Prot. .... – Tit. .... cl. .... - fasc. ....

CALL FOR APPLICATIONS NR 4/2023 FOR 10 SCHOLARSHIPS FOR STUDENTS ENROLLING AT THE MASTER'S DEGREE IN COMPUTATIONAL FINANCE, COMPUTER SCIENCE, CYBERSECURITY, DATA SCIENCE, MATHEMATICS – a.y. 2023/2024

Foreword: The official source of the Call is "Bando di concorso nr. 4/2023 per l'assegnazione di complessivi 10 premi di studio per l'iscrizione alle lauree magistrali in Computational Finance, Computer Science, Cybersecurity, Data Science, Mathematics – a.a. 2023/2024" in Italian. This translated version is intended only for a better comprehension. For legal purposes, the parties should refer only to the Italian version of the Call.

In the framework of the initiatives aiming to promote its educational activities, the Department of Mathematics "Tullio Levi-Civita" of the University of Padua,

ANNOUNCES

a selection procedure to assign **10 (ten)** one-year scholarships for especially gifted students who enroll to one of the Departmental Master's Degrees. The fellowships are renewable for one extra year, upon winners application.

The scholarships are divided as follows:

- 2 (two) scholarships for the enrollment in Computational Finance Master's Degree
- 2 (two) scholarships for the enrollment in Computer Science Master's Degree
- 2 (two) scholarships for the enrollment in Cybersecurity Master's Degree
- 2 (two) scholarships for the enrollment in Data Science Master's Degree
- 2 (two) scholarships for the enrollment in Mathematics Master's Degree

1. Conditions required to participate to the selection on the basis of the Master Degree selected

Note: In case of Italian three-year degree. To read the required SSDs, please consider comma separated numbers as follows e.g.: "MAT/02,03,05,06,07,08" read as MAT/02, MAT/03, MAT/ 05, MAT/06, MAT/07, MAT08. Also, consider numbers separated by "a" as follows, e.g.: MAT/01 to 09 read as MAT/01, MAT/02, MAT/03, MAT/04, MAT/05, MAT/06, MAT /07, MAT/08, MAT/09).

1.1 Computational Finance Master Degree
Candidates must have the following requirements:
- for candidates with an Italian educational qualification:
   o a minimum three-year undergraduate Italian degree;

- o at least 10 ECTS divided within the following Scientific-Disciplinary Sectors (SSD): MAT/02, MAT/03, MAT/05, MAT/08, MAT/09, SECS-S/06, 6 ECTS in SSD: MAT/06, SECS-S/01, SECS-S/02, SECS-S/03, SECS-P/05;
  - o minimum grade equivalent to 100/110;
- for candidates with a foreign qualification:
  - o a minimum three-year undergraduate degree (or equivalent) with proven skills in Mathematics, Probability, Statistics;
  - o minimum grade equivalent to 100/110;
- engage to enroll in the a.y. 2023/2024 at the Master's degree in Computational Finance of the University of Padua;
- possess a European citizenship or residency or study visa in Italy;
- being younger than 25 years old at the date of the deadline of the present selection procedure;
- not being winner of any other scholarships, except for those awarded by Italian or foreign institutions with the aim to integrate either student education or research activity by means of periods abroad;
- absence of criminal convictions or penal proceedings in progress.

Students who have previously received sanctions following the presentation of false declarations aimed at obtaining benefits for the right to study are not allowed to apply.

1.2 Computer Science Master Degree

Candidates must have the following requirements:
- for candidates with an Italian educational qualification:
  - o a minimum three-year undergraduate degree in the class of "L-31 -Scienze e tecnologie informatiche" o "L-8 - Ingegneria dell'informazione" o "L-35 - Scienze Matematiche" o "L-41 – Statistica" o "L-30 Scienze e Tecnologie Fisiche" ex DM 270/04 oppure della laurea nella classe/i "26 - Scienze e tecnologie informatiche" o "9 - Ingegneria dell'informazione" o "32 - Scienze Matematiche" o "37 Scienze Statistiche" o "25 Scienze e Tecnologie Fisiche" ex DM 509/99;
  - o at least 20 CFU in the following Scientific-Disciplinary Sectors (SSD): INF/01; ING INF/05;
  - o minimum grade equivalent to 100/110;
- for candidates with a foreign qualification:
  - o a minimum three-year undergraduate degree (or equivalent) in Computer Science, Information Engineering or related fields (e.g., Mathematics or Statistics) is required, with proven skills in computer science;
  - o minimum grade equivalent to 100/110;

