremely large, including ischemia-reperfusion injury of the heart and of the brain, muscular dystrophies, neurodegenerative diseases and vascular pathology, which are among the most common age associated diseases. Recent evidence indicates that F-ATP synthase, the enzyme complex responsible for the aerobic production of ATP, mediates PTP formation under stress conditions. The project intends to clarify through which molecular mechanisms ATP synthase is turned from an-energy-conserving into an energy-dissipating system and further define its role in pathophysiology. As PTP opening is favored by the binding of the matrix protein Cyclophilin D (CyPD) to F-ATP synthase, a main goal is to define how this interaction regulates PTP opening, using various biochemical and biophysical approaches with purified and/or recombinant proteins as well by modulating the expression of CyPD and its variants in cellular models to check their effects on PTP function and cellular death.</p> <p><b>2. Mitochondrial transplantation in advanced heart failure; optimization and mechanistic insights.</b> (supervisor Prof. A. Beltrami DAME-UniUd) Autologous mitochondria transplantation is an emerging strategy tested in preclinical models of ischemia/reperfusion injury that has not yet been studied in advanced heart failure. This promising therapy may be combined with ex vivo perfusion to restore cardiac function in marginal graft, permitting to enlarge the donor pool. Many concerns remain about best source of mitochondrial procurement, preservation, survival inside the blood and cell internalization. We aim at investigating novel strategies of mitochondrial transplantation, including isolation of these organelles from allogeneic cells, cryopreservation in liquid nitrogen, and extracellular-vesicle mediated transplantation of mitochondria to preserve their function over time. These processes will be firstly tested in vitro, secondly in a rat animal model with end-stage heart failure and, ultimately, in a human model, using hearts explanted from patients suffering from ischemic heart disease or dilated cardiomyopathy, during the transplantation procedure, and employing an ex vivo perfusion system.</p> <p><b>3. Role of epigenetic re-organizations in the spatial control of the genome</b> (supervisor Prof. C. Brancolini DAME-UniUd) Control of gene expression plays a central role in all cellular responses, and its alterations underlie many diseases. During evolution, distal elements known as typical enhancers (TEs) have assumed key roles in controlling important cellular decisions such as stemness and differentiation. Complex structures of TEs known as super-enhancers (SEs) coordinate the expression of many genes through specific spatial organizations of chromatin known as TADs (Topologically Associating Domains). This research project aims to reconstruct maps of TEs and SEs using the ChIP-seq technique for epigenetic markers such as H3K27ac and H3K4me1. The models will be those of tumor transformation of cells (comparing normal and transformed cells) and cell senescence. Subsequently, the TADs will be defined using the Hi-C technique. This will allow to create a spatial map of the SEs and better define the genes under their influence. Finally, genome editing techniques based on CRISPR/Cas9 technology will be used to selectively knock down or activate specific SEs to assess their</p>



TABLE 5 – PhD Programme in MOLECULAR MEDICINE

	<p>contribution to the cell's proliferative capacity or cellular senescence. The goal is to understand how the spatial organization of chromatin coordinates gene expression and specific cellular responses associated with cancer.</p> <p>4. <b>Liquid biopsy in precision medicine of breast and brain tumors</b> (supervisor Prof. Daniela Cesselli DAME- UNIUD) Precision medicine implies the choice of therapeutic and clinical approaches tailored to both tumor and patient features. Spatial and temporal heterogeneity, often determined by tumor intrinsic properties (e.g., mutational landscape and tumor microenvironment) and conditioned by therapies and patient status (e.g., immune response), can be responsible for tumor spread and drug resistance. For this reason, a real-time monitoring of modifications in these features could allow a rapid detection of changes that can be responsible for drug resistance and tumor progression, possibly suggesting more effective clinical solutions resulting in increased clinical benefit, reduced toxicity and overcoming therapeutic resistance. In this project we will focus on liquid biopsy as a tool to real time monitoring tumor changes in two different clinical settings: breast cancer and glioma. Specifically, we will monitor changes in: 1. Number and genetic and transcriptional profile of circulating tumor cells (CTC) sorted as single cells based on the mesenchymal status; 2. circulating nucleic acids by either NGS or ddPCR; 3. Extracellular vesicles number, physical properties and both lipid, protein and small RNA content; 4. immune response; 5. Platelet features. These data, through artificial intelligence approaches, will be integrated with histopathological information and other clinical data to develop algorithms capable of supporting clinical decisions. The student will work on already collected samples.</p> <p>5. <b>Tumor microenvironment and cancer cells: consequences of interactions in disease progression and drug resistance.</b> (supervisor dr. P. Spessotto CRO Aviano National Cancer Institute) This project focuses on studying the relationships between tumor cells and the microenvironment, in particular with components of the extracellular matrix, stroma, and vascular cells, both in the initial stages of engraftment and in the more advanced stages (extravasation, intravasation, and formation of the metastatic niche) and during the response to treatments (vascular permeability, immunosuppression, etc.), in order to identify new molecular mechanisms underlying tumor growth, metastasis, and drug resistance. To carry out this project, we have already developed and will use complex preclinical models such as GEMM, xenografts, and PDX. We will use functional genomics and gene sequencing approaches in conjunction with in vitro and in vivo studies in the most appropriate cell models. The project could focus on female cancers (breast and ovarian), colon cancers, and/or head and neck cancers. The ultimate goal is to identify novel diagnostic, prognostic and/or predictive biomarkers and, most importantly, novel therapeutic targets and subsequently validate them in preclinical models.</p> <p>6. <b>The role of gender pharmacogenetics in the personalization of drug treatment of solid tumors</b> (supervisor dr. E. Cecchin CRO Aviano National Cancer Institute) The use of pharmacogenetic guidelines in tailoring treatments has shown the potential to reduce interindividual variability in drug response by enabling genotype-based dosing and drug selection. However, other important factors, such as patient gender, may interact strongly with pharmacogenetics in determining the individual toxicity and efficacy profile and influencing plasma drug exposure at standard doses. Recent studies have shown that pharmacogenetic variants may have different predictive value across sexes. Of particular interest is the case of cancer treatment, where a significant increase in toxicity has been described in female patients, with a more pronounced effect of specific genetic polymorphisms of phase 1 (DPYD, CYP3A4/5) and phase 2 (UGT1A1) metabolic enzymes. This PhD project will analyze in large cohorts of cancer patients the sex-specific effect of pharmacogenomics on treatment outcome and plasma drug levels.</p> <p>7. <b>Epigenomics of epithelioid sarcoma</b> (supervisor dr. R. Maestro CRO Aviano National Cancer Institute) Sarcomas are a group of rare and aggressive tumors that develop in mesenchymal tissues. Among these, epithelioid sarcoma is a very rare variant that affects young individuals. Little is known about its biology and current therapeutic options are largely ineffective. In an attempt to shed light on the molecular determinants of this tumor and, ideally, identify novel therapeutic vulnerabilities, we performed comprehensive multi-omics profiling. This research revealed deregulation in complex molecular circuitries involving DNA methylation, chromatin remodeling and microRNAs. Using tumor samples, gain/loss of function in vitro models, and drug screening we will dissect the biological and clinical relevance of these molecular circuitries and evaluate their potential role as therapeutic targets.</p>
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**TABLE 5 – PhD Programme in MOLECULAR MEDICINE**

