



1. PLACES and ASSESSMENT PROCEDURES – PhD Programme in LAW FOR INNOVATION IN THE EUROPEAN LEGAL SPACE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 24, 2026
	Time	09:30 AM (CEST)
	Place	University of Udine, Department of Legal Sciences (DISG) - Alfa Room, via Tomadini, 3 - 33100 Udine ITALY
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 3

Detailed description	N.	Type	Funding	Gross annual amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 3	3	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine	€ 16.243,00	max 6 months optional	Area A

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
Programmes in all the subjects of the SSDs on which the oral examination will focus (Chancellor's Decree n. 287/2026 – Table 1).



2. PLACES and ASSESSMENT PROCEDURES – PhD Programme in COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 22, 2026
	Time	08:30 AM (CEST)
	Place	Department of Mathematics, Computer Science and Physics (DMIF) - Sala Riunioni – via delle Scienze 206, 33100 Udine https://www.dmif.uniud.it/il-dipartimento/sedi/
	The oral test consists of completing an initial written test and attending a subsequent interview. The initial written test will be held at the same time for all candidates (start time 8:30 a.m. Italian time). Thereafter, the order of convocation for each candidate's interview will be scheduled. Interviews can also be organized over several days. The oral examination (written test and interview) may be taken remotely upon motivated request and in accordance with the provisions of the call. Detailed instructions on the organization of the oral examination will be communicated to the admitted candidates. To take the tests, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 14

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 11	5	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 19.367,00	max 6 months optional	Area A
	5	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	Partner Institution: Fondazione Bruno Kessler (Trento)	€ 19.367,00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Data Science & Artificial Intelligence Foundation ETS (Trieste)*	€ 19.367,00	max 6 months optional	Area C
Places WITHOUT SCHOLARSHIP: 1	1	Chancellor's Decree n. 287/2026 art. 10 p. 4 lett. a)	University of Udine - Department of Mathematics, Computer Science and Physics	-	max 6 months optional	Area D

*Scholarships funded by "External Institutions" and Partner institutions are awarded only after the agreement concerning the funding has been successfully completed or after a decree granting the funds or approving the operation has been issued (Chancellor's Decree n. 287/2026 art.13 p.7).

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 2)
Area B – Funder: Fondazione Bruno Kessler (https://dicenter.fbk.eu/phd-iai-uniud-2026)
AI-enhanced LiDAR-driven analyses for detecting sub-canopy archaeology feature
Generative Agentic AI approaches for requirements engineering and testing
Formal verification of Configurable Safety-Critical Systems
Verification and Analysis Techniques for Epistemic Runtime Monitoring with Extended Temporal Logics
Hybridization of automated temporal planning and scheduling
Area C – Funder: External funding: Data Science & Artificial Intelligence Foundation ETS
In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 2)
Area D – Funder: University of Udine - Department of Mathematics, Computer Science and Physics (DMIF)
Episodic Memory in Computer Vision



3. PLACES and ASSESSMENT PROCEDURES – PhD Programme in INDUSTRIAL AND INFORMATION ENGINEERING

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule		
Oral examination	Date	June 22, 2026
	Time	09:00 AM (CEST)
	Examination procedures	Online
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 10						
Detailed description	N.	Type	Funding	Gross Annual amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 9	5	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 19.367,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Project HEU ERC STG, Project acronym BREAKDOWN, Project number: 101162848 CUP G23C24001880006	€ 19.367,00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: University of Udine - Polytechnic Department of Engineering and Architecture	€ 19.367,00	max 6 months optional	Area C
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: University of Udine - Polytechnic Department of Engineering and Architecture	€ 19.367,00	max 12 months optional	Area D
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: University of Udine - Polytechnic Department of Engineering and Architecture	€ 19.367,00	max 12 months optional	Area E
Places WITHOUT SCHOLARSHIP: 1	1	Chancellor's Decree n. 287/2026 art. 10 p. 4 lett. a)	External funding: University of Udine - Polytechnic Department of Engineering and Architecture	-	max 6 months optional	Area F

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
In line with the research topics of the PhD programme (Rector's Decree n. Chancellor's Decree n. 287/2026 – Table 3)

<p>Area B – Funder: PROGETTO HEUROPE ERC_2024_STG - Wide-ranging Probabilistic Physics-guided Machine Learning Approach to Break Down the Limits of Current Fatigue Predictive Tools for Metals - BREAKDOWN - GAP101162848 - CUP G23C24001880006 – Scientific Coordinator: prof. Enrico Salvati.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: center;"> <p>Funded by the European Union</p> </div>   </div> <p>Research topic: Modeling the fatigue behavior of metallic alloys using Physics-Based and Machine Learning approaches</p>
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3. PLACES and ASSESSMENT PROCEDURES – PhD Programme in INDUSTRIAL AND INFORMATION ENGINEERING

The doctoral research project involves the development and validation of predictive models for estimating the fatigue life of metallic materials. It is part of a broader project funded by the European Research Council (ERC), entitled “*Wide-ranging probabilistic physics-guided machine learning approach to break down the limits of current fatigue predictive tools for metals (BREAKDOWN)*”. The numerical techniques and theoretical approaches developed will be validated through experimental results obtained in collaboration with researchers currently involved in the BREAKDOWN project. Strong skills in solid mechanics, fracture mechanics, and programming are required, as they are essential for interpreting results and developing reliable predictive models.

Area C – Funder: University of Udine - Polytechnic Department of Engineering and Architecture

Research topic: Power supply architectures for XPU processors (CPUs and GPUs) in data centers for artificial intelligence applications

The research focuses on power distribution in AI data centers, which are characterized by extremely high-power densities (up to megawatts per rack) due to the intensive use of GPUs and accelerators. These scenarios challenge traditional alternating current (AC) architectures with multiple conversion stages, highlighting the need for more efficient and scalable solutions. The objective is therefore the development of innovative power supply architectures, with particular emphasis on optimizing energy conversion chains. The research activity will focus on the analysis and development of innovative circuit topologies for power conversion close to the processor (point-of-load), with the aim of improving overall efficiency, reducing losses, and ensuring high levels of reliability and performance in XPU systems.