- engage to enroll in the a.y. 2023/2024 at the Master's degree in Computer Science of the University of Padua;
- possess a European citizenship or residency or study visa in Italy;
- being younger than 25 years old at the date of the deadline of the present selection procedure;
- not being winner of any other scholarships, except for those awarded by Italian or foreign institutions with the aim to integrate either student education or research activity by means of periods abroad;
- absence of criminal convictions or penal proceedings in progress.

Students who have previously received sanctions following the presentation of false declarations aimed at obtaining benefits for the right to study are not allowed to apply.

1.3 Cybersecurity Master Degree

Candidates must have the following requirements:
- for candidates with an Italian educational qualification:
    - a minimum three-year undergraduate degree;
    - at least 42 ECTS divided within the following Scientific-Diciplinary Sectors (SSD):
        - 24 CFU INF/01; ING-INF/03,05
        - 18 CFU MAT/01 a 09
    - minimum grade equivalent to 100/110;
- for candidates with a foreign qualification:
    - a minimum three-year undergraduate degree (or equivalent), with proven skills in Information Technology and Information Engineering, such as the basics of programming, communication networks and information systems;
    - minimum grade equivalent to 100/110;
- engage to enroll in the a.y. 2023/2024 at the Master's degree in Cybersecurity of the University of Padua;
- possess a European citizenship or residency or study visa in Italy;
- not being winner of any other scholarships, except for those awarded by Italian or foreign institutions with the aim to integrate either student education or research activity by means of periods abroad;
- absence of criminal convictions or penal proceedings in progress.

Students who have previously received sanctions following the presentation of false declarations aimed at obtaining benefits for the right to study are not allowed to apply.

1.4 Data Science Master Degree

Candidates must have the following requirements:
- for candidates with an Italian educational qualification:

- o a minimum three-year undergraduate degree;
- o at least 30 ECTS divided within the following Scientific-Disciplinary Sectors (SSD): MAT/01-09; SECS-S/01; SECS-S/06; INF/01; ING-INF/05 of which at least 12 in MAT/01-09 or SECS-S/01 or SECS-S/06; and at least 6 in INF/01 or ING-INF/05.
- o minimum grade equivalent to 100/110;
- for candidates with a foreign qualification:
  - o a minimum three-year undergraduate degree (or equivalent) is required, with proven skills in Mathematics and Computer Science;
  - o minimum grade equivalent to 100/110;
- engage to enroll in the a.y. 2023/2024 at the Master's degree in Data Science of the University of Padua;
- possess a European citizenship or residency or study visa in Italy;
- being younger than 25 years old at the date of the deadline of the present selection procedure;
- not being winner of any other scholarships, except for those awarded by Italian or foreign institutions with the aim to integrate either student education or research activity by means of periods abroad;
- absence of criminal convictions or penal proceedings in progress.

Students who have previously received sanctions following the presentation of false declarations aimed at obtaining benefits for the right to study are not allowed to apply.