	<p>8. <b>Role of genetic profiling by next-generation sequencing in the diagnosis and treatment of glioma patients</b> (supervisor Prof. Daniela Cesselli DAME- UNIUD)</p> <p>High-grade gliomas, the most frequent malignant primitive tumors of the brain, are associated with disproportionately high mortality due to their infiltrative nature, the rapid development of drug resistance and very few therapeutic options available. The introduction of clinically relevant precision medicine options in gliomas is therefore needed but challenged by several factors, such as the blood–brain/tumor barrier, the brain/tumor microenvironment interactions, the spatial and temporal changes in the genomic alterations and gene expression patterns of the tumor and the lack of most targetable genetic alternations. In FVG region it has been created a multi-institutional task force aimed at investigating through a multidisciplinary approach including, including advanced next-generation sequencing techniques, patient-based in vitro models and machine learning approaches, several aspects of gliomas including drug sensitivity and resistance. Aim of the project will be to design and conduct clinical trials aimed at investigating feasibility and, possibly, clinical efficacy of PM approaches based on genomic and patient-based in vitro studies.</p> <p>Some research programs may be financed later, within the time limits set in the Call.</p>
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/biomedical-sciences-and-biotechnology/ph-d-programme/biomedical-science-and-biotechnology?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/biomedical-sciences-and-biotechnology/ph-d-programme/biomedical-science-and-biotechnology?set_language=en</a>

**ADMISSION REQUIREMENTS**

<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

**DOCUMENTS AND TITLES TO BE ATTACHED TO THE APPLICATION FOR ADMISSION**

<b>Compulsory documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes or during the Italian programmes before D.M. 509/99 or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed, with emphasis on pre-doctoral experiences and on thesis activity (description of techniques acquired, personal contribution, etc.);</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry).</li> </ol>
<b>Optional documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call can submit an extended abstract in place of the complete thesis, in Italian or English language, signed by themselves and by their thesis Supervisor (approximate limit: 25.000 characters, spaces included);</li> <li>2. Motivation letter by which the applicant explains the reasons for admission to the PhD programme, dated and signed (approximate limit: 1.000 characters, spaces included);</li> <li>3. Publications (max 2);</li> <li>4. Letters of reference (max 2) written by university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>

**SELECTION COMMITTEE**

<b>Appointed Members</b>	Claudio Brancolini – Full professor – University of Udine Giovanna Lippe – Associate Professor – University of Udine Antonio Paolo Beltrami – Associate professor – University of Udine
<b>Substitute Members</b>	Alessandra Corazza – Associate Professor – University of Udine Daniela Cesselli – Associate Professor – University of Udine Luca Quartuccio – Associate Professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**



**TABLE 5 – PhD Programme in MOLECULAR MEDICINE**

Positions available: 8					
Detailed description	N.	Funding	Annual gross amount	Period abroad	Research program
Positions WITH SCHOLARSHIP: 7	4	Univ.Udine	€ 16,243.00	max 6 months optional	1, 2, 3, 4
	3	Associated Institution: CRO-Aviano*	€ 16,243.00	max 6 months optional	5, 6, 7
Positions WITHOUT SCHOLARSHIP: 1	1	-	-	max 6 months optional	8

\* Scholarships funded by External Institutions and by associated locations can be assigned on condition of the approval of the agreement that governs the funding or the issuing of the decree granting the funds (art. 14 paragraph 7).

Competition procedure and test schedule		
<p>Evaluation of qualifications and oral examination.</p> <p>For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. Applicant is admitted to the oral examination if his/her titles receive at least 15 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 3, 2023</b></p> <p><b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023</b></p>		
Foreign language that can be used for examination	Italian or English	
Evaluation Criteria of qualifications <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae	6
	Scientific publications	2
	Thesis/Abstract	4
	Letters of reference	2
	Motivation letter for admission to the PhD programme	2
	Grades reported in the exams taken in the undergraduate programmes	8
	Masters, additional training courses, experiences abroad, etc. etc	6
Oral examination	Part of the oral examination will be in English.	
Calendar of the oral examination	Date	July 13, 2023
	Time	09:30 AM
	Place	Department of Medical Area (DAME), Seminar Room – Piazzale Kolbe 4, 33100 Udine ITALY
Based on the number of applicants, the oral examination may take more than one day. Applicants must exhibit a valid ID for admission to the oral examination.		



**TABLE 6 – PhD Programme in FOOD SCIENCE**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine - Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) – via delle Scienze n. 206, 33100 Udine, ITALY (tel. +39 0432 558600)
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at the administrative programme location, other locations of the University of Udine or financial supporter’s location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Walter Baratta (walter.baratta@uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<ul style="list-style-type: none"> <li>– Chemical, physical, microbiological, nutritional and sensory aspects of foods</li> <li>– Innovative technological approaches to ensure safety, improve quality and extend the shelf-life of foods</li> <li>– Strategies to improve the nutritional and technological functions of ingredients and foods</li> <li>– Development of innovative foods and processes</li> <li>– Relationship between the structure of foods and their sensorial, nutritional and technological performances</li> <li>– Relationship between diet and health</li> <li>– Monitoring, prevention and reduction of biological, chemical and physical contamination</li> <li>– Optimization and study of microbial fermentations for food and beverage production</li> <li>– Relationships/interactions between food microbiota and human microbiota/microbiome</li> <li>– Genetic and physiological characterization of microbial strains relevant for food</li> <li>– Development and validation of innovative methods and tools (analytical devices, sensors and green biosensors) to define food quality, traceability and safety</li> <li>– Development of rapid methods for in situ analysis and monitoring of biological processes in food</li> <li>– Development of eco-sustainable packaging</li> <li>– Improving sustainability in the food sector</li> <li>– Use of waste from the agri-food chain for the production of food / ingredients / bioactive molecules / packaging materials</li> <li>– Reduction of the environmental impact, of the emission of polluting substances and energy saving in the food sector.</li> </ul>
<b>Research programs</b>	<ol style="list-style-type: none"> <li>1. Development of novel technologies to ensure safety, improve quality and extend the shelf-life of foods;</li> <li>2. Development of technological strategies to improve the bioaccessibility of nutrients and bioactive compounds;</li> <li>3. Development of innovative “green” packaging for food safety</li> <li>4. Innovative methods for diagnostics, for the study of biodiversity and of the particular technological and pro/postbiotic attitudes of microorganisms of food and health interest;</li> <li>5. Strategies for prevention and reduction of microbial contamination;</li> <li>6. Development of innovative methods and tools for food safety evaluation and/or processing systems suitable to guarantee health protection, food traceability, as well as monitor environmental, processing and packaging contaminants (biotic and abiotic) in foods;</li> <li>7. Development and production, also by fermentative processes, of bioactive molecules, their transformations and impact on human health;</li> <li>8. Development of processes for the transformation of waste products into food / ingredients / bioactive molecules</li> </ol>
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-degli-alimenti/ph-d-programme/scienze-degli-alimenti?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-degli-alimenti/ph-d-programme/scienze-degli-alimenti?set_language=en</a>