Area D – Funder: University of Udine - Polytechnic Department of Engineering and Architecture

Research topic: System and digital design of Multiplying Delay Locked Loops (MDLL) in nanometer CMOS technology

Ring Oscillator (RO)-based frequency multipliers offer reduced area footprint and better scalability compared to LC-based ones. However, to overcome their poorer power-to-phase-noise performance, Multiplying Delay Locked Loops (MDLL) have been proposed. The Ph.D. activities will therefore include: literature review on MDLLs and ROs; circuit design and simulation (Cadence, Mentor Graphics) of innovative MDLL architectures; estimation of power consumption and area; support for the fabrication of nanometer CMOS prototypes; experimental characterization of the prototypes; verification of consistency between models and experimental data; identification of bottlenecks and design optimization. The project will be carried out in close collaboration with the industrial partner Infineon Technologies as far as the fabrication and characterization of fully MDLL prototypes are concerned, to validate the adopted design strategies and the correlation between simulations and hardware to meet the design specifications accurately. For this purpose, skills in digital design and knowledge of digital CAD tools are required.

Area E – Funder: University of Udine - Polytechnic Department of Engineering and Architecture

Research topic: AMS design of Multiplying Delay Locked Loops (MDLL) in nm-scale CMOS technology

The project is developed in the field of integrated frequency multipliers. In particular, it initially involves a detailed literature review of state-of-the-art circuit solutions, such as ring oscillators, Multiplying Delay Locked Loops (MDLL), and Injection-Locked Phase-Locked Loops (IL-PLLs), in order to compare architectures that provide the best performance in terms of phase noise and power consumption. Then, the activity will focus on the design and the simulation of MDLL architectures by means of TCAD tools, with the goal of exploring the design space and optimizing the architecture to improve the performance in terms of power and area consumption, and maximum operating frequency. Furthermore, the project includes a close collaboration with the industrial partner Infineon Technology Austria for the fabrication and characterization of MDLL prototypes, with the aim of validating the design strategy and the correlation between simulations and hardware. The ultimate goal is a fine optimization of the system to meet the design specifications. For this purpose, skills in Analog Mixed-Signal (AMS) design and knowledge of TCAD simulation frameworks are required.

Area F – WITHOUT SCHOLARSHIP POSITION – Funder: University of Udine - Polytechnic Department of Engineering and Architecture

Research topic: High power density power converters for future DC Data Centers

Today, nearly all data centers are designed around AC utility power. The electrical path includes multiple electrical power conversions stages, before reaching the compute load. Power typically enters the data center as medium-voltage (MV) AC (up to 35kV), is then stepped down to low-voltage (LV) AC (480V or 415V) using a standard low-frequency transformer, converted to DC inside an uninterruptible power supply (UPS) for battery storage, converted back to AC, and converted again to low-voltage DC (typically 54 V DC) at the server, supplying the DC power computing chips actually require. That setup worked well enough for the amounts of power required by traditional data centers, which is not anymore, the case in the era of AI, where the computational power installed at rack level in starting to approach and planned to exceed MW level.

By converting MVAC grid power directly to 800 VDC at the data center perimeter, most intermediate conversion steps are eliminated. This leads to higher system reliability, lower heat dissipation, improved energy efficiency and a smaller equipment footprint.

This research investigates high-efficiency, high-power-density conversion chains for future DC Data Centers, spanning from Medium Voltage AC (MVAC) grid connection down to the Point-of-Load (PoL). The activities will focus on advanced system architectures, conversion topologies, integration technologies and strategies and control optimization to minimize losses and providing the needed system operational performance.



4. PLACES and ASSESSMENT PROCEDURES – PhD Programme in MOLECULAR MEDICINE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 15, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 25, 2026
	Time	09:30 AM (CEST)
	Place	Department of Medicine (DMED), Seminar Room – Piazzale Kolbe 4, 33100 Udine ITALY
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 10

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 9	6	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 17,805.00	max 6 months optional	Area A
	2	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Centro di Riferimento Oncologico – CRO (Aviano)*	€ 17,805.00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Project “Developing chromosome transplant technologies towards universal cell therapies” (project code FIS-2024-04727) funded by Italian Science Fund (FIS) 2024 – 2025 Call FIS3 - CUP:C53C25001080001; Research Coordinator: prof. Gianluca Petris	€ 17,805.00	max 6 months optional	Area C
Places WITHOUT SCHOLARSHIP: 1	1	Chancellor's Decree n. 287/2026 art. 10 c. 4 lett. a)	University of Udine – Department of Medicine	-	max 6 months optional	Area D

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
Research topics: 1, 2, 3, 4, 5, 6
1. Regulators and repair factors impacting stress induced DNA & RNA modifications in cancer (supervisors prof. Gianluca Tell and prof.ssa Giulia Antoniali)
DNA and RNA are the master instructional and regulatory molecules that control human cellular and organismal health. While the DNA and RNA sequences are essential for providing genetically driven instructions (DNA, mRNA) and regulatory or functional molecules (lncRNA, tRNA, miRNA), base modifications of both DNA and RNA add a disease-driven or developmental level of gene regulation and RNA function. The stability and functional potential of these base modifications or epigenomic regulators are mediated by protein complexes and pathways that have evolved to “repair” DNA and RNA bases. The primary enzymatic pathway for the “repair” of base modifications is the “Base Excision Repair” or BER pathway. Our goal will be to identify the complete protein interactome among these critical BER factors in cancer cells (ovarian and lung) upon disease-relevant genotoxic conditions. To address the role of genotoxicants on G-quadruplex (RG4) containing miRNAs secondary structure formation and stability and the existence of repair or quality control mechanisms impacting miRNA maturation/function, we propose the following key milestones: (1) Understand the role of BER enzymes on RG4-miRNA processing and quality control affecting gene expression in the models proposed, using biochemical/biophysical characterization of the isolated complexes and NGS sequencing approaches in cells and EVs; (2) Identify small molecules interfering with BER proteins/RG4-miRs complexes using high-throughput screening assays, biochemical/biophysical assays and in silico structural tools; (3) Validate the efficacy of the inhibitors



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in cells (2D) and patients-derived organoids (3D). These findings will represent a starting point for the development of novel therapeutic agents.

