

ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA FORMAZIONE E DOTTORATO

AREA

PHD PROGRAMME TABLE 40TH CYCLE

Section "Available Positions and Scholarships" integrated on 11/06/2024

PROGRAMME'S NAME	STATISTICAL SCIENCES
DURATION	3 years
PROGRAMME START DATE	01/11/2024 (DD/MM/YYYY)
LANGUAGES	Italian, English
COORDINATOR	Prof.ssa Angela Montanari (<u>angela.montanari@unibo.it</u>)
PhD POSITIONS	6
ADMISSION PROCEDURE	Qualifications evaluation
	Oral examination

Available Positions and Scholarships

Pos. n.	Financial Support	Description	Topic-specific positions
1	PhD scholarship	Totally funded by the University of Bologna general budget	
2	PhD scholarship	Totally funded by the University of Bologna general budget	
3	PhD scholarship	Totally funded by the University of Bologna general budget	
4	PhD scholarship	Totally funded by the University of Bologna general budget	
5	PhD scholarship	Funded by the University of Bologna general budget and by the Department of Statistical Sciences "Paolo Fortunati"	
6	PhD scholarship	Funded by the Department of Statistical Sciences "Paolo Fortunati" in partnership with Max Planck Institute for Demographic Research and with funds made available by the project POPCLIMA_H2020ERC – ref. Prof. Raya Muttarak	Assessing the impact of climate change and conflict on demographic behaviour

The number of positions and scholarships may be incremented in case additional funding becomes available, notwithstanding the terms of the application process in the Call. Any amendment, update or integration of the Programme Table will be published on the University website, even after the Call for applications has expired. Any further PhD positions shall be integrated in the PhD Programme Table within ten days before the oral examination.

All PhD positions winners shall fulfill the learning and research obligations decided by the Academic Board and the obligations foreseen in the relevant regulations, funding schemes and eventual agreements, and in the Call for Applications.

Admission Exams

	DATE AND TIME	RESULTS
Qualifications evaluation	Applicants' participation is not required	Available from 28/06/2024
Oral examination	Date: starting from 09/07/2024 – 10.00 a.m. CEST Place: In presence, Department of Statistical Sciences "Paolo Fortunati", Via Belle Arti 41, Bologna. Remotely, using Microsoft Teams	Available from 12/07/2024

The results of the qualifications and research proposal evaluation shall be available on the webpage <u>Studenti Online</u> (select "summary of the requests in progress" > "see detail" and open the .pdf file at the bottom of the page) together with the oral examination detailed schedule. **No personal written communication will be sent to applicants concerning the examinations results**.

During the oral examination, applicants may express their interest in one or more positions linked to specific research topics.

Required and Supporting Documents to be attached to the application

All the documents listed below **shall be drawn up in English or in Italian**. In case of documents originally issued in any other language (e.g. identity document, qualifications), an official translation is required. Only qualifications obtained **during the last 5 calendar years** shall be taken into consideration, except for the University Degree. The Admission Board will assess the relevance of the supporting documents to the PhD Programme.

REQUIRED DOCUMENTS				
Identity document	Valid identity document with photo (i.e. identity card, passport)			
Curriculum Vitae	The Curriculum Vitae must be drawn up using exclusively the <u>Curriculum Vitae form</u> , in Attachment 1 to the present PhD programme table and downloadable in .docx from the <u>University website</u> (select the PhD Programme \rightarrow " <i>More information</i> ", then check " <i>Notices</i> " at the bottom of the page). A 5 points penalty on the total qualification evaluation score shall be applied to applicants not using the attached form.			
Degrees	Documents attesting the awarding of the first and second cycle degrees, the exams taken and the marks obtained (see Art. 3 of the Call for Applications)			
SUPPORTING DOCU	MENTS			
Thesis abstract	Abstract of the second cycle degree thesis . Graduands applicants may submit an abstract of their thesis' draft. Abstracts cannot exceed 5 pages, including references and images such as graphs, diagrams, tables etc. – if present. Applicants awarded a second cycle degree in a foreign university, where the research thesis was not part of the programme, shall submit a research proposal (max 5 pages, including references and images such as graphs, diagrams, tables etc. – if present.			
Reference letter/s	No more than 1 reference letter, drawn up using the <u>Reference Letter form</u> , in Attachment 2 to the present PhD programme table and downloadable in .docx from the <u>University website</u> (select the PhD Programme \rightarrow " <i>More information</i> ", then check " <i>Notices</i> " at the bottom of the page). The letter shall be signed by Italian and international academics and professionals in the research field, which do not form part of the Admission Board, and shall attest the suitability of the applicant and his/her interest in the scientific research. Letters shall be uploaded following the procedure detailed in the Call for Applications (Art. 3.2).			
Publications	Full text publications, as listed in the Curriculum Vitae (i.e. monographs, articles on scientific journals). Publications with ISSN or ISBN only, and relevant to the PhD programme, shall be evaluated.			
Other documents	 Documents showing the applicant is in possession of the qualifications listed in the Curriculum Vitae: periods of study abroad, completed by applicants outside their countries of origin (e.g. Erasmus programme or other similar mobility programmes) tutorship activity carried out at academic level 			

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 internship in scientific institutions or Research Assistantship research grants or postgraduate scholarship payed by a University or other research institution
- relevant work activity
- relevant prize awards
- TOEFL/CAE/CPE/IELTS or other language proficiency certificate
- other qualifications attesting the suitability of the applicants

Evaluation criteria*

Scores will be expressed in points out of 100, as follows.

