

50 UNIPhD Fellows funded

PhD Course	Research Topic	Surname	Name	Call for applications A.Y.	Project Title
Brain, mind and computer science	Neuroscience, technology, and society	Andriushchenko	Ekaterina	2023/2024	When things look a bit off: Contextual biases in perception and visual working memory
Molecular sciences	Advanced targeted drugs and drug delivery systems	Arikibe	Joachim Emeka	2022/2023	Innovative systems for targeted nucleic acid-based drug delivery
Mechatronic and product innovation engineering	Innovative materials in future design of lightweight and sustainable products	Asghar	Osama	2022/2023	Development of innovative and tailored aluminum alloys for sustainable mobility
Molecular sciences	Nanochemistry for Energy and Health	Banakar	Vijay Basavaraj	2022/2023	Light-Responsive Active Materials for Pattern Formation and Drug Release
Information engineering	Environmental sensing through millimeter wave radios	Bhalli	Zaman	2022/2023	Human motion tracking and analysis by applying signal processing and deep learning imaging techniques to mm-wave radar data
Management engineering and real estate economics	Innovation of new product and services development	Cai	Furong	2023/2024	Entrepreneurship for future: New knowledge-based models to face complexity and sustainability
Pharmacological Sciences	Pharmacologic and environmental modulation of biological aging	Çelik	Dilek	2022/2023	Epigenetic Basis for Low Body Mass at Birth and Sarcopenia in Old Age
Sciences, technologies and measurements for space	Study and development of sensors and instrumentation for measurements	Chen	Zechao	2022/2023	Multiphysics modelling of thermal cracks in multiphase heterogenous porous materials
Clinical and experimental oncology and immunology	Genetic susceptibility to cancer	Darbandi	Arezo	2022/2023	Identification of new microRNA- and redox-based strategies to treat T-cell malignancies
History, criticism and preservation of cultural heritage	Historical landscapes: between research and sustainable management	Desarbre	Romane	2022/2023	Windows and light in Roman housing in Italy (IInd century B.C.- 1st century A.D.)
Psychological sciences	Promoting development and well-being from early infancy to adulthood	Galán Vera	Ingrid Zügey	2022/2023	Evaluation of the effects of protective factors against anxiety and depression in children with autism spectrum disorder (ASD)
Physics	Physics of the universe, from the micro to the macrocosmos	Gavrikov	Arsenii	2022/2023	Neutrino Mass Ordering Determination with the JUNO experiment first data
Biosciences	From basic research in plant and animal biology towards biotechnological improvement and sustainable development	Ghirardello	Giulia	2022/2023	Harnessing plant-bacteria interactions to improve plant health
Social sciences	Science, technology and innovation in the societies of the future	Gonzalez Acero	Lorena Xiomara	2023/2024	Taming imagined anxieties: quantum communication and the role of emerging technologies in the assembling of future entanglements
Brain, mind and computer science	Computer science and innovation for societal challenges	Hassan	Ahmad	2022/2023	CONVEY: Complex Attacks to Connected Autonomous Vehicles Resiliency Measures Against cyberattacks
Management engineering and real estate economics	Innovations of operations and technology management	Hussain	Adnan	2022/2023	Linking Sustainable Business Models & Open Innovation for digital transformation in the wake of Industry4.0
Astronomy	Galaxies and cosmology	Ikhsanova	Alina	2022/2023	When galaxies die: tracing galaxy evolution in last 7 Gyrs through stellar populations
Mathematical sciences	Arithmetic and Complex Algebraic Geometry	Jaztar Singh	Ishan Singh	2022/2023	Moduli of curves, tautological relations and cohomological field theories
Biomedical sciences	Mitochondria between degenerative diseases and cancer	Kachappilly	Neha	2022/2023	The Mitochondrion at the Centre of Alzheimer's Disease Pathogenesis: Role in Neuroinflammation



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Arterial hypertension and vascular biology	Detection of secondary arterial hypertension: focus on primary aldosteronism	Khatoon	Narjis	2023/2024	Exploring the Molecular Mechanisms of Primary Aldosteronism: A Study of Secondary Hypertension
Psychological sciences	Innovative methods or technologies for assessment, intervention, or enhancement of psychological functions (cognitive and emotional)	Khodami	Mohammad Ahsan	2022/2023	Applying Alertness Training to improve Visual Processing Speed in patients with neurodegenerative disorders and brain injuries
Linguistic, philological and literary sciences	Linguistic change in morphology, syntax and phonology	Kildeeva	Albina	2023/2024	Structural and Functional Change of Free Indirect Speech in English, German and Russian Languages on the Material of Novels of the 20th and 21st Centuries.
Industrial engineering	Industrial and environmental energy sustainability	Kostelac	Lorena	2022/2023	Hybrid nanocomposites as anticorrosive additives in waterborne paints
History, criticism and preservation of cultural heritage	Transdisciplinary and innovative approaches to cultural heritage	Koutouvaki	Eirini	2022/2023	From macro to micro: advanced and experimental methods for the analysis of finishing techniques and post-firing treatments on ancient ceramics
Geosciences	Deep Earth's volatile cycle: processes, fluxes and metasomatism	Krona	Mikaela Emma	2023/2024	Carbon cycling in the deep crust
Linguistic, philological and literary sciences	Linguistic change in morphology, syntax and phonology	Maerlaender	Sabine Ruth	2023/2024	Si and its companions: looking for the thread unifying all its uses across Romance
Biosciences	Molecular mechanisms of diseases	Merteroglu	Munise	2022/2023	Defining the transcriptomic landscape of metastatic melanoma progression
Management engineering and real estate economics	Innovation of new product and services development	Moradi	Behrooz	2023/2024	Gamification in business: learning approaches, knowledge construction and related technology
Biomedical sciences	Effects of exercise and inactivity in controlling the mitochondrial network and neuromuscular junction	Motanova	Evgeniia	2022/2023	Effects of exercise and inactivity in controlling the mitochondrial network and neuromuscular junction
Arterial hypertension and vascular biology	Hyperaldosteronism and atrial fibrillation	Mustafa	Atta Ul	2023/2024	Exacerbation of Atrial Fibrillation in Human Aldosterone synthase -Transgenic mouse model with transient occlusion of Middle Cerebral Artery (MCAo)
Geosciences	Deep Earth's volatile cycle: processes, fluxes and metasomatism	Novais Rodrigues	Eduardo	2023/2024	Origin, depth and age of super-deep diamonds
Crop science	Role of the epigenome in integrating environmental cues with developmental signal in food crops	Ordoñez Trejo	Eduardo Javier	2022/2023	The effect of the use of a controlled atmosphere in the mitigation of chilling injuries in coldstored peaches (<i>Prunus persica</i> L. Batsch)
Philosophy	Natural Objects and artifacts. Topics in Analytic Metaphysics and Semantics	Peri	Carla	2023/2024	Identity Criteria for Strongly Indiscernible Objects
Translational specialist medicine "G.B. Morgagni"	Translational research in arrhythmogenic cardiomyopathies: from animal models to clinics	Perumal Vanaja	Induja	2022/2023	Illuminating the mechanisms of fatal arrhythmias in Arrhythmogenic Cardiomyopathy
Clinical and experimental oncology and immunology	Immunology of tumors	Pherez Farah	Alfredo	2022/2023	UNRAVELING DIFFUSE LARGE B-CELL LYMPHOMA MICROENVIRONMENT
Animal and Food Science	Sustainability of livestock production systems (animal welfare, agroecology and biodiversity)	Ramirez Mauricio	Marco Aurelio	2022/2023	Omics integration and fine phenotyping in dairy cattle breeding to improve sustainability
Physics	Quantum- Bio- and Physics of complex systems: applications in data science, material science and living systems	Reinić	Nora	2022/2023	Tensor Networks for Rydberg Atom Quantum Computing
Pharmacological Sciences	Development of gerosuppressants and senolytic compounds for the treatment of aging and aging-related disorders	Sarill	Miles	2022/2023	Characterizing the anti-aging and senolytic effects of <i>Salvia haenkei</i> and related botanicals: identification of active constituents, mechanisms of action and putative clinical uses
Land, environment, resources and health	Ecosystem services at regional scale in the EU bio-economies	Sealy Phelan	Aisling	2022/2023	Greencare CES



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Crop science	Global change and trophic interactions in agricultural and forest systems	Serra	Guillaume	2022/2023	The effect of abiotic stresses on the multi-trophic interactions involving predatory mites under a global change scenario
Sciences, technologies and measurements for space	Study, development, realization and scientific utilization of aerospace instrumentation and systems	Shafiei	Zahra	2022/2023	Addictive manufacturing for the development of a sustainable aerospace industry
Mathematical sciences	Nonlinear differential equations and stochastic models	Shishmintsev	Denis	2022/2023	Necessary optimality conditions for state constrained control problems
Information engineering	Wireless communications and machine learning for mission-critical applications	Sohail	Muhammad	2023/2024	Communication and Sensing for Autonomous Vehicles and Improved Road Safety: A Machine Learning Based Approach Utilizing Radar and Camera Sensor
Mechatronic and product innovation engineering	Advanced mechatronics technologies for future competitive industrial and logistics systems under the digital change	Stojanović	Lazar	2022/2023	Advanced control of grid-connected converters for renewable energy sources
Animal and Food Science	Food authenticity and quality (phenotypic, genetic and genomic aspects)	Thakare	Aditi Padmakar	2022/2023	Genome based approaches for genetic authentication of food products and high-resolution microbiome profiling for food quality evaluation
Land, environment, resources and health	Projected changes in flood occurrence at convection-permitting scale across an alpine transect	Vohnický	Petr	2023/2024	Relationship between future changes in extreme precipitation and flooding for extreme events.
Industrial engineering	Industry 4.0 and industrial bioengineering	Vyas	Yash Janardhan	2022/2023	AeRoBalance - Development and validation of a new dynamically balanced aerial manipulator
Geosciences	Interdisciplinary studies of the geology and mechanics of natural and human-induced earthquakes	Wu	Wei-Hsin	2022/2023	Experimental studies of fluid-rock interaction and seismic cycle in geothermal fields
Linguistic, philological and literary sciences	Modern and contemporary comparative literatures	Zhang	Qiyue	2022/2023	Anglo-American Science Fiction in Italy: the Translation Phenomenon and the Italianization Process 1952-2021
Astronomy	Star and planet formation and evolution	Ziliotto	Tuila	2022/2023	Multiple stellar populations in Globular Clusters: exploring the low mass regime