Through this Project, we will uncover protein-protein, protein-DNA, and protein-RNA complexes, along with functional outcome analysis, that will yield novel analytical tools important for the development of biomarkers (protein, gene expression) for patient diagnosis, monitoring, treatment, and stratification.

2. Distal cis-regulatory elements and the control of senescence (supervisor prof. Claudio Brancolini)

Cellular senescence is a key condition that characterises tissue ageing and is associated with several diseases. Understanding the mechanisms that control senescence is crucial for addressing ageing and understanding cancer development. Cellular fates and adaptations are largely governed by differential gene expression. Transcription is the first step in gene expression. Multiple cis-regulatory elements regulate gene transcription and development in a temporally coordinated manner. Much less is known about distal cis-regulatory elements, such as enhancers, in the control of gene expression. What are these elements? How do they function? Do different types of enhancers exist? These questions remain unanswered, although there is strong evidence that some of these elements are fundamental hubs for cell fate decisions. The proposed research project aims to define the distal regulatory elements (DREs) that control replicative senescence.

Planned research activities for the PhD student:

i) Analyse our omics data (ATAC-seq, ChIP-seq for H3K27, H2B120 and H3K56 acetylation) from human smooth muscle cells that have undergone replicative senescence. The aim is to define the landscape of DREs activated during replicative senescence.

Expected results: Definition of a catalogue of DREs activated during replicative senescence, characterised by the presence of different histone acetylation marks and chromatin accessibility.

Candidate profile: Previous experience in bioinformatics is preferable; if not available, specific in-house or abroad training will be arranged.

ii) Prioritisation of DREs by mutational analysis in cancer samples

Cancer cells must acquire the ability to escape senescence to grow and metastasise. The involvement of oncogenes and tumour suppressor genes is well known. Much less is known about the involvement of DREs. Therefore, to understand the implications of DRE malfunction in human diseases, the identified DREs activated during RS will be screened for the accumulation of mutations in cancer cells. Whole genome sequence data (<https://platform.icgc-argo.org> and other resources) will be examined for the presence of copy number variations, point mutations, and deletions in the DREs controlling senescence.

Expected results: Identification of the 10 most promising DREs in terms of activation during senescence and presence of alterations in cancer patients.

iii) Interference with DREs and the control of replicative senescence.

In this task, the PhD student will carry out the functional characterisation of the DREs activated in senescence, as defined by the previous analysis. In the selected 10 DREs, acetylation will be switched off by localising class I (HDAC1) and class IIa (HDAC4) histone deacetylases. To this end, two HDACs fused to dCas9 (dead/inactive Cas9) will be expressed in proliferating cells, together with sgRNAs that will direct the dCas9-fused HDACs to the selected DREs. The effects on gene expression will then be evaluated by RNA-seq and qRT-PCR, and the appearance of senescence will be assessed upon induction of senescence.

Expected results: Identification of DREs that play a key role in senescence induction and definition of the genetic programme under their regulation.

Candidate profile: Previous experience in basic cell culture and basic molecular biology techniques is preferable, but if not available, in-house training will be provided.

iv) Definition of the 3D genomic organisation in relation to DREs acetylation status.

To precisely explore the gene networks controlled by DREs, genome-wide chromatin interaction maps will be generated using Hi-C (chromosome conformation capture followed by high-throughput sequencing). Notably, senescence is associated with significant 3D genome and TAD (Topologically Associated Domain) reorganisation. This analysis will provide a reference map of all chromatin interactions in proliferating and senescent cells. The map will be compared with 3D maps generated in other models of senescence and will be linked to gene expression analysis by RNA-seq.

Expected results: Definition of a precise map of DREs controlling senescence and the genes under their direct influence.

Candidate profile: Previous experience in basic cell culture and basic molecular biology techniques is preferable, but if not available, in-house training will be provided.

The PhD student and the scientific community.

Planned activities:

During the second year, the PhD student will present the first results of the project at a national scientific meeting.

During the third year, the PhD student will present the project results at an international meeting.

In parallel with the preparation of the thesis, a review article on the project topic should be written and submitted for publication in an international peer-reviewed journal.

References

- HDAC4 influences the DNA damage response and counteracts senescence by assembling with HDAC1/HDAC2 to control H2BK120 acetylation and homology-directed repair.

Di Giorgio E, Dalla E, Tolotto V, D'Este F, Paluvai H, Ranzino L, Brancolini C. *Nucleic Acids Res.* 2024 Aug 12;52(14):8218-8240. doi: 10.1093/nar/gkaf501.

- Transcription of endogenous retroviruses in senescent cells contributes to the accumulation of double-stranded RNAs that trigger an anti-viral response that reinforces senescence.

Di Giorgio E, Ranzino L, Tolotto V, Dalla E, Burelli M, Gualandi N, Brancolini C.

Cell Death Dis. 2024 Feb 21;15(2):157. doi: 10.1038/s41419-024-06548-2.

- HDAC4 degradation during senescence unleashes an epigenetic program driven by AP-1/p300 at selected enhancers and super-enhancers.

Di Giorgio E, Paluvai H, Dalla E, Ranzino L, Renzini A, Moresi V, Minisini M, Picco R, Brancolini C.



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Genome Biol. 2021 May 10;22(1):129. doi: 10.1186/s13059-021-02340-z.