**ADMISSION REQUIREMENTS**

<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

**DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION**



**TABLE 6 – PhD Programme in FOOD SCIENCE**

<b>Compulsory documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes, or during the Italian programmes before D.M. 509/99 or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. Research project, dated and signed, developed under the research programs listed in this table (approximate limit: 10.000 characters, spaces included, in English language).</li> </ol>
<b>Optional documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Master thesis ("Tesi di laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call can submit an extended abstract in place of the complete thesis, in Italian or English language signed by themselves and by their thesis Supervisor (approximate limit: 25.000 characters, spaces included);</li> <li>2. Publications (max 2);</li> <li>3. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>
<b>All qualifications must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	Walter Baratta – Full Professor – University of Udine Sonia Calligaris – Associate Professor – University of Udine Lucilla Iacumin – Full Professor – University of Udine
<b>Substitute members</b>	Nicoletta Pellegrini – Associate Professor – University of Udine Rosanna Toniolo – Associate Professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

<b>Positions available: 3</b>					
<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 3</b>	<b>3</b>	Univ. Udine	€ 16,243.00	max 6 months optional	In line with the research topics
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	<b>0</b>	-	-	-	-

**Competition procedure and test schedule**

<p>Evaluation of titles and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. Applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023</b> <b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023</b></p>		
<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	10
	Research project	14
	Scientific publications	2
	Thesis/Abstract	2
	Letters of reference	2
<b>Oral examination</b>	Part of the oral examination will be in English.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 20, 2023</b>
	<b>Time</b>	<b>9:00 AM</b>
	<b>Place</b>	Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) – via Sondrio 2/A, 33100 Udine
	Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 7 – PhD Programme in ENVIRONMENTAL AND ENERGY ENGINEERING SCIENCE**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine - Polytechnic Department of Engineering and Architecture (DPIA) - via delle Scienze 206, 33100 Udine, ITALY (tel. +39 0432 558253).
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Cristian Marchioli (cristian.marchioli@uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<ul style="list-style-type: none"> <li>- Energy efficiency and sustainability of machines, processes and plants;</li> <li>- Materials for energy and/or environmental applications;</li> <li>- Catalysis Science and Technology;</li> <li>- Energy transport, conversion, storage and distribution;</li> <li>- Safety engineering and emergency management;</li> <li>- Chemical technologies and processes for energy and environment;</li> <li>- Computational transport phenomena;</li> <li>- UNESCO Chair - Safety for Disaster Risk Reduction and Resilience.</li> </ul> <p>The PhD Programme cooperates with the UNESCO Chair in Intersectoral Safety for Disaster Risk Reduction and Resilience.</p>
<b>Research programs</b>	Research programs will be decided by Teaching Board of the Ph.D. programme within the research topics.
<b>Course website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/environmental-and-energy-engineering-science/ph-d-programme/environmental-and-energy-engineering-science?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/environmental-and-energy-engineering-science/ph-d-programme/environmental-and-energy-engineering-science?set_language=en</a> <a href="https://phd.diegm.uniud.it/ees-phd/">https://phd.diegm.uniud.it/ees-phd/</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea specialistica/magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

<b>DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes or during the Italian programmes before D.M. 509/99 or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. Research project, dated and signed, developed under the topics listed in this table (approximate limit 10.000 characters, spaces included, in English language).</li> </ol>
<b>Optional documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call can submit an extended abstract in place of the complete thesis, in Italian or English language, signed by themselves and by their thesis Supervisor (approximate limit 10.000 characters, spaces included);</li> <li>2. Motivational letter, dated and signed, by which the applicant explains the reasons for admission to the PhD programme (approximate limit 2.500 characters, spaces included);</li> <li>3. Publications (max 2);</li> <li>4. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>
<b>All titles must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	Sara Colussi – Associate Professor – University of Udine



**TABLE 7 – PhD Programme in ENVIRONMENTAL AND ENERGY ENGINEERING SCIENCE**

	Damiana Chinese – Associate Professor – University of Udine Alex Lanzutti – Associate Professor – University of Udine Cristian Marchioli – Associate Professor – University of Udine Andrea Melchior – Associate Professor – University of Udine
<b>Substitute members</b>	Luca Casarsa – Associate Professor – Università di Udine Daniele Zuccaccia – Associate Professor – Università di Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

**Positions available: 6**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 5</b>	5	Univ. of Udine	€ 16,243.00	max 6 months optional	In line with the research topics of the PhD programme
<b>Positions WITHOUT SCHOLARSHIP: 1</b>	1	-	-	max 6 months optional	In line with the research topics of the PhD programme

**Competition procedure and test schedule**

Evaluation of qualifications and oral examination.

For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.

**DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023.**

**DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023.**

<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum studiorum	10
	Curriculum vitae	2
	Research Project	6
	Scientific publications	2
	Thesis/Abstract	4
	Letters of reference	2
	Motivational letter for admission to the PhD programme	4
<b>Oral examination</b>	Interview based on technical, motivational and scientific discussion.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 18, 2023</b>
	<b>Time</b>	<b>09:30 AM</b>
	<b>Place</b>	Polytechnic Department of Engineering and Architecture (DPIA), Sala Riunioni Verde (Meeting room "green") DPIA – via delle scienze 206, 33100 Udine
Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination.		