1.5 Mathematics Master Degree

Candidates must have the following requirements:

- for candidates with an Italian educational qualification:
  - o a minimum three-year undergraduate degree in the class of L-35 (Scienze Matematiche) (DM 470/2004) o 32 (Scienze e tecnologie per l'ambiente e la natura) (DM509/1999);
  - o at least 50 ECTS, divided within the following Scientific-Disciplinary Sectors (SSD): MAT/02,03,05,06,07,08;
  - o minimum grade equivalent to 100/110;
- for candidates with a foreign qualification:
  - o a minimum three-year undergraduate degree (or equivalent) in Mathematics or related subjects, with proven skills in Algebra, Geometry, Mathematical and Numerical Analysis, Probability and Statistics, Mathematical Physics;
  - o Minimum grade equivalent to 100/110;
- engage to enroll in the a.y. 2023/2024 at the Master's degree in Mathematics of the University of Padua;
- possess a European citizenship or residency or study visa in Italy;

- being younger than 25 years old at the date of the deadline of the present selection procedure;
- not being winner of any other scholarships, except those awarded by Italian or foreign institutions with the aim to integrate either student education or research activity by means of periods abroad;
- absence of criminal convictions or penal proceedings in progress.

Students who have previously received sanctions following the presentation of false declarations aimed at obtaining benefits for the right to study are not allowed to apply.

1.6 Admission requirements for students who have not yet obtained the bachelor's degree
Students who do not hold the required academic qualification at the time of the application, may still apply in case that they will obtain the Degree by the **December 31st, 2023** at the latest, with minimum grade of 100/110 (or equivalent grade for non-Italian degrees).

2. Application procedure and Form
The application form, on plain paper, must follow the template that accompanies the present announcement (attached A). It must be duly signed by the candidate and sent to the Department of Mathematics "Tullio Levi-Civita" must be submitted no later than **12:00 pm (CEST)** on **October 2nd, 2023** in one of the following forms:

- Via certified email (PEC) to the address dipartimento.math@pec.unipd.it. The application can be signed with a digital or handwritten signature and must be sent together with a copy of the signer's ID document. The digital or handwritten signature must also be affixed to all documents that require a signature (CV and self-certifications).
- Via email to didattica@math.unipd.it. The application can be signed with a digital or handwritten signature and must be sent together with a copy of the signer's ID document. The digital or handwritten signature must also be affixed to all documents that require a signature (CV and self-certifications).

For applications sent by certified e-mail (PEC) the return receipt will be sent automatically by the PEC manager; whereas for applications sent by e-mail, the return receipt will be sent by the Department of Mathematics.
The candidate shall indicate on the message object the following: *"Bando di concorso per l'assegnazione dei Premi di Studio nr. 4/2023"*.
Electronic submission must be in static formats and not directly modifiable, without macroinstructions and executable codes, PDF/A format is suitable.
Applications received after the deadline will not be accepted.
The application form template is also available at the link https://www.math.unipd.it/dipartimento/amministrazione-trasparente/sovvenzioni-contributi-sussidi-vantaggi-economici/premi-di-studio/.
The candidate must declare under his own responsibility:

- surname and name, place and date of birth, citizenship, tax code, residence address and address chosen for the purpose of this announcement, specifying zip code, telephone number, e-mail and skype contact;
- name of the professor who will provide the letter of presentation;
- to possess the admission requirements;
- to promptly communicate any change in residence or address indicated in the application form;
- to have never received sanctions caused by false declarations in the attempt to obtain unwarranted benefits for his education;
- to be aware of and to accept all the rules included in the announcement.

Applications must include:

- a copy of a valid identity document (Identity Card or Passport);
- a dated and signed detailed CV;
- any document concerning previous university career, including marks obtained in each single exams with translation into English or Italian for foreign transcripts;
- letter of presentation written and signed by the Bachelor's Degree thesis supervisor or by any other Bachelor's degree Professor contacted by the student. **The professor has to send the letter of presentation by mail** at the address **premilm@math.unipd.it by 12:00pm (CEST)** on **September 25, 2023;**
- motivation letter written in Italian or in English;
- any other document, qualification or publication useful for the selection process.

Incomplete applications, filled out illegibly, or that do not fully meet the required conditions will not be taken into consideration. Participation in the announcement implies full acceptance of this regulation. False documents and statements imply the exclusion from the competition or the right of recourse/refund in the case of scholarship already assigned.

3. Selection procedure and communication to winners

The Department of Mathematics "Tullio Levi-Civita" of the University of Padova will verify the respect of the announcement requirements.

A student shall not be considered properly enrolled if she/he does not fulfil the university fees obligations.