- Histone modification clocks for robust cross-species biological age prediction and elucidating senescence regulation. Niu Z, Liu C, Fan Y, Gu L. Proc Natl Acad Sci U S A. 2026 Mar 17;123(11):e2533687123. doi: 10.1073/pnas.2533687123.
- Chromatin dynamics shape aging across organs
Sam N. Barnett and Michela Nosedà. Science 391 (6788), . DOI: 10.1126/science.aef5650

3. Characterization of the impact of G-loops on cellular and metabolic identity in physiological and pathological cellular states (supervisor prof. Eros Di Giorgio)

This PhD project aims to investigate the role of G-loops as emerging regulatory elements in shaping cellular identity and metabolic programs under both physiological and pathological conditions. G-loops, non-canonical nucleic acid structures associated with guanine-rich regions, are increasingly recognized as key modulators of genome stability and gene expression.

Over the three-year period, the project will focus on the genome-wide profiling of G-loops using advanced functional genomics approaches and next-generation sequencing technologies, with the objective of defining their genomic distribution, dynamic regulation, and association with specific cellular states.

Specifically, the project will assess the impact of G-loops on:

- DNA replication, by evaluating their role in replication fork progression, stability, and replication stress
- Gene transcription, by investigating their influence on promoter and enhancer activity, as well as transcriptional output
- Metabolic regulation, by exploring their contribution to the control of cellular metabolic programs

To capture both physiological and pathological contexts, the study will integrate multiple model systems, including replicative senescence, oncogene-induced senescence (OIS), and colorectal cancer patient-derived organoids (CRC PDOs), enabling the identification of disease-associated alterations in G-loop landscapes.

Mechanistically, the project will employ targeted in situ recruitment strategies to modulate G-loop resolution, including helicases (hnRNPA1, DDX5), enzymatic factors (RNaseH1), and epigenetic remodelers (SSRP1). These perturbations will be complemented by in vitro biochemical assays to dissect causal relationships between G-loop dynamics and downstream molecular processes.

Overall, this research will provide novel insights into the role of G-loops as integrative hubs linking genome architecture, transcriptional regulation, and metabolism, ultimately contributing to a deeper understanding of cellular plasticity and disease mechanisms.

4. Pathway centric patient derived models and mathematical modelling for precision targeting in glioblastoma (supervisor prof.ssa Daniela Cesselli)

This PhD project aims to develop a patient based experimental and computational framework to identify therapeutic vulnerabilities in glioblastoma by acting on dysregulated signaling pathways rather than on single gene mutations. By integrating patient derived in vitro models, pathway level mathematical modelling, transcriptomic and targeted (phospho)proteomic analyses, the project seeks to propose rational multi target treatment strategies that are both biologically grounded and realistically implementable because based on already available or repurposed drugs.

Over the three-year period, fresh surgical specimens from glioblastoma patients will be used to generate primary 2D cultures and 3D organoids that preserve key tumor features, including stem like subpopulations, intra tumoral heterogeneity and, when possible, relevant microenvironmental components. These models will be characterized with focused multi omic approaches, combining RNA seq with targeted proteomic and phosphoproteomic panels designed to quantify the activity of core oncogenic and stress response pathways. Instead of generating exhaustive catalogs of mutations, the project will reconstruct patient specific pathway activation signatures that summarize the functional state of each tumor.

The experimental data will feed into mathematical and network-based models that treat glioblastoma as a dynamical system governed by interacting pathway modules. Starting from a coarse-grained network of signaling nodes and regulatory interactions, ordinary differential equation systems and graph theoretical analyses will be used to explore how different parameter configurations correspond to distinct tumor “states” (for example highly proliferative, therapy resistant, neuronal like). For each patient derived model, the aim is to:

- (i) infer parameter sets that reproduce observed pathway activity and phenotypic profiles;
- (ii) identify “control points” in the network whose modulation is predicted to shift the system away from aggressive attractors;
- (iii) and computationally screen small combinations of interventions (single, dual or triple perturbations) to prioritize multi target strategies that are robust to heterogeneity and adaptive resistance.

Prioritized interventions will then be tested experimentally in the patient derived cultures and organoids using a combination of standard of care agents (such as temozolomide) and selected targeted or repurposed drugs, with particular interest in compounds that are already clinically available or have known CNS penetration (for example neuroactive drugs with emerging anti glioblastoma activity). Functional readouts will include proliferation, apoptosis, invasion and markers of cellular plasticity, together with pathway level responses captured by phosphoproteomic panels. This iterative loop between in vitro data and mathematical predictions will allow refinement of the models, validation of synergistic interactions and identification of pathway centric vulnerabilities that recur across patients.

Overall, the project will deliver a proof of concept that patient derived glioblastoma models, mathematically grounded network analysis and affordable targeted proteomics can be combined to design and test personalized, pathway oriented therapeutic strategies. By shifting the focus from individual mutations to signaling networks, and grounding all predictions in experimentally accessible patient-based systems, the proposal offers a realistic and innovative route toward more effective, multi target interventions in glioblastoma.

5. NMR-based structural and dynamic profiling of V30M transthyretin in buffer and patient serum across ATTR disease onset stages (supervisor prof.ssa Alessandra Corazza)

L Transthyretin (TTR) amyloidosis (ATTR) is a progressive and often fatal disorder driven by the misfolding and aggregation of TTR, with the V30M variant being one of the most prevalent pathogenic mutations. Notably, the clinical



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heterogeneity observed between early- and late-onset ATTR suggests that subtle differences in protein structure and dynamics, as well as environmental factors, may play a critical role in disease progression. However, these factors remain insufficiently understood, particularly under physiologically relevant conditions.

This project aims to elucidate the structural and dynamic properties of the V30M TTR variant using advanced nuclear magnetic resonance (NMR) spectroscopy in both controlled buffer systems and patient-derived serum. By combining hydrogen–deuterium exchange (HDX) measurements with ¹⁵N relaxation and relaxation dispersion experiments, the study will provide residue-level insights into conformational stability, solvent accessibility, and micro- to millisecond timescale dynamics. Importantly, the application of this integrated NMR approach directly in patient serum represents a highly innovative strategy to probe protein behaviour in a native-like environment.