1. Qualifications and research proposal evaluation

Minimum score for admission to the oral example.	amination: 35 points, Maximum score: 50 points
Academic path, assessed according to the relevance to the PhD programme's main topics	 5 points max distributed as follows: 0 points: no relevance up to 3 points: partial relevance up to 5 points: full relevance
Main topics exams (see point 3, in the Curriculum Vitae form)	 24 points max distributed as follows: up to 2 points for each relevant exam listed in the CV up to 14 points for the average mark for the selected exams
Publications	2 points max
Other documents	 6 points max distributed as follows up to 2 points for vocational activity (study periods abroad, tutoring activity) up to 2 points for internship in scientific institutions or Research Assistantship up to 2 points for research grants or postgraduate scholarship payed by a University or other research institution up to 2 points for relevant work activity up to 2 points for relevant prize awards up to 2 points for TOEFL/CAE/CPE/IELTS or other language proficiency certificate up to 1 point for other study or research qualification
Further evaluation elements	 13 points max distributed as follows: up to 3 points for the reference letter up to 10 points for the thesis abstract (or research proposal)

2. Oral examination

Minimum score for eligibility: 30 points, Maximum score 50 points

General knowledge of the PhD programme's main research topics and of the research topics linked	40 points max
to the available PhD positions	
Personal statement	10 points max

Oral examination aims to assess the suitability of the applicant for scientific research as well as the general knowledge of the PhD programme's main research topics and of the research topics linked to the available PhD positions. The oral examination is carried out in English.

Suggested readings for the interview:

- Casella, G., & Berger, R. L. (2002), Statistical inference (Vol. 2). Pacific Grove, CA: Duxbury.

- Mood A. Graybill F.A., Boes D.C. (1974), Introduction to the Theory of Statistics, McGraw Hill College.

For further details, see https://phd.unibo.it/statistics/en/admissions

* Possible further evaluation criteria will be available on the <u>University website</u>, selecting the relevant PhD Programme > "More information".

Allegato 1

CURRICULUM FOR APPLICATION TO THE PHD COURSE IN STATISTICS UNIVERSITY OF BOLOGNA

NAME:

Surname

Name

1. IDENTIFY YOUR CURRENT POSITION

Write the position which best describes the activity in which you are currently involved.

2. LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED.

INSTITUTION AND LOCATION (List in reverse order. Write name in	MAIN FIELD(S)	DATES (Monthly/Year)		NAME OF QUALIFICATION,	DATE OF ATTAINMENT (or expected date if
full. Do not abbreviate)	OF STUDY	From	То	TITLE CONFERRED and GRADE	not attained yet)

Instructions for foreign students:

Do not try a conversion of your university grading scale. Indicate the grades as granted by your school and give us a brief explanation of your school's grading system. Please describe the grading system(s) used at all colleges and universities you have attended. Explain the specific meaning of any numeric values, letter grades, and rankings.

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3. RECORD OF COURSES TAKEN IN PREPARATION FOR GRADUATE STUDY

Based on your transcript(s), please complete the following summary of your college and university classes. In particular, you are required to list the <u>five courses</u> that you consider most relevant to certify basic knowledge in Mathematics, Probability and Statistics.

Instructions for foreign students:

Do not try a conversion of your university grading scale or GPA. Indicate the grades/GPA as granted by your school and give us a brief explanation of your school's grading system. Please describe the grading system(s) used at all colleges and universities you have attended. Explain the specific meaning of any numeric values, letter grades, and rankings.

Course name (and number, if available)	Principal teaching material used (if any book indicate author and title)	Year taken	Credits	Official course grade (if applicable)

4. LIST ANY PUBLICATIOS AUTHORED BY YOU, ESPECIALLY IN YOUR PROPOSED FIELD OF STUDY

Give title, place, date, and all authors of publication (Only publications with ISSN or ISBN a relevant for the PhD course will be evaluated).

5. LIST SCHOLARSHIPS OR FELLOWSHIPS HELD AT PRESENT OR IN THE PAST FOR STUDY

Give source or sponsor, amount, place and duration, for instance: ERASMUS Scholarship, 6 months, University of Aarhus.

6. TEACHING OR TUTORING EXPERIENCE

Indicate any teaching qualification, teaching or tutor position you have hold or you are currently holding.

