



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

Department of Agricultural and
Food Sciences (DISTAL)

ACCADEMIC YEAR
2022/2023

PhD Programme in Agricultural, Environmental and Food Science and Technology (STAAA)

KICK-OFF MEETING of the 38th Cycle



December 13th, 2022

Outline

- 1. General information on STAAA PhD programme**
2. Presentation of first-year PhD students
3. Teaching activities for A.Y. 2022/23
4. STAAA PhD programme framework
5. PhD Student Representatives
6. Being a PhD student at Unibo

UNIBO – PhD Programmes



POSTGRADUATE TRAINING (A.Y. 2020/2021)

48 PhD programme degree

Subject area	Title
Biological, Geological and Agricultural Sciences	Agricultural, Environmental and Food Science and Technology
	Cellular and Molecular Biology
	Earth, Life and Environmental Sciences
	Health, Safety and Green Systems
	Innovative Technologies and Sustainable Use of Mediterranean Sea Fishery and Biological Resources (FishMed-PhD)
	Science and Culture of Well-being and Lifestyles
Engineering Studies	Architecture and Design Cultures
	Automotive Engineering for Intelligent Mobility
	Biomedical, Electrical and System Engineering
	Civil, Chemical, Environmental and Materials Engineering
	Computer Science and Engineering
	Electronics, Telecommunications and Information Technologies Engineering
	Mechanics and Advanced Engineering Sciences - DIMSAI
	Structural and Environmental Health Monitoring and Management - SEHM2
Mathematical Physical, Chemical and Astronomical Sciences	Astrophysics
	Chemistry
	Data Science and Computation
	Future Earth, Climate Change and Societal Challenges
	Mathematics
	Nanoscience for Medicine and the Environment
	Physics

Subject area	Title
Medical, Pharmaceutical and Veterinary Medical Sciences	Biomedical and Neuromotor Sciences
	Biotechnological, Biocomputational, Pharmaceutical and Pharmacological Sciences
	Cardio Nephro Thoracic Sciences
	General Medical and Services Sciences
	Health and Technologies
	Oncology, Hematology and Pathology
	Surgical Sciences
	Veterinary Sciences
Humanistic Studies	Cultural and Environmental Heritage
	Global Histories, Cultures, and Politics
	History and Archaeology. Studies on Heritage, Memory and Cultures
	Literary and Philological Cultures
	Modern Languages, Literatures, and Culture
	Pedagogical Sciences
	Philosophy, Science, Cognition, and Semiotics-PSCS
	Psychology
	Translation, Interpreting, Intercultural Studies
	Visual, Performing and Media Arts
Legal, Politological, Economic and Statistical Sciences	Economics
	European Law
	Law, Science and Technology
	Legal Studies
	Management
	Political and Social Sciences
	Sociology and Social Research
	Statistical Sciences

• **1,819** PHD STUDENTS
of whom 328 are not Italian
from the following geographical regions

Europe	124
Asia	128
Africa	27
North America	9
Central and South America	39
Oceania	1





ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

UNIBO – Departments

The **32 Departments** are the University structures in charge of organizing scientific research and teaching and learning activities



-  **SCIENCE**
-  **TECHNOLOGY**
-  **MEDICINE**
-  **HUMANITIES**
-  **SOCIAL STUDIES**



Dept. of Agricultural and Food Sciences (DISTAL)

The DISTAL operates in 4 Districts in the Municipality and Province of Bologna (CAAB/Viale Fanin, Cadriano, Ozzano dell'Emilia and Imola) and 1 Campus in the Romagna area (Cesena)



Research centres:
Cadriano
Ozzano dell'Emilia

Bologna











Cesena









DISTAL – Teaching/Degrees and Third Cycle Programmes

1° Cycle Degree/Bachelor

 1st Cycle Degree/Bachelor Agricultural Technology - cod. 5832	 1st Cycle Degree/Bachelor Animal Production - cod. 8882	 1st Cycle Degree/Bachelor Food Technology - cod. 8528	 1st Cycle Degree/Bachelor Land and Agro-Forestry Technologies - cod. 5831
 1st Cycle Degree/Bachelor Marketing and Economics of the Agro-Industrial System - cod. 5833	 1st Cycle Degree/Bachelor Sciences and Culture of Gastronomy - cod. 5808	 1st Cycle Degree/Bachelor Sciences and Technologies for Green and Landscape - cod. 5830	 1st Cycle Degree/Bachelor Viticulture and Enology - cod. 8527

2° Cycle Degree/Master

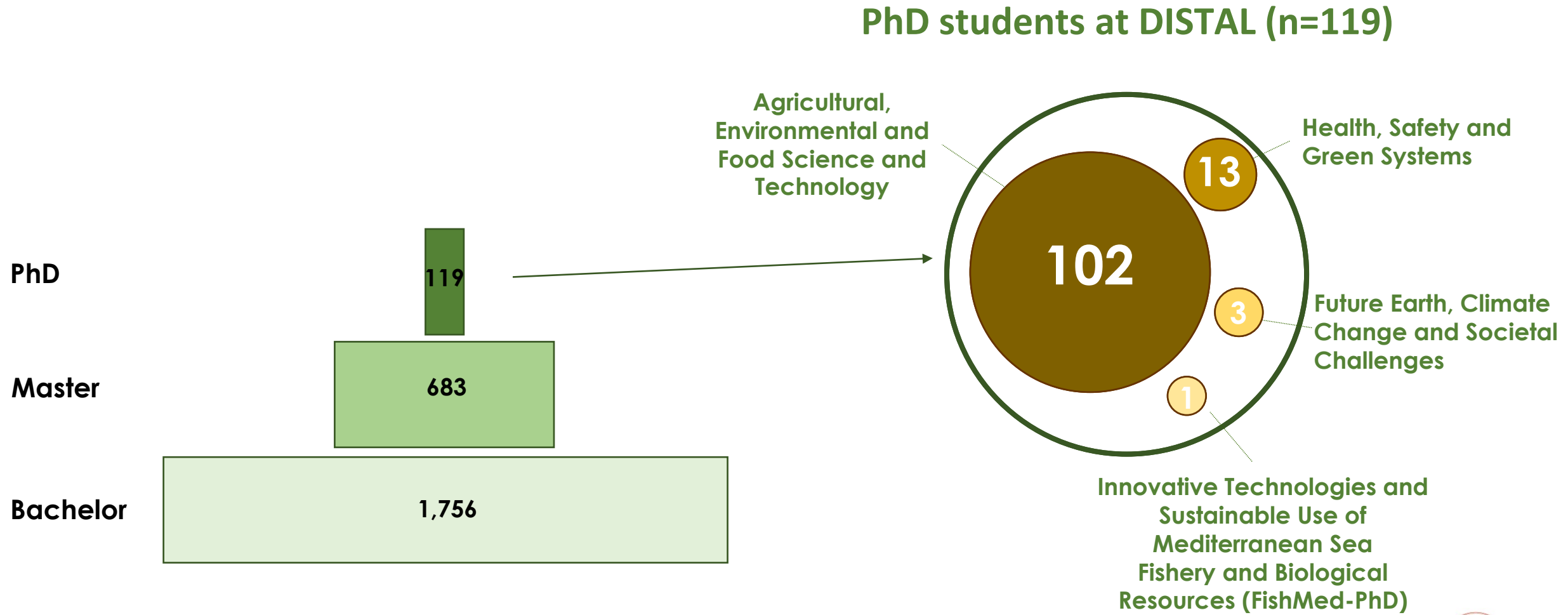
 2nd Cycle Degree/2 year Master Agricultural Sciences and Technologies - cod. 9235	 2nd Cycle Degree/2 year Master Food Safety and Food Risk Management - cod. 9140 🌐 International programme	 2nd Cycle Degree/2 year Master Food Science and Technology - cod. 8531	 2nd Cycle Degree/2 year Master International Horticultural Science - cod. 8883 🌐 International programme
 2nd Cycle Degree/2 year Master Planning and management of agro- territorial, forest and landscape - cod. 8532	 2nd Cycle Degree/2 year Master Precise and Sustainable Agriculture - cod. 5705 🌐 International programme		

3° Cycle Research/Doctorate



PHD PROGRAMME
AGRICULTURAL, ENVIRONMENTAL
AND FOOD SCIENCE AND TECHNOLOGY

DISTAL – Students Enrolled in DISTAL Courses (A.Y. 2021/22)



Foundation of STAAA PhD Course

STAAA was founded in 2010 from the merging of 9 doctoral courses

Herbaceous Crops, Agricultural Genetics and Agroterritorial Systems

International Cooperation and Sustainable Development Policies

Microbial Ecology and Plant Pathology

Agricultural and Food Economics and Policy

Agricultural Entomology

Agricultural Engineering

Food Science and Biotechnology

Animal Science

Tree and Ornamental Crops and Landscape Forest Agrosystems

PhD Course in
**Agricultural,
Environmental and Food
Science and
Technology
(STAAA)**
organized in
9 research topics

Coordinators: Claudio Ciavatta (2010-2012), Giovanni Dinelli (2012-2018) and Massimiliano Petracchi (2018-)



STAAA – Research Topics and Academic Board

1. **Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry** (Dinelli, Accinelli, Ciavatta, Falsone, Prosdocimi Gianquinto, Salvi)
2. **International Cooperation and Sustainable Development Policies** (Vittuari)
3. **Microbial Ecology and Plant Pathology** (Ratti^b, Baraldi, Di Gioia)
4. **Agricultural and Food Economics and Policy** (Canavari)
5. **Agricultural Entomology** (Burgio)
6. **Agricultural Engineering** (Torreggiani, Ragni)
7. **Food Science and Biotechnology** (Romani, Capozzi, Parpinello, Petracci^a, Vannini^c)
8. **Animal Science** (Trevisi, Dall'Olio)
9. **Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape** (Spinelli^d, Magnani)
10. **Water-Food-Energy-Sustainable Agriculture Nexus** (Toscano)

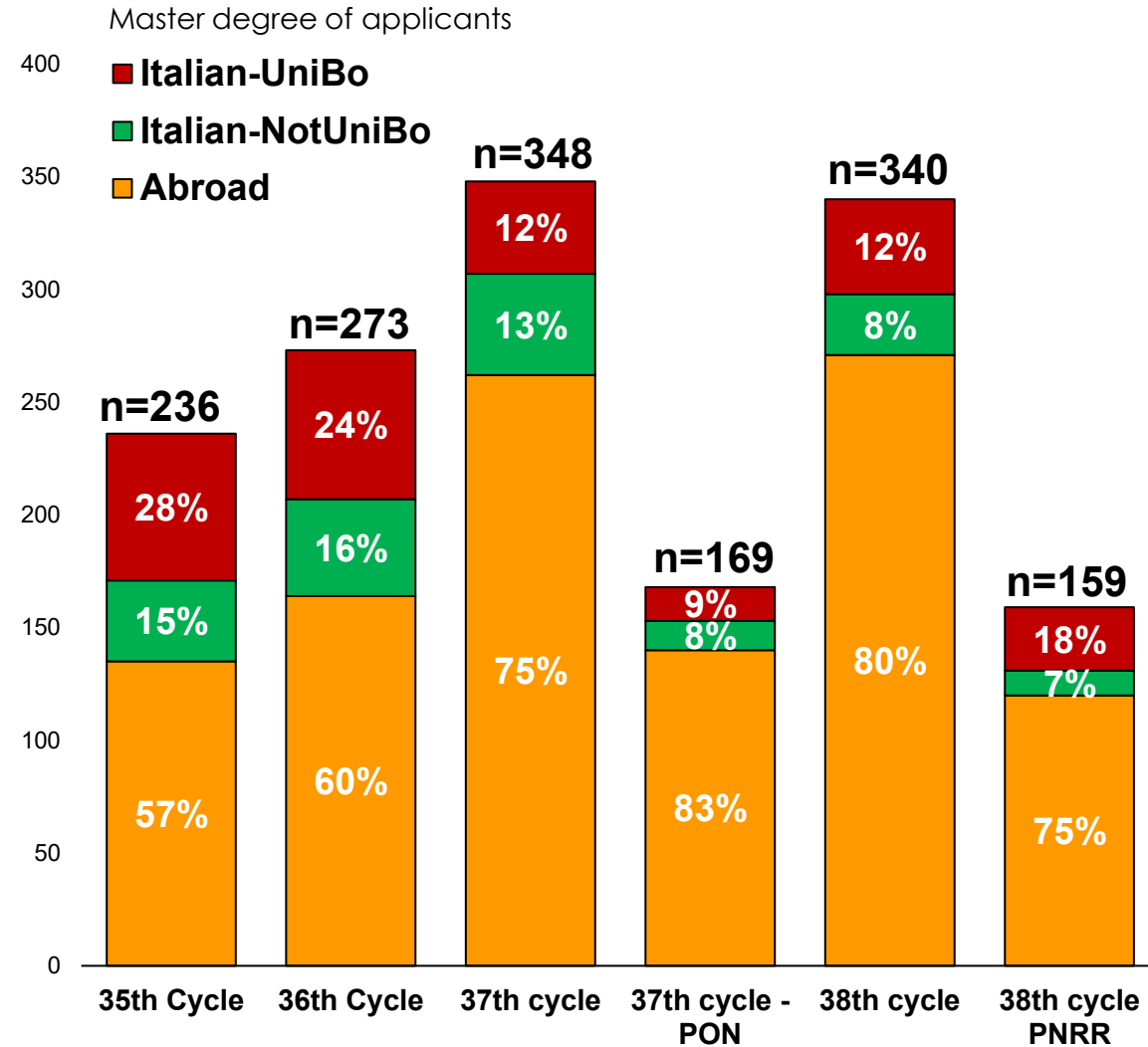


^aCoordinator; ^bVice-coordinator; ^cDocument preparation contact person; ^dTeaching activity contact person

Outline

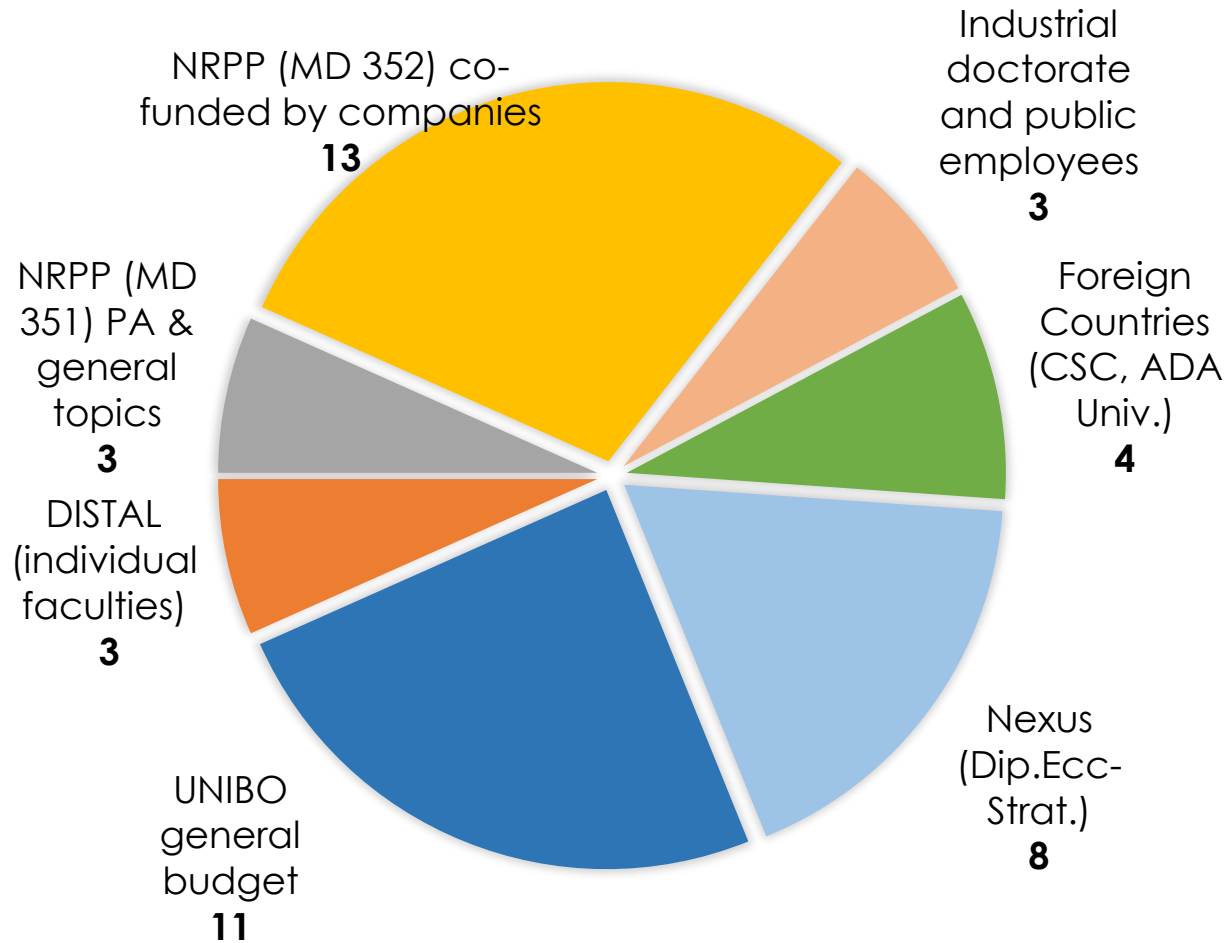
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STAAA – Applications for the Last 4 Cycles (35th-38th)

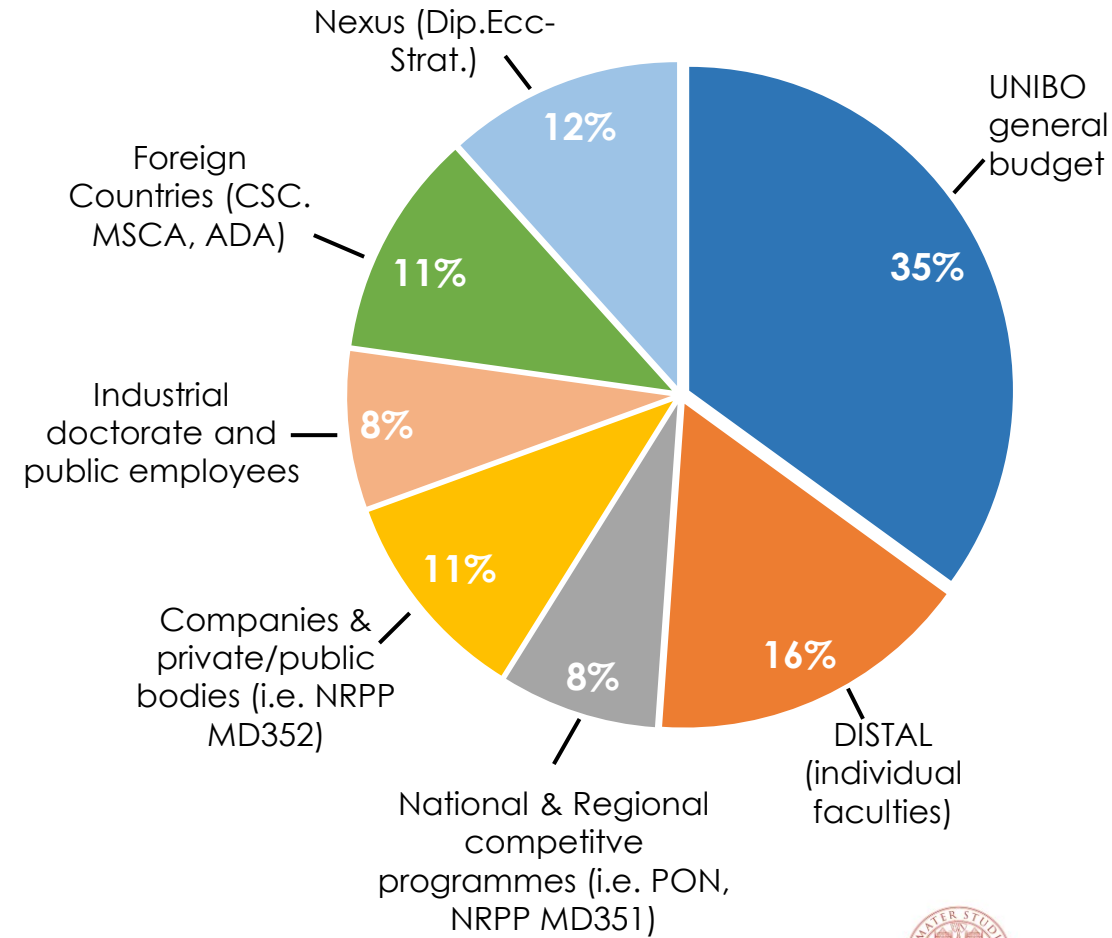


STAAA – Sources of Scholarships

38th Cycle (n=45)



Last 4 Cycles



STAAA – 2nd NRRP Call for Applications (38th Cycle)

Available Positions and Scholarships (n=15)

PhD Scholarship NRRP CN BIODIV – National Biodiversity Future Center	1 – Adaptation and mitigation of Climate Change in terrestrial ecosystems. Ecological responses and future scenarios
PhD Scholarship NRRP CN AGRI – National Research Centre for Agricultural Technologies	4 – Integrated strategies for technology innovation and sustainability of agriculture
PhD Scholarship NRRP PE2 NEST – Network 4 Energysustainable Transition	1 – Renewable energy incorporation in agriculture
PhD Scholarship NRRP PE10 ONFOOD – Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods	6 – Innovative solutions, practices and behaviors on food and nutrition safety, security and sustainability
PhD scholarship funded by individual DISTAL faculty	1 – New approaches to stimulate the transition towards sustainable food systems
Industrial Doctorate (executive)	1 – Reserved to employees of Piksel S.r.l. - «Innovative approaches for the management of green public procurement in agricultural and food systems»
	1 – Reserved to employees of Animal Health and Welfare Department - Ministry for Agriculture, Fisheries and Animal Rights of Malta - «Strategies for improving animal welfare in Malta»

Application

deadline: December 14th, 2022

Results of title and research project evaluation and release of oral examination calendar: January 16th, 2023

Oral examination: January 23th, 2023

Results of oral examination: January 31st, 2023

Final ranking list &

Enrollment: Mid February, 2023

PhD Programmes start date: March 1st, 2023



STAAA – PhD Students Enrolled in the 38th Cycle



STAAA – PhD Students Enrolled in the 38th Cycle (1/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Addoriso Rocco	<i>Extra-quota position - Public employee</i>	Agricultural and Food Economics and Policy	<i>Evaluation of environmental sustainability at the level of a single agricultural crop activity</i>	Maurizio Canavari (Michele Mattetti)	AGR/01 (07/A1)
Amadori Simone	<i>PhD scholarship funded by individual DISTAL faculty</i>	International Cooperation and Sustainable Development Policies	<i>Validating life cycle thinking as a key tool for shaping sustainable city-region food business ecosystems</i>	Matteo Vittuari (Andrea Segrè, Francesco Orsini)	AGR/01 (07/A1)
Aminravan Marzieh	<i>PhD scholarship funded by the UNIBO general budget under the “Progetti di Sviluppo Strategico dei Dipartimenti”</i>	Water-Food-Energy-Sustainable Agriculture Nexus	<i>Certification, labelling and traceability: readiness and adaptability in the agri-food supply chains</i>	Luca Mulazzani (Giulio Malorgio)	AGR/01 (07/A1)
Angelucci Chiara	<i>PhD scholarship funded by NextGenEU/NRPP (MD352) & CLAI Soc. Coop. Agrícola</i>	Food Science and Biotechnology	<i>Use of non-thermal treatments to improve the quality, safety and shelf-life of products of animal origin</i>	Massimiliano Petracci (Giulia Tabanelli, Francesca Soglia, Rudy Magnani)	AGR/20 (07/G1)
Benedetti Beatrice	<i>PhD scholarship funded by funded by the UNIBO general budget</i>	Animal Science	<i>On-farm welfare assessment of horses</i>	Barbara Padalino (Leonardo Nanni Costa, Francesca Freccero)	AGR/19 (07/G1)

STAAA – PhD Students Enrolled in the 38th Cycle (2/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Calì Martina	<i>PhD scholarship funded by NextGenEU/NRPP (MD351) – NRPP research</i>	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Integrated strategies for innovation and sustainable development in agri-food production</i>	Antonio Prodi (Riccardo Baroncelli)	AGR/12 (07/D1)
Chen Xueqin	<i>Extra-quota position - PhD scholarship funded by China Scholarship Council</i>	Microbial Ecology and Plant Pathology	<i>The role of ncRNAs in the Arabidopsis/Colletotrichum model pathosystems</i>	Elena Baraldi (Riccardo Baroncelli)	AGR/12 (07/D1)
Chiarelli Giacomo	<i>PhD scholarship by MIUR under the "Departments of Excellence" and co- funded by individual DISTAL faculty</i>	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Study of the effect of organic fertilizers from bio-wastes and by-products on grapevine root dynamics and nutrient uptake efficiency: the role of PGPR</i>	Moreno Toselli (Elena Baldi)	AGR/03 (07/B2)
Ciccone Marianna	<i>PhD scholarship funded by the UNIBO general budget (co-financing required for "Departments of Excellence")</i>	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Microbial biopolymers for innovative packaging to increase food shelf-life and safety</i>	Francesca Patrignani (Lorenzo Siroli, Davide Gottardi)	AGR/16 (07/I1)
Ciocca Angelica	<i>PhD scholarship funded by funded by the UNIBO general budget</i>	Agricultural Engineering	<i>A machine learning approach for outlining the usage of agricultural machinery</i>	Michele Mattetti (Maurizio Canavari)	AGR/09 (07/C1)



STAAA – PhD Students Enrolled in the 38th Cycle (3/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Colendi Luca	PhD scholarship funded by NextGenEU/NRPP (MD352) & CHN Italia Spa	Agricultural Engineering	<i>Data-driven methods to develop accelerated test profiles for agricultural tractor transmissions</i>	Michele Mattetti (Stefano Meleti)	AGR/09 (07/C1)
Consolini Michele	PhD scholarship funded by the UNIBO general budget (co-financing required for "Departments of Excellence")	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Energy analysis of crops through CANBUS technologies</i>	Michele Mattetti (Angelo Fabbri)	AGR/09 (07/C1)
D'Aprile Andrea	Industrial Doctorate (executive) – Easy Lock Srl	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Development of technologies and protocols for the production of mulberry seedlings by means of hydroponic cultivation systems in controlled environment</i>	Francesco Orsini (Matteo D'Arco, Giuseppina Pennisi)	AGR/04 (07/B1)
Dimattia Bartolo Giuseppe	PhD scholarship funded by funded by the UNIBO general budget and co- funded by DISTAL	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Use of X-ray tomography ad hydrological methods to study soil structure and root architectural properties</i>	Marco Bittelli (Silvio Salvi)	AGR/02 (07/B1)
Domenichini Cecilia	PhD scholarship funded by funded by the UNIBO general budget	Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape	<i>Identification of genes involved in Stemphylium vesicarium susceptibility in European pear</i>	Luca Dondini (Stefano Tartarini)	AGR/03 (07/B2)

STAAA – PhD Students Enrolled in the 38th Cycle (4/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Drei Pietro	PhD scholarship by MIUR under the "Departments of Excellence" and co-funded by individual DISTAL faculty	Water-Food-Energy-Sustainable Agriculture Nexus	Risk assessment and valorisation of polluted water (agricultural drainage water and domestic wastewater) streams	Stevo Lavrnic (Attilio Toscano, Giuseppe Mancuso)	AGR/08 (07/C1)
Drudi Federico	PhD scholarship by MIUR under the "Departments of Excellence"	Water-Food-Energy-Sustainable Agriculture Nexus	Innovative non-thermal technologies for the functionalization of vegetal and alternative proteins: functional and rheological characterization	Urszula Tylewicz (Silvia Tappi)	AGR/15 (07/F1)
Gagliano Mara Antonia	Research grant funded by individual DISTAL faculty (Almaldea project)	Food Science and Biotechnology	Rapid analytical assessments of aroma and visual quality on food products of animal origin	Enrico Valli (Francesca Patrignani, Francesca Soglia)	AGR/15 (07/F1)
Giovannini Andrea	PhD scholarship funded by NextGenEU/NRPP (MD352) & Jingold Spa	Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape	Agronomic and environmental effects on the quality of the fruit of new varieties of Actinidia	Brunella Morandi (Cristina Fabbroni)	AGR/03 (07/B2)
Hasanli Gunay	Industrial Doctorate (executive) – Ada University (Azerbaijan)	Agricultural Engineering	GIS land analysis of agricultural areas	Daniele Torreggiani (Elton Mummadov, Marks Ibadzade)	AGR/10 (07/C1)

STAAA – PhD Students Enrolled in the 38th Cycle (5/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Jadhav Vivek	PhD scholarship funded by NextGenEU/NRPP (MD352) & Germina Srl	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Development of cultivation technologies in a protected environment through the application of adaptive greenhouse technology, aimed at promoting sustainable horticulture practices also with reference to cultivation in an urban environment</i>	Francesco Orsini (Marcello Lunardon)	AGR/04 (07/B1)
Jafari Fuad	Industrial Doctorate (executive) – Ada University (Azerbaijan)	Agricultural and Food Economics and Policy	<i>Value-enhancement of restored soils: promoting environmental, economic, and social sustainability through place branding</i>	Maurizio Canavari (Matteo Vittuari, Elton Mummadov, Marks Ibadzade)	AGR/01 (07/A1)
Kumar Yogesh	PhD scholarship funded by funded by the UNIBO general budget	Food Science and Biotechnology	<i>Dealcoholized wine: how preserve product quality combining chemistry and sensory science</i>	Andrea Versari (Giuseppina Parpinello, Arianna Ricci)	AGR/15 (07/F1)
Lenzi Lucia	PhD scholarship funded by NextGenEU/NRPP (MD351) – NRPP research	Water-Food-Energy-Sustainable Agriculture Nexus	<i>Integrated strategies for innovation and sustainable development in agri-food production</i>	Fabio Sgolastra (Giovanni Burgio)	AGR/11 (07/D1)
Liu Chunyi	Extra-quota position - PhD scholarship funded by China Scholarship Council	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Advanced genomics for characterizing and exploiting Triticaceae genetic resources towards the wheat improvement for resistance to plant pathogens</i>	Marco Maccaferri (Roberto Tuberosa, Cristian Forestan)	AGR/07 (07/E1)

STAAA – PhD Students Enrolled in the 38th Cycle (6/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Mastroberardino Rossella	PhD scholarship funded by individual DISTAL faculty	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Uncover and promote tolerance to temperature and water stress in Camelina sativa</i>	Andrea Monti (Walter Zegada- Lizarazu)	AGR/02 (07/B1)
Mazzoleni Riccardo	PhD scholarship funded by NextGenEU/NRPP (MD352) & FINAPP Srl	Agricultural Engineering	<i>Boosting irrigation scheduling and agricultural water management by means of new non invasive soil moisture sensors</i>	Gabriele Baroni (Marcello Lunardon)	AGR/08 (07/C1)
Milardo Roberta	PhD scholarship funded by funded by UNIBO general budget	Agricultural and Food Economics and Policy	<i>Development of a model to support efficient communication between actors of organic value chains</i>	Aldo Bertazzoli (Antonella Samoggia Maurizio Canavari)	AGR/01 (07/A1)
Mingrone Marco	PhD scholarship funded by NextGenEU/NRPP (MD352) & CHN Italia Spa	Agricultural Engineering	<i>Application of optical sensors (RGB, multispectral and hyperspectral) mounted on agricultural machinery for the non-destructive evaluation of parameters associated with the management of vineyards</i>	Chiara Cevoli (Luca Ferrari)	AGR/09 (07/C1)
Mordos Lorenzo Samuil	PhD scholarship funded by NextGenEU/NRPP (MD352) & ENI Spa	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Selection of oil seeds for energy crops</i>	Andrea Monti (Irene Rapone)	AGR/02 (07/B1)

STAAA – PhD Students Enrolled in the 38th Cycle (7/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Morelli Agata	PhD scholarship by MIUR under the "Departments of Excellence"	Water-Food-Energy- Sustainable Agriculture Nexus	<i>A faunistic analysis of pollinators in an urban farm matrix: does urban farming affect urban pollinator communities?</i>	Giovanni Burgio (Giovanni Giorgio Bazzocchi)	AGR/11 (07/D1)
Moussaoui Ahmed	PhD scholarship funded by NextGenEU/NRPP (MD351) – PA	Agricultural and Food Economics and Policy	<i>Analysis of the new governance models, mechanisms and performance of the new Common Agricultural Policy (2023-2027)</i>	Rino Ghelfi (Davide Viaggi, Maurizio Canavari)	AGR/01 (07/A1)
Njieukam Joel Armando	PhD scholarship funded by NextGenEU/NRPP (MD352) & Consorzio Bestack	Food Science and Biotechnology	<i>Development of an active bio- based coating for corrugated cardboard with waterproofing, antimicrobial and antiviral protection</i>	Rosalba Lanciotti (Claudio Dall'Agata, Lorenzo Siroli)	AGR/16 (07/I1)
Odone Giordano	PhD scholarship funded by NextGenEU/NRPP (MD352) & Consorzio per il Canale Emiliano Romagnolo	Agricultural Engineering	<i>Development and analyses of the impact of innovative solution for water reuse in agriculture</i>	Attilio Toscano (Raffella Zucaro, Stevo Lavrnic)	AGR/08 (07/C1)
Pagliarini Elia	PhD scholarship funded by funded by UNIBO general budget	Microbial Ecology and Plant Pathology	<i>Role of Plant Growth Promoting Rhizobacteria belonging to Bacillus spp. as bio-stimulants for enhancing biological and nutraceutical value of plant crops</i>	Loredana Baffoni (Francesca Gaggia Diana Di Gioia)	AGR/16 (07/I1)



STAAA – PhD Students Enrolled in the 38th Cycle (8/9)

PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Piscitelli Raffaella	<i>PhD scholarship funded by UNIBO general budget under the “Progetti di Sviluppo Strategico dei Dipartimenti”</i>	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Effects of environment and feeding on performance, sustainability and product quality in poultry food chains</i>	Federico Sirri (Marco Zampiga)	AGR/20 (07/G1)
Sambuco Bianca	PhD scholarship by MIUR under the “ Departments of Excellence ”	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Sustainable light-supplemented growing of nutraceutical and ornamental species</i>	Alberto Barbaresi (Daniele Torreggiani)	AGR/10 (07/C1)
Sgroi Camilla	PhD scholarship by MIUR under the “ Departments of Excellence ”	Water-Food-Energy- Sustainable Agriculture Nexus	<i>Understanding and testing of the role of the citizen-consumer in encouraging farmers towards a sustainable food production</i>	Matteo Vittuari (Andrea Segrè, Giovanni Dinelli)	AGR/01 (07/A1)
Strano Andrea	<i>PhD scholarship funded by NextGenEU/NRPP (MD352) & Zespri International Ltd</i>	Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape	<i>Innovative tools to improve storage life of kiwifruit</i>	Francesco Spinelli (Evangelos Xylogannis, Carlo Andreotti)	AGR/03 (07/B2)
Toschi Enrico	<i>PhD scholarship funded by NextGenEU/NRPP (MD352) & Agribioenergia Soc. Coop. Agricola</i>	Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	<i>Constructed wetlands systems for sustainable treatment and irrigation reuse of wastewater and agricultural drainage water</i>	Ilaria Marotti (Enrico Dall’Olio, Giovanni Dinelli)	AGR/02 (07/B1)

STAAA – PhD Students Enrolled in the 38th Cycle (9/9)

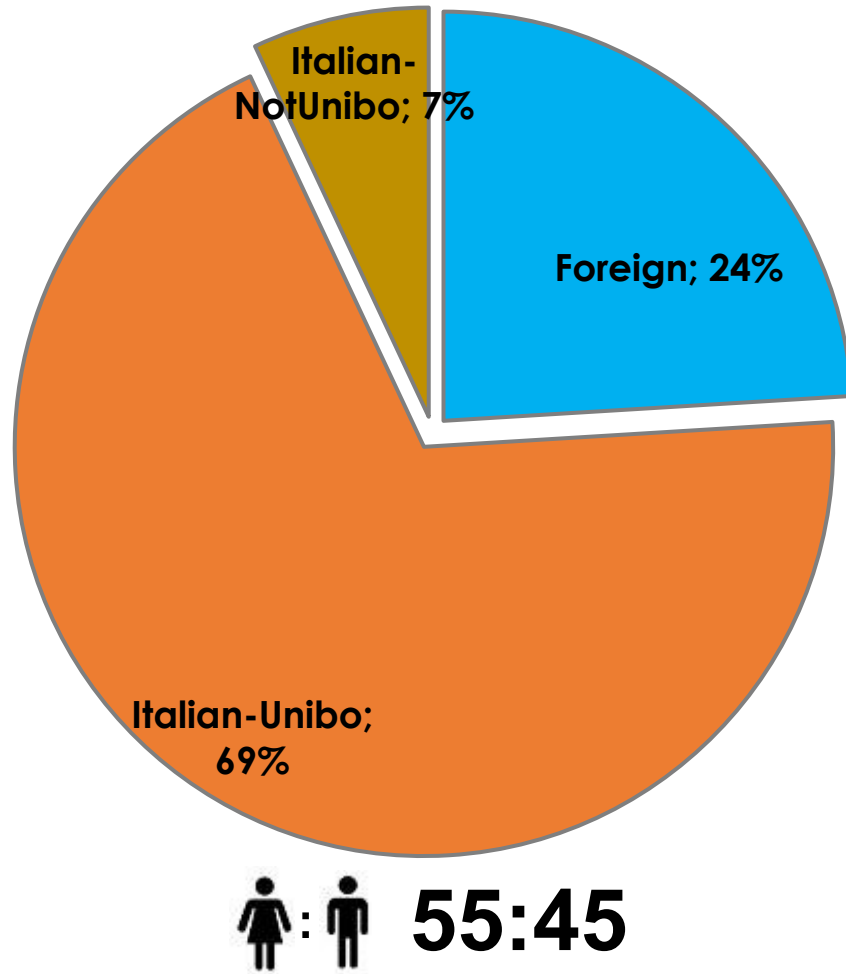
PhD student	PhD position	Research topic	Title	Supervisor (co-supervisors)	SSD (SC)
Trenti William	PhD scholarship funded by the UNIBO general budget (co-financing required for "Departments of Excellence")	Water-Food-Energy-Sustainable Agriculture Nexus	Organic carbon sequestration in soils: Assessment of potential and dynamics in mountain ecosystems	Livia Vittori Antisari (Gloria Falsone)	AGR/14 (07/E1)
Tucci Rosalba	PhD scholarship funded by NextGenEU/NRPP (MD352) & Olitalia srl	Food Science and Biotechnology	Analysis of volatile substances on extra virgin olive oils and flavored oils, development of a predictive system for determining the shelf-life	Alessandra Bendini (Silvia Mingione, Enrico Casadei)	AGR/15 (07/F1)
Viola Paola	Industrial Doctorate (executive) – Reggia di Caserta	Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape	The preservation of historic garden in a museum system: groundwork for a technically suitable, sustainable and replicable care and management plan	Alberto Minelli (Tiziana Maffei)	AGR/04 (07/B1)
Zaheer Ammad	PhD scholarship funded by NextGenEU/NRPP (MD352) & Cooperativa Edile Appennino S.c. A R.l.	Agricultural Engineering	Constructed wetlands systems for sustainable treatment and irrigation reuse of wastewater and agricultural drainage water	Attilio Toscano (Massimo Puzzarini, Giuseppe Mancuso)	AGR/08 (07/C1)
Zantedeschi Sofia	PhD scholarship funded by UNIBO general budget	Food Science and Biotechnology	Sensory evaluation of food to foster sustainability	Tullia Gallina Toschi (Matilde Tura Enrico Valli)	AGR/15 (07/F1)

STAAA – Current PhD Students

Research topic	XXXVIII cycle	XXXVII cycle	XXXVI cycle	XXXV cycle	TOT.
1) Agronomy, Herbaceous Crops, Flowers and Vegetables Systems, Agricultural Genetics and Agricultural Chemistry	7	9	4	10	30
2) International Cooperation and Sustainable Development Policies	1	6		2	9
3) Microbial Ecology and Plant Pathology	2	2	2	1	7
4) Agricultural and Food Economics and Policy	4	6	4		14
5) Agricultural Entomology		1		1	2
6) Agricultural Engineering	7	2	1	2	12
7) Food Science and Biotechnology	6	4	4	3	17
8) Animal Science	1	4	4	3	12
9) Tree Production Systems, Fruit, Forest and Ornamental Trees and Grape	4	1	2	4	11
10) Water-Food-Energy-Sustainable Agriculture Nexus	13	5	6	6	30
TOT.	45	40	27	32	144

STAAA – Current PhD Students

COUNTRY OF ORIGIN



Nationality of foreign PhD students:
Algeria, Austria, Azerbaijan,
Cameroon, Chile, China, Cuba,
Ethiopia, France, India, Iran, Nigeria,
Pakistan, Portugal, Syria, Spain,
Tunisia and USA

Supervisors: n. 83 (75% of PhD
students are supervised by DISTAL
faculties not belonging to the
Academic Board)



STAAA – Co-tutorships

Collaboration with the China Scholarship Council

- A total of 18 PhD positions provided in the last 7 cycles for STAAA Course

Framework Agreements signed by UNIBO involving STAAA Course

- Universidad Nacional de Rosario (Argentina)
- National Chung Hsing University (Taiwan)
- European Bioeconomy University (University of Eastern Finland, University of Hohenheim, AgroParisTech, University of Natural Resources and Life Sciences, Wageningen University and Research)

Bilateral STAAA co-tutorships

Ingoing

- Universidade do Porto (Portugal) - Cristina do Vale Correia (36th cycle)
- Mediterranean Agronomic Institute of Montpellier (France) - Reem EL Khechen (38th cycle) - to be finalized
- The Graduate University for Advanced Studies, SOKENDAI (Japan) - Doua Zakaria (38th cycle) - to be finalized
- Universitat Autònoma de Barcelona (Spain) - Guido Evangelista (38th cycle) - to be finalized
- Universidade de Lisboa (Portugal) - Madalena Ramos (38th cycle) - to be finalized

Outgoing

- Universitat Autònoma de Barcelona (Spain) - Elisa Appolloni (35th cycle)
- University of Granada (Spain) - Federica Barbieri (35th cycle)



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6. Being a PhD student at Unibo

STAAA – Courses for A.Y. 2022/23

<https://phd.unibo.it/agricultural-environmental-food-sci-technology/en>



PHD PROGRAMME

AGRICULTURAL, ENVIRONMENTAL AND FOOD SCIENCE
AND TECHNOLOGY

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COURSES

The most recent version of the 2021-2022 Academic Year Schedule can be found here (this version was updated/posted on Dec, 6th, 2021). This page has been recently restyled thanks to the help of Martina Bordini and Francesco Cirone.



Due to pandemic outbreak, classes can be taught in blended mode, both in person and online.

Please note that the schedule and all courses are subject to change.

If you have any questions regarding the didactic programme, please contact Prof. **Francesco Spinelli** at francesco.spinelli@unibo.it



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

STAAA – Courses for A.Y. 2022/23

- **PhD compulsory courses:** about 135 hours; mandatory for everybody; attendance (at least 80%); but they can be taken the next year; proficiency (final test when required).

When: approximately from March to May 2023

- **Research topic specific courses:** about 15 hours; compulsory for each specific thematic area, but open as voluntary courses for the PhD candidates of other areas that do not foresee the course as mandatory.

When: approximately from May to June 2023

- **Elective courses:** other courses and seminars organized within and outside the PhD

When: along the year

STAAA – Courses for A.Y. 2022/23

- **Voluntary activities** (CV/subject specific and NOT COMPULSORY FOR EVERYBODY) have to be agreed with the supervisor and/or the CV responsible
- **Contact** for didactic activities: francesco.spinelli@unibo.it
- Please use your **@unibo.it** address for all the communications related to the PhD. You will receive ALL THE OFFICIAL COMMUNICATIONS on your **@unibo.it** address

STAAA – Academic Writing

- The course of Academic Writing is an advanced course aimed to provide specific writing skills so it requires **B1++** as minimum level of proficiency. It is not a usual language course and it is not aim to develop basic speaking and writing skills.
- The check their level of proficiency PhD candidates are expected to attend a mandatory test organized by the CLA (Centro Linguistico di Ateneo). The dates will be communicated in December or at the beginning of January (it depends on the CLA).
- Those who are not reaching a minimum level of **B1++** are recommended to improve their English language skills to attend the Academic Writing course during the second year.

STAAA – Compulsory Courses for A.Y. 2022/23

N.	Course	Hours	Hours Eco e Coop	Lecturer
1	Bibliographic services to support research	4	4	Silvia Muzzi and Marco Tagliavini
	Research evaluation	3	3	Davide Viaggi
	Copyright guide for thesis preparation	3	3	ABIS – Settore Biblioteca di Agraria “G. Goidanich”
2	Philosophy of science and research methodology	10	10	Marco Bittelli
3A	Writing and presenting a paper in biological and physicochemical sciences	4		Luca Corelli Grappadelli
	Setting up a research protocol	4		Luca Corelli Grappadelli
	How to present a paper in a scientific conference in biological and physicochemical sciences	4		Luca Corelli Grappadelli
3B	Writing a scientific paper in social and economic sciences		8	Stefano Targetti
	How to present a paper in a scientific conference in social and economic sciences		5	Luca Mulazzani
4	Statistics			
	Introduction to statistical methods with R	10	10	Marco Bittelli
	Basic statistics and experimental design in agri-food sciences	15	15	Martina Zappaterra
	Advanced regression methods	10	10	Maurizio Canavari
	Time Series Analysis with R	10	10	Marco Bittelli
	Introduction to spatial analysis and geostatistics with R	10	10	Gabriele Baroni
5	Research financing and project design in agricultural sciences	20	20	Davide Viaggi
6	Intellectual property rights, enterprise creation, and business plan	20	20	Maurizio Canavari/KTO
7	Academic Writing (TEST+courses)*	24	24	CLA

*The test is mandatory for all the PhD students: **16-22 January 2023**



STAAA – Compulsory Courses

Compulsory courses and seminars will be given in English.

Variations from the compulsory learning programme must be proposed by each tutor to the Scientific Committee and then approved.

PhD students are expected to attend at least to 80% of the course duration. Otherwise the course will not be considered as attended.

STAAA - Area compulsory courses

Area compulsory courses: will be given in English; about 15 hours; mandatory depending on the area, but open as voluntary courses for the PhD candidates of other areas that do not foresee the course as mandatory.

When: approximately from May to June 2023

More specific information with the new year. We are *currently completing the first year of Area compulsory courses.*

Anyway some info can be found on the website of the PhD.

STAAA – Specific mandatory courses for A.Y. 2022/23

N.	Course	Research topic									
		1-Agr	2-Coo	3-Pat	4-Eco	5-Ent	6-Ing	7-Ali	8-Zoo	9-Arb	10-Nx
1	Impact of biotechnology on production, safety and protection of sustainable agricultural products (6 h) – S. Salvi, L. Fontanesi, C. Ratti	6		6		6			6	6	
2	Geographical information systems (8 h) – D. Torreggiani					8	8				
3	Energy efficiency and sustainability of buildings for agriculture and agro-industry (7 h) – A. Barbaresi						7				
4	Climate change, agriculture and forest ecosystems: forcings, feedbacks and solutions for adaptation and mitigation (8h) – G. Falsone, M.R. Guerrieri, B. Morandi, F. Ventura	8		8						8	8
5	Food loss (5h) and waste (10h): reduction, management and valorization – T. Gallina Toschi, S. Tappi, L. Vannini, M. Vittuari		5		5			15			
6	Insights into animal nutrition and precision feeding (8 h)								8		
7	Introduction to spatial analysis and geostatistics for supporting precision agriculture (7 h) – G. Baroni										7
	TOTAL	14	15	14	15	14	15	15	14	14	15

28 February 2023 (3 hours, 10:00-13:00), it includes the following topics:

«Open Access and Open Science: university repository (PhD theses, Iris and Acta), open access obligation projects and funding»

Dr.ssa Marialaura Vignocchi



STAAA – Elective course 2022/23

6, 13, 20, 27 February 2023 (6 hours, 10:00-13:00:00, h. 15:00-17:00)

Imaging analysis

Dott. Marco Seracini, Dip. Fisica e Astronomia "Augusto Righi"



Outline

1. General information on STAAA PhD programme
2. Presentation of first-year PhD students
3. Teaching activities for A.Y. 2022/23
- 4. STAAA PhD programme framework**
5. PhD Student Representatives
6. Being a PhD student at Unibo

STAAA – Roadmap (38th Cycle)

	Event	Deadline
1° yr.	Evaluation form of the activities of the 1 st year	Sep 2023
	Admission to the 2 nd Year	Mid Oct 2023
2° yr.	Evaluation form of the activities of the 2 nd year	Sep 2024
	Admission to the 3 rd Year	Mid Oct 2024
3° yr.	Evaluation form of the activities of the 3 rd year	Aug 2025
	Admission to thesis reviewing phase (<i>reviewers and final exam board members and date must be appointed</i>)	Mid Sep 2025
	Electronic submission of thesis for external revision (2 reviewers)	Oct 2025
	Deadline for thesis review	Mid Dec 2025
	Decision of admission to final exam based on thesis evaluation	Jan 2026
final exam	Electronic submission of final version of the thesis	Mid Feb 2026
	Final exam	Mid Mar – Mid Apr 2026



STAAA – Requirements to Be Admitted to Thesis Review

You need to satisfy four requirements:

- Attending at least 80% of the compulsory courses
- Participate in a scientific congress with a contribution presented as oral communication
- Submit or publish at least 1 article on a journal with IF (preferably as first author) within the end of PhD career
- Period abroad of a minimum duration of 3 months* (with exception of foreign and industrial PhD-executive students)

* Additional requirements concerning internship abroad and in company are ruled for PhD students who are awarded with a position funded by M.D. 351 and 352/2022



STAAA – Special requirements for PhD students with positions funded by NextGenEU/NRPP (MD 351 & 352)

Applicants who are awarded with a position MD 351 and 352/2022 must:

- submit a report on a 6-month basis with the timesheet of their activities and a summary of the most important tasks. The reporting will be performed through an online platform using the template provided by MUR;
- complete the required mandatory periods of study and research as reported above:

PhD positions	Period abroad	Period in the company
NextGenEU/NRPP (MD351) – PA	Mandatory (min. 6 months, max 12 months)	Mandatory (min. 6 months, max 12 months) in companies, research centres and Public Administrations
NextGenEU/NRPP (MD351) – NRPP research		Optional
NextGenEU/NRPP & co-funded by companies (MD352)		Mandatory (min. 6 months, max 12 months) in the respective company which co-funded the PhD position

- guarantee the respect of the obligations in terms of communication and information, indicating in all the documents that the Programme is funded in the frame of the NRRP, with explicit reference to the funding by the EU and the NextGenerationEU initiative, including in the papers the EU logo, and also suitably share and promote the Programme – online and on social media – in line with what provided by the Communication Strategy of the NRRP;

Scholarship can be revoked in case of:

- The research project carried out is different from the project funded, where no prior request is sent nor approved by the MUR;*
- The PhD student fails to carry out the minimum period of study and research in the company or abroad.*

STAAA – Trainee Period Abroad

MOBILITY PROGRAMS

- 50% grant increase
- Marco Polo program (by DISTAL – not compatible with 50% grant increase)
- Other mobility programs (Erasmus+ traineeship, bilateral exchange programs, etc.)

Your period abroad must be authorized by the Academic Board: documents required are the invitation letter of the foreign institution and the forms properly filled in ([see instructions](#))

STAAA – Individual Research 10% Budget

Since the beginning of the 1st year, PhD students¹ have a right to an annual amount of € **1,624.30** dedicated to supporting their national and international research activities (see article [13.6 of the Regulation](#)).

At the beginning of the 2nd and 3rd year, the same amount is made available once more, and this is added to what remains of the amount awarded for research carried out in the previous years of study.

The 10% budget should be preferably used for covering travel expenses related to research periods and participation to courses/congresses in Italy and abroad.

Within DISTAL department, this budget must be directly provided by each own supervisor.

¹ For industrial Ph.D. students (employees of firms and bodies), 10% budget must be directly provided by the each own company/body.

STAAA – Compatible Activities

Some activities are not compatible with PhD programme enrollment/PhD scholarship (see [art. 14 Regulation](#)):

Any **external activities** with salary must be authorized by the Academic Board (form is available on [STAAA website](#)).

STAAA Course Website

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GENERAL INFORMATION FOR Ph.D.
STUDENTS

Once you are successful in your application, you will be required to **design a research and study plan** with your **supervisor** in order to start your project and the necessary steps to implement it. From time to time, you will need to update your research and study plan, taking into account the development of your work and the latest developments in your field of research. During the three years, you will have to attend regularly **classes and seminars** specifically



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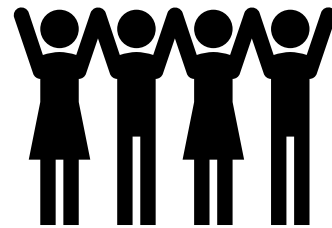
Outline

1. General information on STAAA PhD programme
2. Presentation of first-year PhD students
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- 5. PhD Student Representatives (Celeste Lazzarini & Mara Petruzzelli)**
6. Being a PhD student at Unibo

The faculty bodies in which we are active

Department Council includes all researchers (RTD-B and RTA-A), professors of the DISTAL and students' representatives. **It works on all departmental activities.**

Valentina Guerrieri
Martina Bordini



PhDs students



PhD Board includes **24 members** belonging to the Dept. covering all disciplines involved in PhD Programme.
It plans and manages the Ph.D. Programme

Mara Petruzzelli
Celeste Lazzarini



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Yearly activities and communications

FROM US:

- You might receive emails on general communications, didactic emergencies, etc.
- You will receive a specific email after each PhD board, with the report summarizing the topics of interest that were discussed;

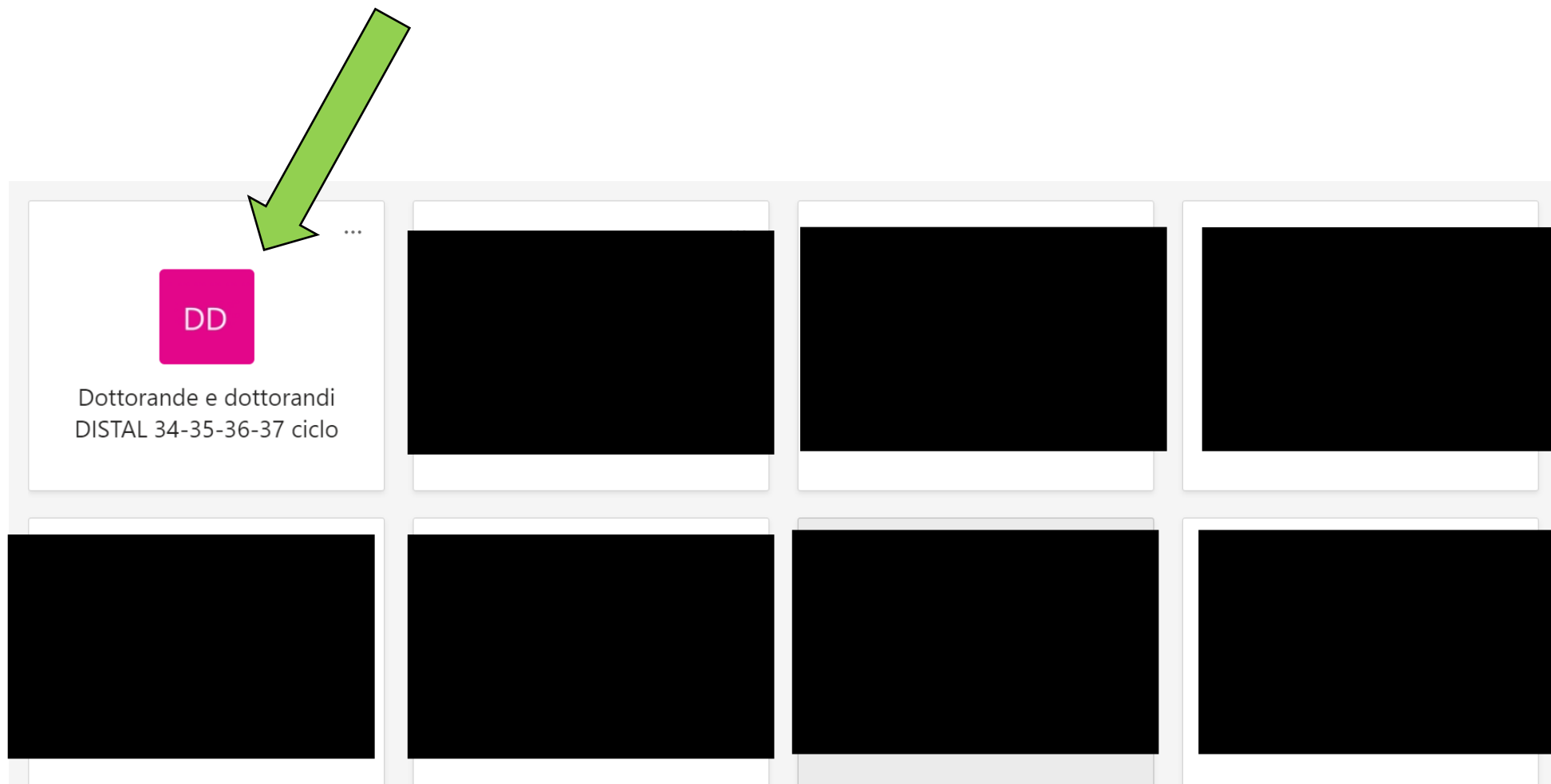
FOR US:

Feel free to contact us (mara.petruzzelli@unibo.it, celeste.lazzarini3@unibo.it) for suggestions, issues and communications related to the didactic, and academic career.



1-2 informal meetings (*or more in case of particular events*) per year to meet&cheers, wrap-up concerns of collective interest received via mail, exchange opinions and needs to be reported at the PhD Board.

Team (on Teams)



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Rules governing your PhD career

“Regulation Governing the PhD Programme Degrees” is a document that defines rights and duties of PhD students at Unibo and regulates the functioning of the Academic Board. Available for download [here](#).

Some information on deadlines and rules for PhD students is also available on the [Unibo Intranet](#) (very useful if you need to access information quickly, unfortunately, for now available in Italian only).

[Frequently Asked Questions](#) on the University Website are also a useful source of information.

E-mail address

Each doctoral student has two sets of credentials.

1. With name.surname@studio.unibo.it you can access:

- [Studenti Online](#) , where to pay fees and get certificates
- [ER.GO](#)

2. With name.surname@unibo.it you can access to all applications and information regarding your career including:

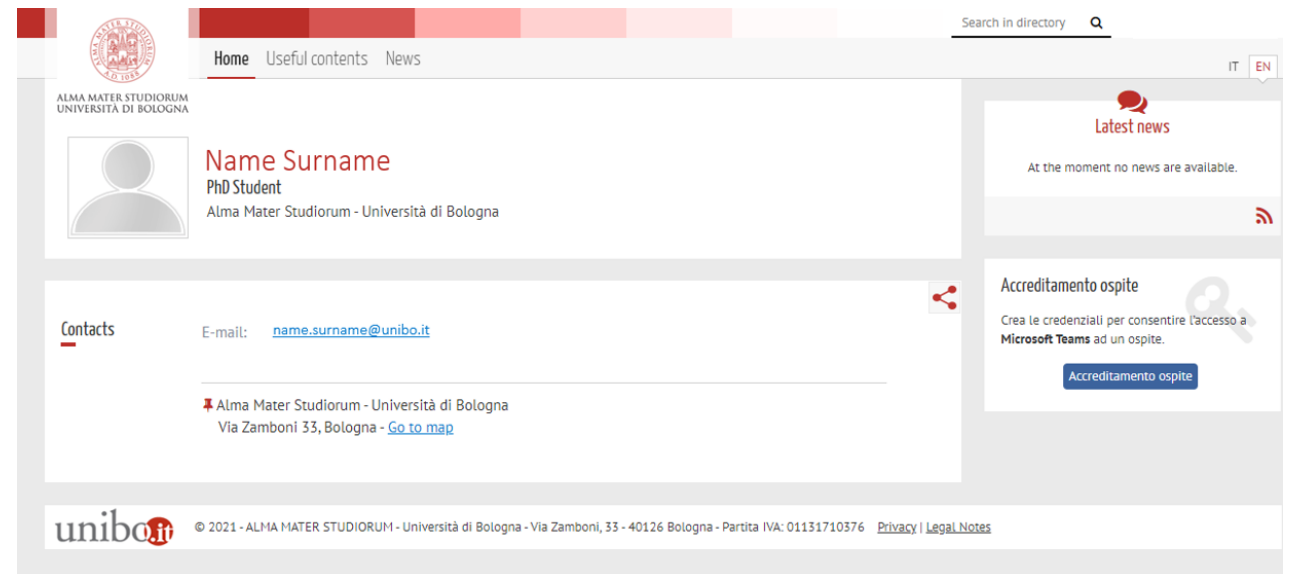
- **University Intranet**
- **CedoliniWeb** to manage your scholarship payments
- **All other websites as listed [here](#)**

Personal website

The University makes available to each PhD student a webpage for the publication of their Scientific CV and information related to the activities carried out in the University.

You can manage and modify your page [here](#)

It is available both in Italian and English



Let's talk about money

Fees, scholarships and funds

PhD students have to pay a yearly enrollment fee (157.04€ per Academic Year). Such fee covers insurance and the Regional Tax for Students.

Most PhD students receive a monthly scholarship which amount is about 1,130€. The scholarship is paid around the 25th day of each month.

Please log into [Cedolini Web](#) to obtain more information about the payment of your scholarship.

Please Note: For international PhD students who need a Permit of Stay, the payment of the first scholarship instalment is subject to the submission to our Office of an Italian Fiscal Code and the receipt of the request for the Permit of Stay.

Let's talk about money

Each PhD student can access a research fund that amounts to 10% of the gross yearly scholarship. The fund can be spent to cover the cost of research-related activities and materials. The fund is managed by the Department and your formal request should be sent to them. Its use must be previously authorized according to the Department regulations.

During the time spent abroad (visiting) for academic and research purposes, the scholarship is increased by 50%. The increase is granted only for periods abroad longer than one month and up to six. In order to receive this fund (if the Academic Board has authorized your stay abroad) you should write a request to our Office.

Visit the [dedicated intranet webpage](#) for more information.

Obligations for PhD Students

Attending the PhD programme is a full-time and exclusive commitment.

PhD students are required to carry out research activities and to attend the seminars and classes mandated by the Academic Board.

PhD students cannot spend more than 18 months abroad visiting.

PLEASE NOTE: NRRP (PNRR) PhD students have further obligations related to the nature of their scholarship. More information will be made available by the PhD Unit.

Executive PhD

The Executive PhD positions are ruled by an Agreement between the University of Bologna and the Institution/company where the PhD student works.

If you are enrolled in an Executive PhD:

- You will not be awarded a scholarship, but you will keep your work salary at the institution or company you work for.
- Usually, Executive PhD candidates are provided with Supervisor at the University and a co-supervisor at the Institution or company where they work.
- While you are enrolled in the Executive PhD programme, you cannot change your job contract, otherwise you will be excluded from the PhD programme.

Please note: Make sure of asking for the programme's agreement with its own specific regulations and requirements.

Working while doing a PhD

There are working activities that can be undertaken **only with the formal authorization of the Academic Board**, which evaluates if the activity is compatible with the attendance to the PhD programme.

For instance:

- Internship or apprenticeship of any kind
- Teaching assistance (*Tutorato*) for a maximum of 60 hours per Academic Year
- Other paid activities or jobs

Warning: carrying out any paid activity without the authorization of the Academic Board can result in the exclusion from the PhD programme



Incompatibility and non-accumulation regime

1. Enrolment to a PhD programme is not compatible with:

- a. the **concurrent enrolment** in another PhD programme, three- and four-year degree courses, and 1st and 2nd level University master degrees, including courses delivered by the Conservatories of music and dance, with the exception of the enrolment in PhD programmes covered by co-tutorship agreements and in single course units;
- b. the appointment as an adjunct lecturer responsible for **teaching or training** and language training modules at any University or Institutions awarding academic qualifications;
- c. activity deemed incompatible with the PhD programme by the Academic Board

2. Scholarships cannot be combined with:

- a. **other scholarships** awarded for whatever purpose, except those granted by national or international institutions, or institutions established in foreign Countries, aimed at financing periods spent abroad;
- b. the emoluments of **medical doctors under training**. Scholarship payments are suspended for the period in which the PhD candidate is also enrolled in a medical specialization school;
- c. **research grants**. Research grants holder, who are also awarded of a PhD scholarship, must irrevocably renounce either to the research grant or to the scholarship by the programme starting date;
- d. Paychecks from a **public administration**.

Suspension («freeze» your PhD career)

The suspension can be requested in the following circumstances:

- civil national service (Servizio Civile Nazionale).
- Serious illness duly attested by medical certificates.
- Serious and documented personal and family reasons.

Your PhD career is compulsorily suspended in the event of:

- maternity/paternity, adoption, and custody. In this case, the suspension is regulated by Italian law.
- Serious infirmity or illness, lasting more than 30 days.

During the suspension PhD students do not receive any scholarship and are not allowed to progress in their PhD career.

Suspension causes a postponement of the limit of the legal duration of the PhD career.

The total duration of the suspension and extension periods requested **must not exceed 18 months**.



Maternity leave

There is a mandatory suspension of 5 months according to the Italian law.

If PhD students suspend their career only for the mandatory period, the Academic Board can also decide not to postpone the legal duration of the PhD career.

Please note: Even if you are a working PhD student you should suspend your PhD career for at least 5 months.

You should give communication to our Office at least **2 months before** the expected due date.

Extension

The extension consists in a continuation of the PhD programme or a postponement of the deadlines for the submission of the PhD thesis.

There are two kinds of extensions:

- The extension of the duration of the PhD programme is granted by the Academic Board and is requested by the Supervisor for justified scientific needs. The extension can be applied for 1 to 12 months, and the scholarship is guaranteed.
- The extension of the deadlines for the submission of the PhD thesis can be requested by the PhD candidate for proven reasons and is granted by the Academic Board. This extension can have a maximum length of 12 months and does not include the scholarship extension.

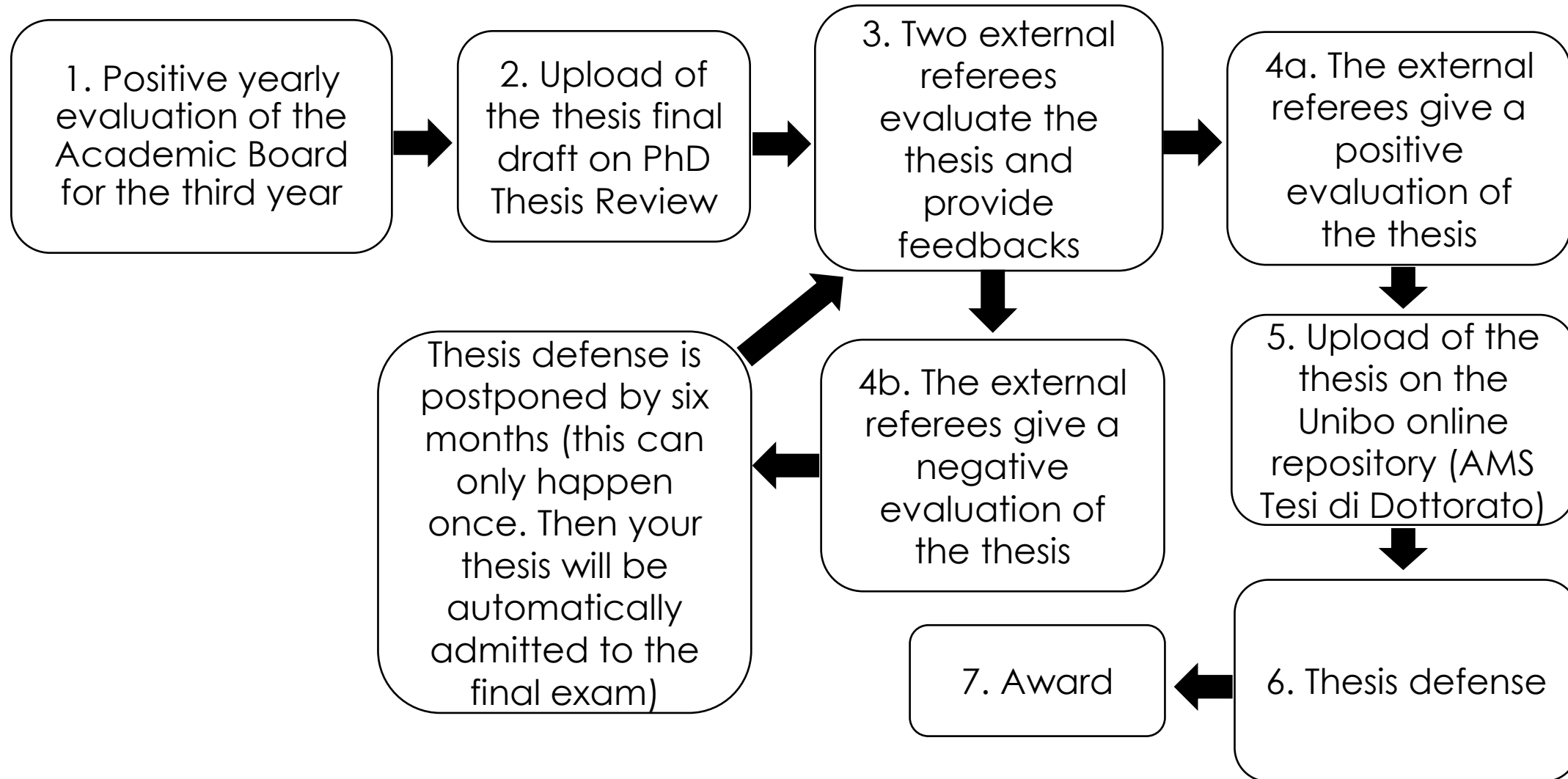
Expulsion / Forfeiture from a PhD Programme

The Academic Board can decide to expell PhD students from the programme because one of the following reasons:

- Major violations of the Unibo Regulations on PhD programmes
- Negative evaluation of the student's work and/or failure in meeting the academic deadlines mandated by the Academic Board
- For Executive PhD students: the end or the modification of their working contract

Warning: Expulsion can be decided at any time during the Academic Year

Final exam and awarding



Seems quite complicated...

If you have any question or are uncertain about what you are allowed or not allowed to do, please feel free to contact the PhD Unit at aform.udottricerca@unibo.it or carefully read the Unibo Regulations on PhD Programmes

Please remember that major violations of the rules may result in exclusion from the PhD programme

When in doubt, ask!

Thank you for your attention!

Where to find information

Enrolling, studying, graduating
Degree Programmes
Course unit catalogue
Professional Master's programmes
PhD programmes
Specialisation Schools
Post-graduate vocational training programmes
Summer and winter schools
International Education Projects
Teacher training
Innovation in teaching and learning

PhD programmes

The University of Bologna PhD programmes



- [University of Bologna PhD programmes](#)
- [Call for Applications for additional PhD positions on Innovation and Green topics](#)
- [Other phd programmes the University of Bologna is involved in](#)

How to apply for a PhD programme



- [How to apply for a PhD programme](#)
- [FAQ - Frequently Asked Questions on the PhD Call for applications and selection procedures](#)
- [Regulation Governing the PhD Programme Degrees \(Third Cycle Programme\)](#)
- [Charter of PhD Services](#)

ATTACHMENTS

[PhD Programmes brochure](#)
[.pdf 525 KB]

CONTACTS

AFORM - SETTORE DOTTORATO DI RICERCA

FRONT OFFICE ADDRESS
Palazzo Hércolani - Strada Maggiore 45,
40126 Bologna

POST ADDRESS
Via Zamboni 33, 40126 Bologna

Due to the current pandemic situation and the provisions into force, the front office is currently available by appointment only. After having booked your appointment by e-mail, you will be able to access our offices only if you need to:

- submit urgent documents regarding career-related activities,
- collect parchments and/or signed original certificates.

Remember that you need to wear a face mask to access the premises.

aform.udottricerca@unibo.it

Tel: +39 051 2094620

Office hours
TELEPHONE HELP DESK OPENING HOURS
Wednesday: 9 am - 11:15 am
Thursday: 2:30 pm - 3:30 pm



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