To further bridge the gap between in vitro and physiological conditions, Rheo-NMR will be employed to investigate the impact of shear stress on TTR structure and dynamics. This approach will enable the assessment of mechanically induced conformational changes and their potential role in modulating aggregation propensity, offering a novel perspective on the influence of haemodynamic forces in ATTR pathogenesis.

By systematically comparing buffer and serum conditions, as well as early- and late-onset patient samples, this study seeks to uncover key determinants of TTR instability and disease variability. The results are expected to advance our molecular understanding of ATTR and may identify dynamic signatures associated with disease onset and progression, ultimately contributing to improved diagnostic and therapeutic strategies.

6. Patient-derived multi-omic and organoid models of intracranial meningiomas for functional stratification and precision approach (supervisor prof.ssa Daniela Cesselli)

This PhD project aims to establish and exploit a translational platform based on patient-derived meningioma models to functionally connect multi-omic tumor profiles with biological behavior and drug response, within a collaborative framework involving Washington University in St. Louis. The collaboration will enable sharing of protocols, comparative analysis of molecular subgroups across cohorts and potential exchange of selected models or datasets to increase robustness and generalizability of findings.

Over the three-year period, the project will focus on generating a biobank of fresh tumor samples, primary 2D cultures and 3D organoids derived from intracranial meningiomas, systematically annotated with clinical, radiological and pathological information. These models will be subjected to integrated omic characterization, including whole-exome sequencing, transcriptomic profiling and DNA methylation analysis, with the objective of defining molecular clusters that correlate with tumor aggressiveness, radiomic signatures and patient outcomes.

Specifically, the project will investigate:

- proliferative capacity and invasive potential of patient-derived 2D and 3D models, and their relationship to underlying genomic and epigenomic alterations
- microenvironmental interactions, including stromal and immune-related features, recapitulated within organoid systems
- sensitivity and resistance to targeted agents and rational drug combinations, using focused drug-screening strategies informed by molecular and pathway analyses, and aligned with complementary screening efforts in the collaborating laboratory

To capture inter-patient heterogeneity, the study will include meningiomas across different WHO grades, anatomical locations and molecular backgrounds, allowing comparison of functional phenotypes between low-risk and high-risk subsets and cross-validation with external cohorts. Mechanistically, perturbation experiments (e.g. pathway inhibition, epigenetic modulation) will be performed in selected models to dissect causal links between specific alterations and aggressive behavior or therapeutic vulnerability, with reciprocal refinement of hypotheses through joint data analysis meetings with the international partner.

Overall, this research will provide a comprehensive resource of biologically annotated meningioma models and multi-omic datasets, enabling the identification of actionable dependencies and candidate biomarkers for therapy response. By bridging patient-level data with experimentally validated functional readouts and by embedding the work in a structured international collaboration, the project will contribute to the design of future biomarker-driven clinical studies and to the implementation of precision medicine approaches in meningioma treatment at both local and international levels.

Area B – Founder: Centro di Riferimento Oncologico – CRO (Aviano)

Research topics: 7, 8

7. Decoding Sarcoma Complexity: Tumor Biology and Therapeutic Vulnerabilities (supervisor Dr. Luca Sigalotti)

Sarcomas are a rare and highly heterogeneous group of mesenchymal malignancies, characterized by diverse molecular features and variable clinical behavior. Effective therapeutic options remain limited, particularly in advanced disease, largely due to an incomplete understanding of the molecular mechanisms underlying tumor initiation, progression, and therapy resistance.

This project will focus on selected sarcoma histologies and aims to dissect their biological complexity through an integrated approach combining functional genomics, multi-omics, and biochemical and functional assays.

Overall, this research aims to provide a comprehensive framework for understanding sarcoma pathobiology and to uncover novel prognostic and predictive biomarkers, as well as therapeutic targets, ultimately contributing to more effective management of sarcoma patients.

8. Integrated Multiparametric Approach for Identifying Novel Prognostic Markers and Therapeutic Targets in chronic lymphocytic leukemia (supervisor Dr. Riccardo Bomben)

This research project aims to establish an integrated multiparametric framework to characterize the immunophenotypic and genetic landscape of patients with chronic lymphocytic leukemia (CLL). By longitudinal monitoring of patients from initial diagnosis through clinical follow-up, the study seeks to identify robust biomarkers capable of predicting early disease progression and characterizing the molecular basis of primary or acquired resistance to next-generation targeted therapies, specifically BTK inhibitors (BTKi) and BCL2 antagonists.



4. PLACES and ASSESSMENT PROCEDURES – PhD Programme in MOLECULAR MEDICINE

Over the project duration, a dual-pronged analytical approach will be employed. We will utilize high-dimensional flow cytometry to define cellular sub-populations and immune-exhaustion profiles, alongside next-generation sequencing (NGS) to map the clonal evolution of genetic aberrations (such as TP53, NOTCH1, and SF3B1 mutations) and emerging resistance variants (e.g., BTK or BCL2 mutations).

Specifically, the project will evaluate:

- Disease Kinetics: Identifying immunogenetic signatures associated with a "short time to first treatment," enabling earlier clinical intervention.
- Therapeutic Response: Characterizing the molecular determinants of "low response" or "early relapse" in patients treated with small-molecule inhibitors.
- Clonal Evolution: Investigating how the selective pressure of targeted therapies shapes the leukemic microenvironment and genetic architecture over time.

By integrating clinical outcomes with high-resolution laboratory data, this project aims to bridge the gap between experimental oncohematology and bedside precision medicine. The ultimate goal is to define a predictive "multiparametric score" that facilitates personalized therapeutic stratification, optimizing the use of high-cost targeted molecules and improving long-term survival for CLL patients.

Area C – Funder: University of Udine – Project “Developing chromosome transplant technologies towards universal cell therapies” (project code FIS-2024-04727) funded by Italian Science Fund (FIS) 2024 – 2025 Call FIS3 - CUP:C53C25001080001



Research topic: 9

9. Synthetic and Generative Biology for Protein and Cellular Engineering. (supervisor dr. Gianluca Petris)

The project focuses on the development of integrated approaches combining AI-assisted protein design, genome engineering, and the manipulation of protein folding and degradation pathways, with the aim of reprogramming the mechanisms that regulate protein function, stability, and fate in cellular systems, within a synthetic and generative biology framework. Activities will include the computational design of polypeptide variants, the application of genetic engineering techniques, and the experimental analysis of the processes governing proteostasis. The project will provide interdisciplinary training in molecular, cellular, and computational biology, within an integrated wet-lab/in silico research environment characterized by strong innovation and significant scientific complexity.

Area D – Founder: University of Udine – Department of Medicine

Research topic: 10

10. Integrated radiomic–multi-omic modelling for personalized risk stratification and surgical management of intracranial meningiomas. (supervisor prof.ssa Daniela Cesselli)

This PhD project aims to develop and clinically validate an integrated radiomic–multi-omic framework to improve preoperative risk stratification and personalize the neurosurgical management of intracranial meningiomas, within an international collaboration with Washington University in St. Louis (Neuroscience Department). The project addresses the limitations of WHO 2021 histological grading in predicting recurrence, progression and surgical risk, by combining advanced MRI, radiomics and clinical–pathological data to generate accurate, interpretable decision tools for neurosurgeons. Over the three-year period, quantitative features will be extracted from conventional and advanced MRI sequences (contrast-enhanced, diffusion-weighted and perfusion imaging) and integrated with clinical variables to build machine-learning models estimating biological aggressiveness, likelihood of complete resection and early recurrence.

Specifically, the project will:

- define radiomic signatures associated with histopathological and molecular markers of aggressiveness (WHO grade, mitotic index, Ki-67, key driver alterations);
- evaluate the predictive value of imaging-derived features for intraoperative parameters (blood loss, operative time, complications) and early postoperative outcome;
- characterize the contribution of preoperative embolization by correlating angiographic patterns, degree of devascularization and embolization status with radiomic profiles, surgical complexity and early clinical recovery, also benchmarking indications and results with the collaborating center.

Retrospective and prospective cohorts will be used to derive and validate models, with external validation supported by data exchange and harmonized analysis pipelines. Emphasis will be placed on explainable artificial intelligence to translate model outputs into practical rules for surgical planning (e.g. embolization indication, expected extent of resection, intensity of follow-up). Overall, this research will generate a clinically oriented decision-support tool that links imaging, biology and operative risk, improving patient outcomes and fostering international standardization of meningioma management.



5. PLACES and ASSESSMENT PROCEDURES – PhD Programme in FOOD SCIENCE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 23, 2026
	Time	09:00 AM (CEST)
	Place	Department of Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) - via Sondrio 2/A, 33100 Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 7

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 5	4	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine	€ 17.805,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. a)	External funder: University of Udine – Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)	€ 17.805,00	max 6 months optional	Area B

RESEARCH PROGRAMMES

Area A – Funder: University of Udine

In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 5).

Area B – Funder: University of Udine – Department of Agricultural, Food, Environmental and Animal Sciences (DI4A)

Valorization of dairy by-products for the production of high-value-added bioactive compounds

The PhD project is set within the framework of the sustainable valorization of dairy industry by-products, aiming to develop innovative strategies for the production of bioactive compounds. The research will focus on enzymatic processes, including enzyme immobilization techniques, as well as on the possibility of producing these compounds directly within dairy matrices. Particular attention will be given to the chemical and functional characterization of the obtained products and to the evaluation of their bioactive properties, in relation to their potential use as functional ingredients.



6. PLACES and ASSESSMENT PROCEDURES – PhD Programme in ENVIRONMENTAL AND ENERGY ENGINEERING SCIENCE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 15, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 25, 2026
	Time	08:45 A.M. (CEST)
	Place	Polytechnic Department of Engineering and Architecture (DPIA), Sala Riunioni Bianca DPIA – via delle scienze 206, 33100 Udine
Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.		

Available places: 6

Detailed description	N.	Type	Funding	Gross Annual amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 6	4	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine	€ 19.367,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 c. 2 lett. a)	External funding: Region FVG - Call "Cohesion and Development Plan of the Autonomous Region of Friuli Venezia Giulia" - Project "Udine Hydrogen Research Center" - CUP G23C25001470002	€ 19.367,00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 c. 2 lett. a)	External funding: Rockwool (Hedehusene, Denmark) *	€ 19.367,00	max 6 months optional	Area C

*Scholarships funded by "External Institutions" and Partner institutions are awarded only after the agreement concerning the funding has been successfully completed or after a decree granting the funds or approving the operation has been issued (Chancellor's Decree n. 287/2026 art.13 p.7).

RESEARCH PROGRAMMES

Area A – Funder: University of Udine

In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 6).

Area B – Funder: University of Udine - Project Udine Hydrogen Research Center - UD-H2 – CUP G23C25001470002 (linked to CUP Master D27G25000250001) - Financed by the Autonomous Region of Friuli Venezia Giulia - Notice "Cohesion and Development Plan of the Autonomous Region of Friuli Venezia Giulia – Special Section – Public call for proposals for the selection of research projects in the field of renewable hydrogen" – Regional Law 13/2023, art. 7, paragraphs 14 and 15 bis"



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA

Research topic: Hybrid thermodynamic modeling and decision support systems for multi-objective optimization of integrated hydrogen supply chains

The research programme is aimed at the development of hybrid thermodynamic models and advanced decision-support systems for the analysis, simulation, and optimisation of integrated hydrogen supply chains, with particular reference to the interaction between electrolysers, pressurised storage systems, and electrochemical end-use devices. The activity is framed within Line 2 of the UD-H2 project, which focuses on the integration of key technologies along the production-storage-utilisation chain, the assessment of operational performance, and the analysis of interfaces and energy losses between subsystems. The scientific objective of the project is to build a modeling framework capable of describing the dynamic behavior of integrated hydrogen systems under variable operating conditions, with particular emphasis on the interconnection between storage and end-use systems. In this context, models will be developed to



6. PLACES and ASSESSMENT PROCEDURES – PhD Programme in ENVIRONMENTAL AND ENERGY ENGINEERING SCIENCE

represent transient pressure, temperature, and flow-rate phenomena, the charge and discharge processes of storage systems, the interactions between electrochemical components and balance-of-plant systems, as well as the mechanisms governing overall efficiency and operational stability of the supply chain. Energy losses along the chain will also be quantified and minimized, identifying high-efficiency and robust system configurations and operating strategies. From a methodological standpoint, the research will involve the integration of physics-based modeling, experimental data acquisition, and multi-objective optimization tools. These activities will be complemented by advanced thermodynamic and fluid dynamic simulations, as well as the development of predictive algorithms oriented toward maintenance, safety, and energy optimization. A key aspect of the research program concerns the definition of decision support systems capable of transforming experimental data and simulation results into operational information for hydrogen supply chain management. Within this framework, the project will address optimization problems related to system configuration, selection of operating parameters, management of variable load conditions, and evaluation of trade-offs between energy efficiency, safety, and industrial scalability. The expected outcome is the development of methodological and computational tools transferable to real-world applications, supporting the design and management of high-performance, safe, and sustainable hydrogen infrastructures.

Area C – Founder: Rockwool A/S

Research topic: Fore-aft asymmetric fibers in turbulence: Modelling and simulation of flocculation with application to stone wool spinning

The general objective consists in training the PhD student on the issues related to the theoretical and numerical analysis of the fluid dynamics aspects that characterize the motion of fibers with a fore-aft asymmetric distribution of mass, with specific reference to the process of fiber flocculation in turbulent flow. Although the dynamics of fibers in turbulent flows have been studied before, nothing is known with regard to their non-homogeneous mass distribution or their flocculation dynamics. The training is aimed at providing the PhD student with the tools and skills necessary to investigate how the behavior of fore-aft asymmetric is modulated by their interaction with the underlying carrier flow, thus narrowing the gap between what is currently known about the overall dynamics of such fibers in turbulence and the actual fiber flocculation process, the physics of which remain poorly understood. The knowledge gained through this training will be exploited in the last part of the project to devise pathways for the optimization of the cascade spinning process, which is an industrial fiber-forming technique used to produce mineral fibers (most commonly stone wool or rock wool). To achieve the project's general objective, the following specific objectives and research activities are formulated:

(1) Develop a reliable and accurate numerical tool to simulate fiber dispersion in turbulence and study floc formation from a fundamental perspective. The flow solver to be developed will be able to track individual fibers in an unbounded box of homogeneous and isotropic turbulence, which allows to mimic what happens in a suitably selected small portion of the spinning chamber downstream of the spinning wheels. Such tool will complement those already available to track fibers in simple shear flow and turbulent channel flow.

(2) Validate the simulation tools just described against experiments, using realistic fibers suspended in both simple shear flow, and in turbulent flow setups.

(3) Examine the flocculation process in the presence of hydrodynamic interaction between the individual fibers and the flow. This aspect is crucial to understand the mechanisms that lead to floc formation crucial, and yet very marginally investigated so far. The effect of hydrodynamic interactions will be evaluated over a range of parameters as wide as possible, considering also a polydispersed suspension of fibers (when fibers characterized by different geometrical properties are simultaneously present within the flow, they are expected to modulate significantly the macroscopic behavior of the suspension and the tendency to form aggregates as compared to a suspension of mono-sized fibers) and different levels of turbulence intensity (mimicking different positions downstream of the spinning wheels where fibers are formed). To simulate different turbulence intensities, a simulation campaign at varying Reynolds number will be carried out.

Examine the flocculation process in the presence of a third (liquid) phase. In many situations of practical interest (such as stone wool cascade spinning), three phases coexist: most often, a gaseous carrier phase and two dispersed (solid and liquid) phases. In the present project, the third phase will be constituted by drops and the focus of the analysis will be on their interaction with the fibers, which is expected to favor floc formation. Indeed, studies in the literature have shown how that the introduction of drops in particulate suspensions can lead to the particles getting glued together. In addition, empirical observations carried out at the R&D Department of the Company. Considering that the fibers targeted in this project possess a certain length and asymmetry, an interesting research question is to examine how the interaction dynamics between the fibers and drops work and how these affect floc formation.



7. PLACES and ASSESSMENT PROCEDURES – PhD Programme in AGRICULTURAL SCIENCES AND BIOTECHNOLOGY

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 23, 2026
	Time	09:00 AM (CEST)
	Place	Department of Department of Agricultural, Food, Environmental and Animal Sciences (DI4A) - Sala Api (B2-46) - via delle Scienze 206, 33100 Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 3

Detailed description	N.	Type	Funding	Gross Annual amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 3	3	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine	€ 17.805,00	max 6 months optional	Area A

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
In line with the research topic of the PhD Curriculum in Biology and Plant Production (Chancellor's Decree n. 287/2026 – Table 7).



8. PLACES and ASSESSMENT PROCEDURES – PhD Programme in MATHEMATICAL AND PHYSICAL SCIENCES

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 22, 2026
	Time	09:00 AM (CEST)
	Examination procedures	Online
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 8

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 8	6	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 17.805,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Istituto Nazionale di Fisica Nucleare (INFN)	€ 17.805,00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	External funding: Istituto Nazionale di Astrofisica (INAF)*	€ 17.805,00	max 6 months optional	Area C

*Scholarships funded by "External Institutions" and Partner institutions are awarded only after the agreement concerning the funding has been successfully completed or after a decree granting the funds or approving the operation has been issued (Chancellor's Decree n. 287/2026 art.13 p.7).

RESEARCH PROGRAMMES

Area A – Funder: University of Udine

In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 8).

Area B – Funder: Istituto Nazionale di Fisica Nucleare (INFN)

Theoretical and experimental physics on research activities currently ongoing at the INFN Section of Trieste.

In line with the INFN research topics

Area C – Funder: Istituto Nazionale di Astrofisica (INAF)

Research programme: Simulations and XRF laboratory test for a high-energy detector

X-ray and gamma-ray spectroscopy can be used to assess the composition of planetary surfaces, which is a key ingredient for both studying the body origin and evolution and prospecting for its resources. PROGRex (Prospecting the Moon with Gamma and X-rays) is an X-ray and gamma-ray (1 keV to 5 MeV) spectrometer that is derived from the instrument developed for the SPIRIT and HERMES Pathfinder CubeSat-based missions. HARLOCK (High-resolution Autonomous Resource Lunar Observation and Characterization Kit) is an in-situ application, whose main goal is to bridge the gap on the Moon surface composition of metals, REE, and water, between the several tens km scale allowed by the best remote sensing observations and sample return sites. A rover will be equipped with PROGRex in order to search for atomic lines from rocks and regolith by means of XRF and gamma detection. In this context, the PhD student will learn and work with simulations through high energy software toolkits (such as GEANT4), and laboratory tests based on XRF instrumentation. These activities will drive design, development, calibration and environmental tests of the PROGRex XRF payload.



9. PLACES and ASSESSMENT PROCEDURES – PhD Programme in CLINICAL AND TRANSLATIONAL MEDICAL SCIENCES

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 22, 2026
	Time	09:00 AM (CEST)
	Place	Department of Medicine, Aula Convegni - p.le Kolbe 4, 33100 Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available positions: 8

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 8	5	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 17.805,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	Associated Institution: Azienda sanitaria universitaria Friuli Centrale (ASU FC)	€ 17.805,00	max 6 months optional	Area B
	1	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. a)	Associated Institution: Azienda sanitaria universitaria Friuli Occidentale (AS FO)	€ 17.805,00	max 6 months optional	Area C
	1	Chancellor's Decree n. 287/2026 art. 10 p. 4 lett. a)	External funding: Associazione Luca Onlus*	€ 17.805,00	max 6 months optional	Area D

*Scholarships funded by "External Institutions" and Partner institutions are awarded only after the agreement concerning the funding has been successfully completed or after a decree granting the funds or approving the operation has been issued (Chancellor's Decree n. 287/2026 art.13 p.7).

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 9).
Area B – Funder: Azienda sanitaria universitaria Friuli Centrale (ASU FC)
Clinical and translational applications in the field of ischemic heart disease, heart failure and cardiomyopathies, myocarditis, and pericarditis.
Area C – Funder: Azienda sanitaria universitaria Friuli Occidentale (AS FO)
Neurodevelopmental disorders with the aim of early identification of risk factors for serious mental health problems in the population transitioning into adulthood.
Area D – Funder: Associazione Luca Onlus
Assessment of liver function and fibrosis in children and young adults (0–21 years) with brain tumors undergoing oncological treatments.



10. PLACES and ASSESSMENT PROCEDURES – PhD Programme in ART HISTORY, CINEMA, AUDIOVISUAL MEDIA, AND MUSIC

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 19, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 29, 2026
	Time	09:00 AM (CEST)
	Place	Department of Humanities and Cultural Heritage (DIUM) – Sala del lampadario, Palazzo Caiselli, vicolo Florio 2, 33100 Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 6

Detailed description	N.	Type	Funding	Annual gross amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 6	6	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine*	€ 16.243,00	max 6 months optional	Area A

* One Scholarships is funded by the Department of Humanities and Cultural Heritage, from the resources of the "Department of Excellence 2023–2027" - - CUP G23C22003370001.

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
Programs in all subjects of the curricula (Chancellor's Decree n. 287/2026 – Table 10).



11. PLACES and ASSESSMENT PROCEDURES – PhD Programme in LINGUISTICS AND LITERATURE

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 12, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 24, 2026
	Time	09:00 AM (CEST)
	Place	University of Udine, aula 6, Palazzo Antonini - Via Petracco 8, Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places: 3

Detailed description	N.	Type	Funding	Gross Annual amount	Period abroad	Research programme
Places WITH SCHOLARSHIP: 3	3	Chancellor's Decree n. 287/2026 art. 10 p. 3 lett. b)	University of Udine	€ 16.243,00	max 6 months optional	Area A

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
In line with the research topics of the PhD programme (Chancellor's Decree n. 287/2026 – Table 11).



12. PLACES and ASSESSMENT PROCEDURES – PhD Programme in HISTORICAL AND PHILOSOPHICAL STUDIES

GENERAL COMPETITION

Date for the publication of admitted applicants to the oral examination	By June 15, 2026
Date for the publication of the final ranking list	By July 10, 2026

Examination schedule

Oral examination	Date	June 25, 2026
	Time	09:00 AM (CEST)
	Place	Department of Humanities and Cultural Heritage (DIUM) – Sala del lampadario, Palazzo Caiselli, vicolo Florio 2, 33100 Udine
	Based on the number of applicants, the oral examination may take place on more than one day. To take the examinations, the candidates must exhibit a valid identity document or other personal identification document (possibly the same document they attached to the application), under penalty of exclusion from the selection procedure. Citizens of non-EU states must exhibit their passport.	

Available places 4

<i>Detailed description</i>	<i>N.</i>	<i>Type</i>	<i>Funding</i>	<i>Gross Annual amount</i>	<i>Period abroad</i>	<i>Research programme</i>
Places WITH SCHOLARSHIP: 4	3	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine	€ 16.243,00	max 6 months optional	Area A
	1	Chancellor's Decree n. 287/2026 art. 10 c. 3 lett. b)	University of Udine - Department of Humanities and "Department of Excellence 2023–2027" - CUP G23C22003370001	€ 16.243,00	max 6 months optional	Area B

RESEARCH PROGRAMMES

Area A – Funder: University of Udine
Programs in all subjects of the curricula. (Chancellor's Decree n. 287/2026 – Table 12)

Area B – Finanziatore: Università degli Studi di Udine - Dipartimento di Studi umanistici e del patrimonio culturale "Dipartimento di eccellenza 2023-2027"
Programmi in tutte le materie dei curricula (Decreto Rettorale n. 287/2026 - Scheda 12)