Scholarships shall be assigned by a Selection Committee, nominated by the Director of the Department of Mathematics.

The Selection Committee shall consider the following standards:

- scholastic merits: average achieved in the three-year course;

- information about the academic career and the thesis project as shown in the letter of presentation;
- motivation to attend the Master's Degree in Mathematics as indicated in the motivation letter;
- other elements included in the curriculum vitae and in other attached documents.
- possible interview in presence or by zoom, of which the candidates will be notified at least 15 days in advance, on the following topics:
  - three-year thesis project;
  - candidate's motivations;
  - knowledge of the basic subjects of the Bachelor's Degree.

For the evaluation of the interview it will be taken into consideration:
  - quality of three-year thesis project;
  - depth of candidate's motivations';
  - proficiency on the basic subjects.

On the basis of the documents presented by the candidates and possibly following an interview, corresponding to the announcement standards, the Committee shall assign the scholarship. The decision of the Commission is unquestionable and there is no appeal against it.

The Committee has the right not to award the scholarships. This can happen either if the commission finds that no candidate is deemed worth to receive the fellowship or in case of loss of financial coverage.

The selection results shall be published on the web site of the Department of Mathematics, at the address https://www.math.unipd.it/dipartimento/amministrazione-trasparente/sovvenzioni-contributi-sussidi-vantaggi-economici/premi-di-studio/ and on the web site of the University of Padua, at the address https://www.unipd.it/premi-studio-studenti .

The winners shall receive communication by e-mail, at the address indicated in the application. The final selection results shall be published on the web site of the Department of Mathematics, at the address https://www.math.unipd.it/dipartimento/amministrazione-trasparente/sovvenzioni-contributi-sussidi-vantaggi-economici/premi-di-studio/ and on the web site of the University of Padova, at the address https://www.unipd.it/premi-studio-studenti.

4. Scholarships amount, terms of payment and renewal conditions

4.1 – Academic Year 2023/2024

Each Scholarship for the enrolment in the Master's Degree in Computational Finance, Computer Science, Cybersecurity, Data Science, Mathematics – a.y. 2023/2024 has the annual value of € 6.000 gross amount, and it shall be paid to enrolled students by the Department of Mathematics "Tullio Levi-Civita" in two solutions respectively within March 31st, 2024 and June 30th, 2024. Before paying the first solution, the regular payment of the registration fee will be verified.

4.2 – Renewal (Academic Year 2024/2025)

Scholarship shall be renewed for the amount of € 6.000 gross amount, once the financial coverage is confirmed, at the following conditions:

- achievement of at least 40 ECTS of the approved study plan, without credits recognised from previous academic careers, within the September 30th, 2024;
- enrolment in the academic year 2024/2025.

The renewal request shall have to be presented within October 31st, 2023 by the student with the same procedure indicated in the point 2 of this document. Additionally, the student must attach the transcript of records of the first year (including ECTS and exams results) and enrollment certification.

Scholarship renewal instalments will be paid respectively within March 31st, 2025 and June 30th, 2025.

5. Personal data

The processing of personal data provided by candidates takes place in compliance with the provisions of EU Regulation 27.04.2016 n. 679 (General Data Protection Regulation - GDPR). The complete information on the processing of personal data is available at the following link https://www.unipd.it/privacy.

6. General Information

This announcement is available on the website of the Department of Mathematics, at the address https://www.math.unipd.it/dipartimento/amministrazione-trasparente/sovvenzioni-contributi-sussidi-vantaggi-economici/premi-di-studio/ on the website of the University of Padua, at the address: https://www.unipd.it/premi-studio-studenti.

Further information can be required to the Secretariat of the Department of Mathematics "Tullio Levi-Civita" by mail at the address premilm@math.unipd.it indicating as object *"Richiesta informazioni bando di concorso per l'assegnazione dei Premi di Studio nr. 4/2023"*.

Attachments:

- Annex A –Application Form Template

Padova, 10/05/2023

The Head of the Department
Prof. Bruno Chiarellotto