**TABLE 8 – PhD programme AGRICULTURAL SCIENCES AND BIOTECHNOLOGY**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine - Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) – via delle Scienze n. 206, 33100 Udine, ITALY (tel. +39 0432 558600)
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Francesco Nazzi (francesco.nazzi@uniud.it)
<b>Programme duration</b>	3 years
<b>Curricula</b>	A. Biology and plant production; B. Biology and livestock science; C. Biology of pathogens and plant protection.
<b>Research programs</b>	<i>Curriculum A. Biology and plant production</i> A1. 1. Grafting affinity in kiwifruit: physiological and molecular studies for crop adaptation to the climate crisis (supervisor: G. Cipriani, co-supervisor: R. Falchi) A2. Improving sustainability of horticultural crops through biostimulants based on algal extracts (supervisor: L. Dalla Costa, co-supervisor: N. Tomasi) A3. Unravelling Fe and P acquisition interplays in plants to pursue a more sustainable fertilization practices of crops (supervisor: N. Tomasi)  <i>Curriculum B. Biology and livestock science</i> B1. Emerging diseases of rainbow trout: Histological and ultrastructural study to characterize the cellular profile and lesions pathogenesis (supervisor: M. Galeotti, co-supervisor: D. Volpatti) B2. Insect derived bioactive compounds as immunostimulants for finfish farmed species to enhance animal welfare and aquaculture sustainability (supervisor: B. Randazzo, co-supervisor: F. Tulli)  <i>Curriculum C. Biology of pathogens and plant protection</i> C1. Studying and exploiting the genetic and metabolic diversity of microorganisms isolated from extreme environments (supervisor: A. Di Francesco, co-supervisor: G. Firrao) C2. Investigations over epidemiological traits of grapevine yellows and development of sustainable control strategies (supervisor: M. Martini, co-supervisor: F. Pavan)
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/agricultural-sciences-and-biotechnology/ph-d-programme/agricultural-sciences-and-biotechnology?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/agricultural-sciences-and-biotechnology/ph-d-programme/agricultural-sciences-and-biotechnology?set_language=en</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea specialistica/magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the call.
<b>Knowledge of the following foreign language</b>	English

<b>DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian Laurea Specialistica/Magistrale programme or during the Italian programmes before D.M. 509/99 or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union must attach a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. Research project, dated and signed, developing the first research program selected by the applicant among the ones listed above (approximate length of the research project, in English, spaces included: 10.000 characters);</li> <li>5. A statement concerning the choice of research program(s).</li> </ol>
<b>Optional documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated by the expiration date of this call can submit an extended abstract in place of the complete thesis, in Italian or English language, signed by themselves and by their thesis Supervisor (approximate limit: 25.000 characters, spaces included);</li> <li>2. Publications (max 2);</li> <li>3. Letters of reference (max 2), from university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>



**TABLE 8 – PhD programme AGRICULTURAL SCIENCES AND BIOTECHNOLOGY**

All qualifications must be presented exclusively in PDF format, dated and signed by the candidate.

SELECTION COMMITTEE	
<b>Appointed members</b>	Guido Cipriani - Full Professor – University of Udine Luisa Dalla Costa – Assistant Professor – University of Udine Giuseppe Firrao – Full Professor - University of Udine Marco Galeotti – Full Professor - University of Udine Marta Martini – Associate Professor - University of Udine Basilio Randazzo - Assistant Professor - University of Udine Laura Zanin - Assistant Professor - University of Udine
<b>Substitute members</b>	Alessandra Di Francesco - Assistant Professor - Università di Udine Francesco Pavan - Assistant Professor - Università di Udine Nicola Tomasi - Associate Professor - Università di Udine Francesca Tulli - Associate Professor - Università di Udine Donatella Volpatti - Associate Professor - Università di Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

Positions available: 5					
Detailed description	N.	Funding	Annual gross amount	Period abroad	Research program
<b>Positions WITH SCHOLARSHIP: 5</b>	5	Univ. Udine	€ 16,243.00	max 6 months optional	A1, A2, A3, B1, B2, C1, C2 (one scholarship for each research program)
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	0	-	-	-	-

**Competition procedure and test schedule**

Evaluation of qualifications and oral examination.  
For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.  
**DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 3, 2023.**  
**DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023.**

<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	10
	Research project	10
	Scientific publications	2
	Thesis/Abstract	6
	Letters of reference	2
<b>Oral examination</b>	The oral examination is based on a discussion on the scientific titles submitted and includes an evaluation of English language knowledge.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 13, 2023</b>
	<b>Time</b>	<b>9:00 AM</b>
	<b>Place</b>	Department of Agricultural, Food, Environmental and Animal Sciences (DI4A), Cereals room – via delle Scienze n. 206, 33100 Udine, ITALY
	Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination	





**TABLE 9 – PhD Programme MATHEMATICAL AND PHYSICAL SCIENCES**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine - Department of Mathematics, Computer Science and Physics (DMIF) – via delle Scienze 206, 33100 Udine, Italy (+39 0432 558400).
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at the administrative programme location, other locations of the University of Udine or financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof.ssa Roberta Musina (roberta.musina@uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	- MATHEMATICS: Algebra and Topology; Numerical analysis; Mathematical and functional analysis; Algebraic geometry; Mathematical logic; Dynamical systems; Statistics; Operation research; Mathematics for applied economics and finance. - PHYSICS: Astrophysics; Physics education; Particle physics; Advanced detection systems; Bio- and Nanosystems simulation. More details at <a href="https://www.dmif.uniud.it/dottorato/smf/collegio-docenti/">https://www.dmif.uniud.it/dottorato/smf/collegio-docenti/</a>
<b>Research programs</b>	Decided by the Teaching Board within the PhD programme Research topics.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/mathematical-and-physical-sciences/ph-d-programme/mathematical-and-physical-sciences?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-physical-science-and-engineering/mathematical-and-physical-sciences/ph-d-programme/mathematical-and-physical-sciences?set_language=en</a> <a href="https://www.dmif.uniud.it/dottorato/smf/">https://www.dmif.uniud.it/dottorato/smf/</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and Decree DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

<b>DOCUMENTS AND TITLES TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents</b> (Art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme (with candidate's grade and highest possible grade) and certified list of the exams (with candidate's grades, average grade, highest possible grade) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes or during the Italian programmes ante D.M. 509/99 or during the foreign academic programmes;</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> </ol>
<b>Optional documents</b> (Art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call must submit an extended abstract in place of the complete thesis, in Italian or English language, signed by the thesis Supervisor (between 15.000 and 25.000 characters, spaces included).</li> <li>2. Research project, dated and signed, referred to the research topics listed in this Table, with specific reference on the Teaching Board skills described in <a href="https://www.dmif.uniud.it/dottorato/smf/collegio-docenti/">https://www.dmif.uniud.it/dottorato/smf/collegio-docenti/</a> (between 5.000 and 10.000 characters, spaces included, in English language);</li> <li>3. Motivation letter from the applicant explaining the reasons for admission to the PhD programme, dated and signed (between 1.500 and 2.500 characters, spaces included);</li> <li>4. Publications (max 3);</li> <li>5. Letters of reference (max 2) written by university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>
<b>All documents must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed Members</b>	Michela Battauz – Associate Professor – University of Udine Marina Cobal – Full Professor – University of Udine Federico Fogolari – Full Professor – University of Udine



**TABLE 9 – PhD Programme MATHEMATICAL AND PHYSICAL SCIENCES**

	Aleks Jevnikar – Associate Professor – University of Udine Alberto Marcone – Full Professor – University of Udine
<b>Alternate Members</b>	Dimitri Breda – Associate Professor – University of Udine Paolo Giannozzi – Full Professor – University of Udine Andrea Molent – Assistant Professor – Università di Udine Andrea Vacchi – Full Professor – University of Udine and INFN

**ADMISSION**

**GENERAL COMPETITION (art. 9 of the Call for Applications)**

**Positions available: 7**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 5</b>	5	Univ. Udine	€ 16,243.00	max 6 months optional	In line with the research topics of the PhD programme
	1	External Institution: INFN *	€ 16,243.00	max 6 months optional	In line with the research topics of the PhD programme
<b>Positions WITHOUT SCHOLARSHIP: 1</b>	1	-	-	max 6 months optional	In line with the research topics of the PhD programme

\* Scholarships funded by External Institutions and by associated locations can be assigned on condition of the approval of the agreement that governs the funding or the issuing of the decree granting the funds (art. 14 paragraph 7).

**Competition procedure and test schedule**

<p>Evaluation of qualifications and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills before the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 15 points. The oral examination is passed with at least 49 points. The applicant is eligible for the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023</b> <b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023</b></p>		
<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum and Scientific publications	10
	Title and average grade of exams and Thesis/Abstract	10
	Research project and Applicant's letters (Motivation letter + Letters of reference)	10
<b>Oral examination</b>	Interview about titles, previous career and research project also aimed at understanding the applicant's knowledge about fundamental topics in mathematics and/or physics, as well as his or her full eligibility to receive a scholarship funded by external institutions. Reading and understanding a short scientific text in English.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 24, 2023</b>
	<b>Time</b>	<b>9:00 AM</b>
	<b>How to conduct the examination</b>	The oral examination will be held online.
	Based on the number of applicants, the oral examination may take more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 10 – PhD Programme in CLINICAL AND TRANSLATIONAL MEDICAL SCIENCES**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Medical Area (DAME) –via Colugna 50, 33100 Udine, ITALY (tel. +39 0432 494301).
<b>Associated location</b>	
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Giuseppe Damante (giuseppe.damante@uniud.it)
<b>Programme duration</b>	3 years
<b>Curriculum</b>	-
<b>Research topics</b>	<ul style="list-style-type: none"> <li>• Eating Behavior DisordersEquity, safety, and quality of care and treatment in global health</li> <li>• Study of minor cardiovascular risk factors and their impact on renal and cardiac function and in residual risk of cardiovascular diseaseBiomarkers of acute lung and central nervous system damage (lipidomics and metabolomics)</li> <li>• Biomedical applications with stable isotopes and natural abundance of Carbon 13 and Deuterium (study of in vivo metabolism in humans and pharmacokinetic studies)</li> <li>• Molecular mechanisms underlying neurodegenerative diseases</li> <li>• Oxidative energy metabolism following marked reduction in habitual physical activity level, in young and elderly subjects</li> <li>• Microvascular and mitochondrial functions in humans following exposure to inactivity/microgravity ("bed rest").</li> <li>• Drugs of retinal diseases.</li> <li>• Analysis of neuromuscular and metabolic parameters of the lower limbs associated with motor function in the elderly population and study of the effects of exercise, with and without neuromodulation, in improving motor function</li> <li>• Causal factors, mechanisms and effects of Unfinished Nursing Care</li> <li>• Effectiveness of continuing education strategies in health care professionals</li> <li>• Tools and methods for nutritional epidemiology from a translational perspective to assess the impact of nutritional patterns on human health;</li> <li>• Impact of nutrition on the outcome of neuroinflammatory and neurodegenerative diseases. Evaluation by clinical-instrumental methods of functional performance (motor, cognitive and quality of life), biological markers of inflammation and changes in the gut microbiota.</li> <li>• Creation of consumption databases and assessment of the environmental impact of food choices.</li> <li>• Mechanisms of pressure regulation and organ damage production in the action of adrenal hormones and the renin-angiotensin system;</li> <li>• Double betelactam in the therapy of infections: concept of PBP (penicillin binding protein) saturation</li> <li>• CSF biomarkers in the prognosis of central nervous system infections</li> <li>• Clinical integration in oncology of imaging-derived biomarkers, including artificial intelligence</li> <li>• Clinical integration in lung pathology of imaging-derived biomarkers, including artificial intelligence</li> <li>• Clinical integration in rheumatology of imaging-derived biomarkers, including artificial intelligence</li> <li>• ICU acquired weakness strategies for diagnosis and therapy (nutrition hormones, microbiome)</li> <li>• Sepsis, diagnosis, markers and prognosis</li> <li>• Solid organ transplantation (liver and/or kidney) and acute renal failure, diagnosis, prevention, management</li> <li>• Hemodynamic monitoring, new systems, risk-benefit, outcome, utilization;</li> <li>• Interconnection between research, teaching and environments for the design, development, delivery and evaluation of training events developed for health professionals (with particular attention to the professionalism of the general, clinical and paediatric nursing sciences), in an intersectorial and multidisciplinary perspective</li> </ul>
<b>Research programs</b>	Decided by the Teaching Board within the PhD programme Research topics.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-mediche-cliniche-e-traslazionali/ph-d-programme/eng-scienze-mediche-cliniche-e-traslazionali?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-life-science/scienze-mediche-cliniche-e-traslazionali/ph-d-programme/eng-scienze-mediche-cliniche-e-traslazionali?set_language=en</a>
<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04).



**TABLE 10 – PhD Programme in CLINICAL AND TRANSLATIONAL MEDICAL SCIENCES**

	Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	English

**DOCUMENTS AND TITLES TO BE ATTACHED TO THE APPLICATION FOR ADMISSION**

<b>Compulsory documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Certification of the foreign University (for non UE applicants) or self-certification (for UE applicants) (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme with the list of the exams (with grades) and the final grade (for degrees obtained abroad refer to art. 3 and 4 of the Call);</li> <li>2. Curriculum vitae et studiorum, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry).</li> <li>4. Research project involving at least one of the above listed research topics (max 2 pages)</li> </ol>
<b>Optional documents</b> (art. 5 of the Call)	<ol style="list-style-type: none"> <li>1. Publications on impact factor journals (max 2);</li> <li>2. Letters of reference (max 2) written by university professors, scientific researchers or other experts in the field (art. 6 of the Call).</li> </ol>
<b>All titles must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

**SELECTION COMMITTEE**

<b>Appointed Members</b>	Giuseppe Damante – Full Professor – University of Udine Bruno Grassi – Full Professor – University of Udine Alvisa Palese – Full Professor – University of Udine
<b>Substitute Members</b>	Stefano Lazzer – Associate Professor – University of Udine Piercamillo Parodi - Associate Professor – University of Udine Maria Parpinel - Associate Professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

**Positions available: 8**

<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 6</b>	<b>3</b>	Univ.Udine	€ 16,243.00	max 6 months optional	Consistent with the research topics of the PhD programme
	<b>1</b>	External Institution: Dipartimento di Area Medica (DAME) - Piano di Sviluppo Dipartimentale*	€ 16,243.00	max 6 months optional	Consistent with the research topics of the PhD programme
	<b>1</b>	External Institution: Istituto Superiore di Sanità*	€ 17,080.81	max 6 months optional	Tools and methods for nutritional epidemiology from a translational perspective, to assess the impact of nutritional patterns on human health
	<b>1</b>	External Institution: Istituto Superiore di Sanità*	€ 17,080.81	max 6 months optional	Interconnection between research, teaching and environments for the design, development, delivery and evaluation of training events developed for health professionals (with particular attention to the professionalism of the general, clinical and paediatric nursing sciences), in an intersectorial and multidisciplinary perspective
<b>Positions WITHOUT SCHOLARSHIP: 2</b>	<b>2</b>	-	-	max 6 months optional	Consistent with the research themes of the PhD Programme

\* Scholarships funded by External Institutions and by associated locations can be assigned on condition of the approval of the agreement that governs the funding or the issuing of the decree granting the funds (art. 14 paragraph 7).