7. RESEARCH ASSISTANTSHIPS OR INTERNSHIP AT SCIENTIFIC INSTITUTIONS

Indicate place, duration and a brief description of the research activity developed during the internship.

8. RESEARCH GRANTS OR SCHOLARSHIPS FOR RESEARCH

Indicate any grants, scholarships for research you have completed or in which you are currently involved. Give source or sponsor, amount, place and duration.

9. WORK EXPERIENCE

List the positions held, beginning with the most recent employment.

NAME AND ADDRESS OF THE EMPLOYER	TITLE/TYPE OF WORK	DATES (M	DATES (Month/Year)	
		From	То	
			1	

10. INDICATE ANY ACADEMIC HONOR OR PRIZE WHICH YOU HAVE RECEIVED, WITH TITLES AND DATES

11. LANGUAGE SKILLS

Rate yourself Excellent, Good, Fair or Poor. Include all languages in which you have some competence.

Mother Tongue

LANGUAGE	READING	WRITING	SPEAKING
English			
Italian			

Language certifications

TOEFL:	Date taken:	Scores:
IELTS:	Date taken:	Scores:
	Date taken:	Scores:
	Date taken:	Scores:

12. FURTHER TITLES OR RESEARCH ACTIVITIES

Include any further significant activity or research stage experience you have completed or in which you are currently involved.

13. SCHOLARSHIPS - Expression of interest

Should the Course advertise special topics grants, candidates must indicate whether they intend to compete exclusively for scholarships that are not linked to any special topic. Candidates intending to compete for special topics positions should indicate their order of preference - limited to the topics of interest. Preferences expressed in this section will provide an indication of the candidate's interests and will not be binding.

Do you intend to compete exclusively for scholarships that are not linked to any special topic?

[]Yes

[] No

Please, express your order of preference for the special topics you intend to consider (see the call for titles).

- 1.
- 2.
- 3.
- 4.

...

SIGNATURE:______ DATE: ______

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Allegato 2						
CONFIDENTIA	L LETTER OF	REFERENCE				
FOR APPLICATION TO	THE PHD CO	OURSE IN ST	ATISTICS			
UNIVERSITY OF BOLOGNA						
(to be filled either in English or in Italian)						
This letter of reference must be written by an instructor under wh or by someone who has supervised the applicant in work related to		nt has studied or	pursued rese	arch in the pro	posed field of study	
NAME OF APPLICANT					_	
NAME OF REFEREE						
TITLE						
INSTITUTION OR COMPANY						
CITY AND COUNTRY					_	
					_	
1. HOW LONG HAVE YOU KNOWN THE APPLICANT?						
2. IN WHAT CAPACITY HAVE YOU KNOWN THE APPLICANT?						
[] Instructor or Professor	[] Employer or	Job Supervisor				
[] Research Advisor	[] Other (Pleas	se specify)				
3. IN THIS RATING CHART, PLEASE EVALUATE THE APPLICANT			ΝΤς ΤΗΔΤ να	μανε κνιο		
PROFESSIONAL CAREER						
	Excellent	Very Good	Average	Below Average	Not Applicable	
Intellectual ability				Average	Applicable	
Knowledge of field						
Work habits						
Motivation to pursue graduate study						
Seriousness of study						
Potential for significant future contribution in field						
Resourcefulness and initiative						
Emotional maturity	1					
Adaptability to new situations	1		1		+	
Leadership qualities	1					
Teaching potential	1					

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4.	4. HOW DOES THIS APPLICANT COMPARE WITH HIS OR HER PEER GROUP IN ACADEMIC ABILITY?				
	[] Truly exceptional Equivalent to the very best you have known – a person who, in your experience, appears only every few years	[] Outstanding Comparable to the best student in a current class	[] Well above average Top 25%	[] Above average Demonstrated high ability	
	[] Average Able to complete work to the PhD	[] Below average Lower 50%	[] Inadequate Opportunity to observe		
5.	IN YOUR OPINION, HOW WOULD THIS	STUDENT COMPARE TO OTHER STU	DENTS IN THE GRADUATE PROG	GRAMME IN STATISTICS?	
	[] Truly exceptional	[] Outstanding	[] Well above average	[] Above average	
	[] Average	[] Below average	[] Inadequate		
6.	PERSONAL EVALUATION OF THE APPL ACCOMPLISHMENTS IN RESEARCH OF HAVE ENTERED THE BOLOGNA PhD PR	R INDEPENDENT PROJECTS WILL BE	PARTICULARLY HELPFUL. IF YO		

7.	EXPERT'S DATA We would be most grateful if you could provide us some information on your cv.
	PERSONAL WEB PAGE
	EDUCATION
	CURRENT POSITION
	FIELD OF EXPERTISE
	ADVISED PHD STUDENTS (NUMBER OF)
	RESEARCH PAPERS (MAX 5) IN ISI REFEREED JOURNALS
SIG	DATE:DATE: