

PHD PROGRAMME IN	Cultures, Literatures, Rights, Tourism and Territory
PROGRAMME COORDINATOR	Prof. Carla Bassu – carlabassu@uniss.it
DURATION	3 years
TRAINING GOALS	PhD students in the PhD Programme in Cultures, Literatures, Rights, Tourism and Territory will have to: - develop a theoretical-critical instrumentation adapted to the complex cultural and social scenario generated by globalisation, going back to its social and linguistic cultural roots, in the context of pluralist democracy; - critically examine the transnational dynamics of today's knowledge society and at the same time oppose the uncritical homologation of contemporary reality, drawing on the cultural wealth of the territory and the memory of the past, also in function of a collaboration with companies, local authorities and communities in the perspective of democratic social order; - increase their linguistic, sociological and literary knowledge with a view to broadening their research horizons and international mobility; - provide skills for the use of new research methods through new technologies; - develop skills and research methodologies in relation to cultural activities linked to the territory with a view to economic enhancement; - develop skills relating to technological tools for analysing spatial data
RESEARCH FIELDS (SSD)	CEAR-04/A - Geomatics GIUR-11/B - Comparative public law ARCH-01/A - Prehistory and protohistory STAN-01/B - Roman history ARTE-01/C - Contemporary art history ARTE-01/D - Museology and art and restoration criticism PEMM-01/B - Cinema, photography, radio, television and digital media FLMR-01/A - Medieval and humanistic Latin literature FLMR-01/B - Romance philology and linguistics ITAL-01/A - Italian literature LICO-01/A - Contemporary Italian literature LIFI-01/B - Philology of Italian literature FRAN-01/A - French literature FRAN-01/B - Language, translation and French linguistics SPAN-01/A - Spanish literature SPAN-01/C - Spanish language, translation and linguistics ANGL-01/A - English literature ANGL-01/C - English language, translation and linguistics GERM-01/B - German literature GERM-01/C - Language, translation and German linguistics SLAV-01/A - Slavistics PHIL-04/B - Philosophy and theory of languages

	GEOG-01/A - Geography GEOG-01/B - Economic-political geography PAED-01/B - History of pedagogy and education PSIC-03/A - Social psychology GSPS-05/A - General sociology
SELECTION	Qualifications, research project and interview (30+20+50)
SCHOLARSHIPS (Distinguished by administrative category)	<u>1 place without scholarship</u> - Topic: Tourism and digital transformation: governance models and data-driven tools for spatial planning
RESEARCH TOPICS FOR PHD RESEARCH PROJECT AND INTERVIEW	The same topic already indicated for the scholarships should be used
DIRECTIONS REGARDING THE WRITING OF THE RESEARCH PROJECT	Maximum of three folders excluding bibliography
INTERVIEW	In-person or online, at the candidate's choice

PHD PROGRAMME IN	Economics, Management and Quantitative Methods
PROGRAMME COORDINATOR	Prof. Andrea Carosi – acarosi@uniss.it
DURATION	4 years
TRAINING GOALS	The PhD program in Economics, Management, and Quantitative Methods (EMQM) at the University of Sassari is a four-year advanced training course that combines a solid theoretical foundation in economics and business studies with rigorous quantitative preparation. The program is structured in two main phases: an initial phase of advanced coursework aimed at developing strong analytical, theoretical, and empirical skills, followed by a research phase focused on the writing of the doctoral dissertation. The dissertation must demonstrate the candidate's ability to conduct original and independent research at a high academic standard. Thanks to its interdisciplinary approach, the wide range of courses offered, and a strong emphasis on innovative methodologies, the EMQM PhD program fosters the development of original intellectual profiles with cross-cutting skills, capable of analyzing the complex dynamics of firms and markets. The program provides advanced, specialized training in economics and management, with particular focus on the application of mathematical, statistical, and computational models in these disciplines. Its overarching aim is to prepare researchers who are equipped to face future challenges, particularly by responding to the growing demand for digital, technical, and scientific skills that are increasingly crucial in academic, professional, and institutional contexts.
RESEARCH FIELDS (SSD)	GEOG-01/B - Economic-political geography ECON-01/A - Political economy ECON-02/A - Economic policy ECON-06/A - Business administration ECON-07/A - Economics and business management ECON-09/A - Business finance ECON-09/B - Economics of financial intermediaries STAT-03/A - Demography STAT-03/B - Social statistics STAT-04/A - Mathematical methods of economics and actuarial and financial sciences
SELECTION	Qualifications, Research Project and Interview, in English (30+20+50)
SCHOLARSHIPS (Distinguished by administrative category)	<u>n. 1 scholarship funded by University of Sassari</u> - Topics: candidates must submit a research project on a topic consistent with the areas of interest of the course (SSD). <u>3 scholarships funded by the Autonomous Region of Sardinia under the Sardinia ESF+ 2021-2027 Regional Programme (Line A)</u> - Topics: candidates must submit a research project on a topic consistent with the areas of interest of the course (SSD).
RESEARCH TOPICS FOR PHD RESEARCH PROJECT AND INTERVIEW	1 - Economics (Microeconomics, Macroeconomics, Econometrics); 2 - Management (Financial Accounting, Business Administration, Public Management, Corporate Finance, Banking, Marketing); 3 - Quantitative Methods (Applied Mathematics, Applied Statistics).
DIRECTIONS REGARDING THE WRITING OF THE RESEARCH PROJECT	The research project must be in English. The research project must be presented, in English, during the interview, with the aid of a presentation

	with slides (max. 10 slides). As a guide, the project and presentation must have the following structure: - Introduction and related literature; - Motivation; - Data and Methodology; - Expected or Preliminary Results; - Conclusion and expected contributions.
INTERVIEW	Online

PHD PROGRAMME IN	Life Sciences and Biotechnologies
PROGRAMME COORDINATOR	Prof. Daria Sanna – dsanna1@uniss.it
DURATION	3 years
TRAINING GOALS	The PhD Course in Life Sciences and Biotechnologies, promoted by professors belonging to three Departments of the University of Sassari, intends to propose itself as a center of advanced training, open to young Italian and foreign graduates, with the following objectives: to offer high scientific qualification in both basic and applied research; to develop aptitude for national and international scientific cooperation; to stimulate the ability to research independently both in terms of scientific understanding and technological spin-offs of the research topics studied. It aims to offer structured educational activities and research projects that are broadly interdisciplinary in order to foster interactions and knowledge exchanges between rapidly growing fields such as modern biological and biomedical sciences, as well as to promote theoretical-experimental cultural training and multiple interactions with national and international laboratories with the goal of enabling students to engage with other study and research realities while increasing employment opportunities, even beyond the academic sphere
RESEARCH FIELDS (SSD)	BIOS-03/A - Zoology BIOS-05/A - Ecology BIOS-06/A - Physiology BIOS-07/A - Biochemistry BIOS-08/A - Molecular Biology BIOS-09/A - Clinical Biochemistry and Clinical Molecular Biology BIOS-12/A - Human Anatomy BIOS-14/A - Genetics BIOS-15/A - Microbiology IINF-04/A - Automatics IBIO- 01/A - Bioengineering MEDS-02/A - General pathology MEDS-03/A - Clinical microbiology and microbiology MEDS-05/A - Internal medicine MEDS-09/C - Rheumatology MEDS-12/A - Neurology MEDS-19/A - Diseases of the musculoskeletal system MVET-03/A - Infectious diseases of animals
SELECTION	Qualifications and interview (30+70)
SCHOLARSHIPS (Distinguished by administrative category)	<u>No. 1 scholarship co-funded by the University and the Department of Biomedical Sciences</u> - Topic: The PhD student will study the interactions between wild mammal species and how they vary in different ecological conditions, using

	camera trapping techniques. Their work will involve acquiring new data on species presence and making use of data already available from a network of monitoring sites belonging to the European Observatory of Wildlife (www.wildlifeobservatory.org). The data will be collected using multi-species protocols and processed to obtain quantitative estimates of the presence, relative abundance, activity and behaviour of the target species. The research results will be useful for the management and conservation of the species and their habitats, as well as for preventing the spread of pathogens transmissible to domestic animals and humans. <u>No. 1 scholarship funded by the University of Sassari</u> - Topic: Bioinformatic analyses applied to the study of genetic and genomic variability of viruses with epidemic potential from a One Health perspective; <u>No. 1 place without scholarship</u> - Topic: The primary objective of the future PhD student's research will be to understand how different management strategies – including intensive fishing, targeted removal, no intervention, restocking, etc. – both in areas subject to “invasion” and in areas of natural spread – influence genetic variability in alien aquatic species of commercial interest. The approach will be multi-species, with a focus on invasive species in the Mediterranean area. At the same time, the research will address the bioethical dilemmas associated with wildlife management, from the intentional reduction of genetic diversity in invasive species to the unintended risks of genetic impoverishment in native populations on which IAS insist. Particular attention will also be paid to the different policies in the Mediterranean area with regard to the management of IAS considered in the project.
RESEARCH TOPICS FOR PHD RESEARCH PROJECT AND INTERVIEW	The same topics already indicated for scholarships must be used
DIRECTIONS REGARDING THE WRITING OF THE RESEARCH PROJECT	The research project must be no longer than 2 pages
INTERVIEW	Online

PHD PROGRAMME IN	Agricultural Sciences
PROGRAMME COORDINATOR	Prof. Severino Zara – szara@uniss.it
DURATION	3 years
TRAINING GOALS	The course aims to train highly qualified PhDs capable of meeting the demand for research and development in the fields of: (i) agrometeorology and plant ecophysiology; (ii) productivity of agricultural crops; (iii) management and protection of agricultural and forestry production systems; conservation, protection and enhancement of natural resources; (iv) biotechnology aimed at regional, national and international production needs; v) breeding and reproduction techniques, nutrition and feeding, applied genetics and selection of zootechnical animals also with the use of molecular biology techniques, quality and safety of food products of animal origin. (vi) The study of forms of land degradation, understood as actual or potential loss of land productivity or utility due to natural or anthropogenic factors affecting food production and security, livelihoods, production and provision of other ecosystem goods and services. (vii) Factors and forces leading to land degradation and desertification. In the three years PhD students acquire the scientific method and the skills necessary for preparing experimental designs, conducting experimental plans and laboratory activities, mathematical-statistical data processing, evaluating statistical-experimental inferences and disseminating research results.
RESEARCH FIELDS (SSD)	AGRI-01/A - Agricultural, food and rural economics AGRI-02/A - Agronomy and herbaceous crops AGRI-03/A - General arboriculture and tree crops AGRI-02/B - Horticulture and floriculture AGRI-03/B - Forestry, planning and forest ecology AGRI-06/A - Agricultural genetics AGRI-04/A - Agricultural hydraulics and hydraulic-forestry systems AGRI-04/B - Agricultural mechanics AGRI-04/C - Rural construction and agroforestry land AGRI-05/A - General and applied entomology AGRI-05/B - Plant pathology AGRI-06/B - Agricultural chemistry AGRI-06/C - Pedology AGRI-07/A - Food science and technology AGRI-08/A - Agricultural microbiology, food and environmental AGRI-09/A - General animal husbandry and genetic improvement AGRI-09/B - Animal nutrition and feeding AGRI-09/C - Special animal breeding AGRI-09/D - Zoocultures

	BIOS-01/A - General botany BIOS-01/B - Systematic botany BIOS-01/C - Environmental and applied botany BIOS-02/A - Plant physiology BIOS-03/A - Zoology PHYS-02/A - Theoretical physics of fundamental interactions, models, mathematical methods and applications GSPS-05/A - General sociology
SELECTION	Qualifications and interview (30+70)
SCHOLARSHIPS (Distinguished by administrative category)	Curriculum in Desertification and Land Degradation <u>n. 1 scholarship funded by ISPRA (Istituto Superiore per la Protezione e la Ricerca Ambientale - Higher Institute for Environmental Protection and Research)</u> - Topic: Innovative technologies for assessing soil degradation and desertification in Mediterranean areas
RESEARCH TOPICS FOR PHD RESEARCH PROJECT AND INTERVIEW	The same topics already indicated for the scholarships should be used . Information about the PhD programme: The PhD program's primary objective is to enhance the ability to formulate and design soil analysis and policy tools through the development and implementation of an innovative diagnostic framework of land degradation and desertification for Mediterranean areas. This tool will utilize innovative technologies to analyze the factors that determine soil degradation and desertification processes, as well as the factors relevant to potential mitigation and recovery strategies. Specifically, the research will focus on the development of indicators, models, and procedures for assessing soil degradation and desertification through the use of innovative technologies applied to satellite and soil monitoring data. The ultimate goal is to provide useful tools to support understanding of these phenomena and the definition of measures at different spatial scales that are more effective, sustainable, and consistent with contemporary environmental and socioeconomic challenges.
DIRECTIONS REGARDING THE WRITING OF THE RESEARCH PROJECT	
INTERVIEW	In person or online, at the candidate's discretion