**TABLE 10 – PhD Programme in CLINICAL AND TRANSLATIONAL MEDICAL SCIENCES**

<b>Competition procedure and test schedule</b>		
<p>Evaluation of qualifications and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills to tackle the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. Applicant is admitted to the oral examination if his/her titles receive at least 15 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.</p> <p><b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023</b> <b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023</b></p>		
<b>Foreign language that can be used for examination</b>	Italian or English	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae and studiorum	<i>10</i>
	Scientific publications	<i>4</i>
	Letters of reference	<i>2</i>
	Research project	<i>14</i>
<b>Oral examination</b>	Part of the oral examination will be in English.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 18, 2023</b>
	<b>Time</b>	<b>10.00 AM</b>
	<b>Place</b>	Department of Medical Area (DAME), Room B – Piazzale Kolbe 4, 33100 Udine ITALY
	Based on the number of applicants, the oral examination may take more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 11 – PhD Programme in ART HISTORY, FILM STUDIES, MEDIA STUDIES AND MUSIC**

<b>THE PhD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Humanities and Cultural Heritage (DIUM) - vicolo Florio 2, 33100 Udine (+39 0432 556100)
<b>Associated location</b>	-
<b>Location for training, teaching and research activity</b>	Teaching and other training activities will take place primarily at the administrative programme location or in other locations of the University of Udine. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at the administrative programme location, other locations of the University of Udine or financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Alessandro Del Puppo (alessandro.delpuppo@uniud.it)
<b>Programme duration</b>	3 years
<b>Curricula</b>	1. Art History 2. Film Studies, Media Studies, Music
<b>Research topics</b>	<i>Art History</i> 1. Medieval Art History; 2. Modern Art History; 3. 19 <sup>th</sup> and 20 <sup>th</sup> Century Art History (Painting and Sculpture); 4. Museum Studies, Art Restoration History, Art Criticism; 5. Architecture History. 6. Museum and exhibit display at Palazzo Venezia in Rome  <i>Film Studies, Media Studies, Music</i> 1. Film, Photography and TV Studies; 2. Media Studies (game studies, media studies, screen studies); 3. Musicology.
<b>Research programs</b>	Research programs will be approved by the Teaching Board of the Ph.D. programme within the research topics of the programme.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/art-history-film-studies-media-studies-and-music/ph-d-programme/art-history-film-studies-media-studies-and-music?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/art-history-film-studies-media-studies-and-music/ph-d-programme/art-history-film-studies-media-studies-and-music?set_language=en</a> <a href="https://dium.uniud.it/en/didattica/corsi-di-studio/dottorati-di-ricerca/storia-dellarte-cinema-media-audiovisivi-e-musica/">https://dium.uniud.it/en/didattica/corsi-di-studio/dottorati-di-ricerca/storia-dellarte-cinema-media-audiovisivi-e-musica/</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Required degree</b>	Italian Laurea (before DM 509/99) or Italian Laurea Specialistica/Magistrale (ex DM 509/1999 and DM 270/04). Foreign degrees and titles: refer to art. 3 and 4 of the Call.
<b>Knowledge of the following foreign language</b>	One of the following: English, French, German, Spanish

<b>DOCUMENTS AND QUALIFICATIONS TO BE ATTACHED TO THE APPLICATION FOR ADMISSION</b>	
<b>Compulsory documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Certification or self-certification (refer to art. 5 paragraph 5 of the Call) of the academic title needed for admission to the PhD programme and list of the exams (with grades) passed during the Italian first level (bachelor) and the Laurea Specialistica/Magistrale programmes, or during the Italian programmes before D.M. 509/99, or during the foreign academic programmes;</li> <li>2. Master thesis ("Tesi di Laurea") associated to the degree/title providing access to the PhD programme. Applicants who are not graduated on the expiration date of this Call must submit an extended abstract in place of the complete thesis, in Italian or English language, signed by themselves and by their thesis Supervisor (approximate limit 25.000 characters, spaces included);</li> <li>3. Curriculum vitae et studiorum, dated and signed;</li> <li>4. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>5. Research project, dated and signed, referred to the research topics listed in this table (approximate limit 20.000 characters, spaces included, in English/Italian language). The project's structure should touch upon the following questions: <ul style="list-style-type: none"> <li>- Objectives;</li> <li>- State of the art;</li> <li>- Methodology;</li> <li>- Achievable results;</li> <li>- Timeline;</li> <li>- Bibliography.</li> </ul> </li> </ol>



**TABLE 11 – PhD Programme in ART HISTORY, FILM STUDIES, MEDIA STUDIES AND MUSIC**

<b>Optional documents</b> (art. 5 of the Call)	1. Motivation letter by which the applicant explains the reasons for admission to the PhD programme, dated and signed (approximate limit 2.500 characters, spaces included); 2. Publications (max 5).
<b>All qualifications must be presented exclusively in PDF format, dated and signed by the candidate.</b>	

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	Elena Fumagalli – Full Professor – University of Modena e Reggio Emilia Orietta Lanzarini – Associate Professor – University of Udine Cosetta Saba – Associate Professor – University of Udine Luca Cossetti – Assistant Professor – University of Udine
<b>Substitute members</b>	Mariapia Comand – Full Professor – University of Udine Roberto Calabretto – Full Professor – University of Udine Vittorio Foramitti – Associate Professor – University of Udine Andrea Mariani – Assistant Professor – University of Udine

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

<b>Positions available: 6</b>					
<i>Detailed description</i>	<i>N.</i>	<i>Funding</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 6</b>	5	Univ. Udine	€ 16,243.00	max 6 month optional	Program in line with research topics of the PhD programme
	1	External Institution: Department of Humanities and Cultural Heritage (DIUM)*	€ 16,243.00	max 6 month optional	Program in line with research topics: Digital Humanities e/o Heritage Science
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	0	-	-	-	-

\* The scholarship is funded from the resources of the "Department of Excellence Project- Department of Humanities and Cultural Heritage (DIUM)" (CUP G23C22003370001) of the University of Udine and will be assigned to research projects consistent with Digital Humanities and/or Heritage Science topics. The Supervisor will be a professor/researcher belonging to the Department of Humanities and Cultural Heritage.

<b>Competition procedure and test schedule</b>		
Evaluation of qualifications and oral examination. For the evaluation of applicants' attitude for scientific research and their basic skills before the course program, the Selection Committee can attribute up to 100 points to each applicant: max 30 points to the titles and max 70 points to the oral examination. The applicant is admitted to the oral examination if his/her titles receive at least 21 points. The oral examination is passed with at least 49 points. The applicant is eligible to the PhD programme if he/she passes the oral examination. Only for eligible applicants, the points attained in the oral examination will be added to the points of the titles.		
<b>DATE FOR THE PUBLICATION OF ADMITTED APPLICANTS TO THE ORAL EXAMINATION: within July 7, 2023</b>		
<b>DATE FOR THE PUBLICATION OF THE FINAL RANKING LIST: within July 28, 2023</b>		
<b>Foreign language that can be used for examination</b>	Italian, English and/or French	
<b>Evaluation Criteria of qualifications</b> <i>During the preliminary meeting the Selection Committee may establish sub-criteria for the evaluation</i>	Curriculum vitae et studiorum	3
	Research project	16
	Scientific publications	3
	Thesis/Abstract	7
	Motivational letter for admission to the PhD programme	1
<b>Oral examination</b>	The oral examination aims at verifying the research skills of the applicants, with particular reference to the research project.	
<b>Calendar of the oral examination</b>	<b>Date</b>	<b>July 17, 2023</b>
	<b>Time</b>	<b>12:00 AM</b>
	<b>Location</b>	Department of Humanities and Cultural Heritage (DIUM) - Sala del lampadario, Palazzo Caiselli, vicolo Florio 2, 33100 Udine.
	Based on the number of applicants, the oral examination may take place in more than one day. Applicants must exhibit a valid ID for admission to the oral examination.	



**TABLE 12 – PhD Programme in LINGUISTICS AND LITERATURE**

<b>THE PHD PROGRAMME</b>	
<b>Administrative location</b>	University of Udine, Department of Languages and Literatures, Communication, Education and Society (DILL) - Palazzo Antonini - Via Petracco, 8 – Udine 33100 (ph. +39 0432 556750).
<b>Associated location</b>	University of Trieste (Department of Law, Language, Interpreting and Translation Studies; Department of Humanities) - Piazzale Europa 1, 34127 Trieste.
<b>Locations of lectures, seminars, and research activities</b>	Lectures, seminars and research activities will be held at the Universities of Udine and Trieste. The research program will be mainly developed, with reference to the scholarship (see art. 11 of the Call) and/or to the supervisor assigned, at one of these locations: administrative location, associated location, financial supporter's location (if the financial supporter is an external institution).
<b>Coordinator</b>	Prof. Elena Polledri (elena.polledri@uniud.it)
<b>Programme duration</b>	3 years
<b>Curricula</b>	1. Foreign Literatures; 2. Linguistics, Translation, Interpretation; 3. Italian Studies.
<b>Research topics</b>	<ul style="list-style-type: none"> <li>- Foreign Literatures: this curriculum focuses on the interpretation and analysis of texts pertaining to modern European and Extra-European literatures and cultures of the following areas: Anglophone and Anglo-American Studies, French and Francophone Studies, Spanish and Hispanophone Latin American Studies, German Studies, Russian Studies, Serbian and Croatian Studies;</li> <li>- Linguistics, Translation and Interpretation: this curriculum offers an interdisciplinary approach to the study of foreign languages and linguistics (including applied linguistics), general linguistics, historical linguistics, Germanic and Slavic philology, the theory and practice of translation and interpreting, in relation to their respective languages (French, English, Russian, Serbian and Croatian, Spanish, German);</li> <li>- Italian Studies: this curriculum intends to provide and refine skills and competence in the fields of Italian literary history, literary theory, history of the Italian language, Italian and Romance philology, History of the theatre and comparative literature.</li> </ul>
<b>Research lines</b>	The PhD programme board establishes the lines of research according to the specificities of the three PhD programme curricula.
<b>Programme website</b>	<a href="https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/language-and-literature/ph-d-programme/language-and-literature?set_language=en">https://www.uniud.it/en/research/do-research/doctorate-res/our-ph-d-programmes/area-social-science-and-humanities/language-and-literature/ph-d-programme/language-and-literature?set_language=en</a>

<b>ADMISSION REQUIREMENTS</b>	
<b>Degree required</b>	Italian "Laurea Magistrale/MA degree" (ex DM 270/04): LM-5 in Archival and Library Studies; LM-14 in Modern Philology; LM-15 in Classical Philology, Literature and History; LM-37 in Modern European and American Languages and Literatures; LM-38 in Modern Languages for International Communication and Cooperation; LM-39 in Linguistics; LM-94 in Specialized Translation and Interpreting; LM-85bis five-year degree in Primary Education. Italian "Laurea" (prior to DM 509/99) or Italian Laurea specialistica (ex DM 509/1999) equivalent to the MA degrees mentioned above (in accordance to DI 9/07/2009). For foreign degrees and titles: see articles 3 and 4 of the Call for applications.
<b>Knowledge of at least one of the following foreign languages</b>	French, English, Russian, Serbian and Croatian, Spanish, German.

<b>APPLICATION REQUIREMENTS</b>	
<b>Mandatory Documents (art. 5 of the Call)</b>	<ol style="list-style-type: none"> <li>1. Proof of BA and MA degree (refer to art. 5 paragraph 5 of the Call) and transcripts of records from all universities attended prior to the application, including degrees conferred prior to the implementation of the Bologna process (i.e. prior to D.M. 509/99) and degrees obtained abroad;</li> <li>2. Curriculum Vitae, dated and signed;</li> <li>3. Copy of a valid identity document (citizens of countries not belonging to the European Union a copy of a valid passport, comprehensive of the pages containing the holder's photo, personal details, passport number, date and place of issue, date of expiry);</li> <li>4. A description of the candidate's research project, dated and signed, relating to one of the research topics listed above (maximum 10.000 characters, spaces included, in Italian);</li> <li>5. A copy of the candidate's thesis submitted in fulfilment of the master's degree. Applicants who have not graduated before the application deadline must submit an extended abstract in place of the complete thesis, in Italian or English Language, signed by themselves and by their thesis supervisor (min 15,000 - max 25,000 characters, spaces included).</li> </ol>





**TABLE 12 – PhD Programme in LINGUISTICS AND LITERATURE**

	6. <b>Only for applicants who apply for reserved positions (art. 9 of the Call for applications):</b> proof of research grant conferred by a foreign institution or research grant as part of an international exchange program.
<b>Optional documents</b> (art. 5 of the Call)	1 Publications (max 2);

<b>SELECTION COMMITTEE</b>	
<b>Appointed members</b>	Elena Polledri – Associate Professor – University of Udine Maria Bortoluzzi – Associate Professor – University of Udine Margherita De Michiel – Associate Professor – University of Trieste Vittorio Formentin – Full Professor – University of Udine Laura Pelaschiar – Associate Professor – University of Trieste Paolo Quazzolo – Associate Professor – University of Trieste Francesca Todesco – Associate Professor – University of Udine
<b>Substitute members</b>	Alvise Andreose – Associate Professor – University of Udine Simone Costagli – Associate Professor – University of Udine Francesco Costantini – Associate Professor – University of Udine Caterina Falbo – Full Professor – University of Trieste Helena Lozano Miralles – Associate Professor – University of Trieste

**ADMISSION**

**GENERAL COMPETITION (art. 8 of the Call for Applications)**

<b>Positions available: 8</b>					
<i>Detailed description</i>	<i>N.</i>	<i>Funding institution</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITH SCHOLARSHIP: 8</b>	4	Univ. Udine	€ 16,243.00	Max 6 months optional	Consistent with the research topics listed above.
	3	Associated Institution: Univ. Trieste	€ 16,243.00	Max 6 months optional	Consistent with the research topics listed above.
	1	External Institution: Department of Humanities and Cultural Heritage (DIUM)*	€ 16,243.00	Max 6 mesi	Program consistent with the research topics listed above and involving the production of critical digital editions, databases or text corpora
<b>Positions WITHOUT SCHOLARSHIP: 0</b>	0	-	-		

\* The scholarship is funded from the resources of the "Department of Excellence Project- Department of Humanities and Cultural Heritage (DIUM)" (CUP G23C22003370001) of the University of Udine and will be assigned to research projects consistent with the topics of the PhD Programme and involving the production of critical digital editions, databases or text corpora. The Supervisor will be a professor/researcher belonging to the Department of Humanities and Cultural Heritage.

<b>Competition procedure and test schedule</b>		
Evaluation of application materials, written and oral examination. For the evaluation of the applicants' aptitude for research and study, the Selection Committee can assign up to 100 points to each candidate: - max 30 points for the evaluation of the candidates' application materials: CV, research project, publications and MA thesis (or thesis abstract); - max 30 points for the written examination; - max 40 points for the oral examination. The applicant is admitted to the written examination if his/her application materials receive at least 21 points. The applicant is admitted to the oral examination if he/she receives at least 9 points in the written examination. Applicants are considered eligible for the PhD programme if they receive at least 49 points in the written and oral examination combined. Only for eligible applicants, the points assigned to the application materials will be added to the points obtained in both examinations (written and oral).		
<b>THE LIST OF CANDIDATES ADMITTED TO THE WRITTEN EXAMINATION WILL BE MADE PUBLIC: no later than June 28, 2023.</b>		
<b>THE LIST OF CANDIDATES ADMITTED TO THE ORAL EXAMINATION WILL BE MADE PUBLIC: on July 5, 2023.</b>		
<b>THE FINAL RANKING LIST OF APPLICANTS WILL BE MADE PUBLIC: no later than July 28, 2023.</b>		
<b>Language in which the exam can be taken</b>	Italian	
<b>Criteria for the evaluation of CVs, research projects, publications, and thesis</b>	Curriculum vitae	6
	Research project	14
	Publications	3
	Thesis/Abstract	7
<i>The Selection Committee may establish sub-criteria for the evaluation</i>		



**TABLE 12 – PhD Programme in LINGUISTICS AND LITERATURE**

<b>Written examination</b>	The written examination, to be held in Italian, depends upon the curriculum. For all curricula, candidates are required to write an abstract in a foreign language: - for “Italian Studies” curriculum, candidates can choose one of the following languages: French, English, Russian, Serbian, Croatian, Spanish, German; - for the “Foreign Literatures” and “Linguistics, Translation and Interpretation” curricula and abstracts must be written in the language pertaining to the research projects (French, English, Russian, Serbian, Croatian, Spanish, German).	
<b>Written examination schedule</b>	<b>Date</b>	<b>July 4, 2023</b>
	<b>Time</b>	<b>8:30 AM</b>
	<b>Location</b>	University of Udine, room 10 and 7, Palazzo Antonini - Via Petracco 8, Udine. Applicants must produce a valid ID for admission to the written examination.
<b>Oral examination</b>	The oral examination will consist of a discussion of the candidate’s research project. For all Curricula, the oral examination will also include a conversation in the foreign language related to the candidate’s research project and chosen from: French, English, Russian, Serbian, Croatian, Spanish and German. In the event of admission to the oral examination of candidates who have chosen a language outside the selection committee’s areas of expertise, the committee may avail itself of external consultants.	
<b>Oral examination schedule</b>	<b>Date</b>	<b>July 6, 2023</b>
	<b>Time</b>	<b>8:30 AM</b>
	<b>Location</b>	The oral examination will be held in person. Università degli Studi di Udine, room 2, Palazzo Antonini - Via Petracco 8, Udine.
	Depending on the number of applicants, the oral examination may take more than one day. Applicants must produce a valid ID for admission to the oral examination.	

**COMPETITION FOR RESERVED POSITIONS (art. 9 of the Call for Applications)**

<b>Positions available: 2</b>					
<i>Detailed description</i>	<i>N.</i>	<i>Funding institution</i>	<i>Annual gross amount</i>	<i>Period abroad</i>	<i>Research program</i>
<b>Positions WITHOUT SCHOLARSHIP for applicants holding foreign PhD grants: 1 *</b>	1	-	-	-	Consistent with the research topics listed above.
<b>Positions WITHOUT SCHOLARSHIP for applicants holding international mobility grants: 1 **</b>	1	-	-	-	Consistent with the research topics listed above.

\* Positions WITHOUT SCHOLARSHIP reserved for applicants holding a three-year scholarship funded by a foreign country

\*\* Positions WITHOUT SCHOLARSHIP reserved for applicants holding a three-year scholarship as part of international mobility programs

**Competition procedure and test schedule**

The selection is based on the evaluation of the candidates’ CVs, research projects, publications and thesis. The Selection Committee can assign up to 100 points to each applicant. Applicants are deemed qualified candidates if they earn a score of at least 70. The Selection Committee may contact applicants for an interview (also in a remote modality) for further information on the submitted documents. The interview does not give any additional score. <b>THE FINAL RANKING LIST OF APPLICANTS WILL BE MADE PUBLIC: no later than July 28, 2023</b>		
<b>Criteria for the evaluation of CVs, research projects, publications, and thesis</b>	Curriculum vitae et studiorum	25
	Research project	35
	Publications	10
	Thesis/Abstract	30
<i>The Selection Committee may establish sub-criteria for the evaluation</i>		