"Pegaso Scholarships are funded with resources of the PR FSE 2021/27 in the frame of Giovanisì (www.giovanisi.it), the project organized by Regione Toscana to help young people become independent."

DOCTORAL PROGRAMME
IN
SMART COMPUTING
- SMART -

Director prof. Stefano Berretti

XLI cycle - academic year 2025/2026

CUP Pegaso Scholarships 2025	B12B25000220008

TECHNOLOGICAL AREA	
ADMINISTRATIVE OFFICE	Department of Information Engineering
WEB	smartcomputing.unifi.it
PARTNER INSTITUTIONS	University of Pisa University of Siena
POSITIONS AVAILABLE: 10 Positions with scholarship: 9 Positions without Scholarship: 1* ** standard ranking only*	
*The codes identify the **COMPETITION** to be selected in the online system for submission of the **ONLINE APPLICATION**.* *Before accessing consult the online application guide available at* **Cycle 41 - Call for Applications**	
RANKING LIST FOR STANDARD POSITIONS SCHOLARSHIPS AVAILABLE: 6	**SMART_41_STANDARD** **2** - University of Florence **1** - University of Siena **3** - Regione Toscana Pegaso Scholarships 2025**
RANKING LISTS FOR POSITIONS WITH SPECIFIC RESEARCH TOPICS SCHOLARSHIPS AVAILABLE: 3	**1 - University of Pisa** **SMART_41_TEM_01 "**Adaptive HumanCentric Interfaces for Enhancing Human-Machine Interaction" **2 - Regione Toscana Pegaso Scholarships 2025***** ***NOTE: Pegaso scholarships winners may be assigned **to one of the affiliated universities*** **SMART_41_TEM_02** "Machine Learning 4 Quantitative Evaluation (ML4QE)"

	SMART_41_TEM_03 "Graph Neural Networks for prediction, classification and anomaly detection problems in time series of observations collected by a distributed sensor network: application to air quality monitoring in urban contexts" **** For Regione Toscana Pegaso Scholarships 2025 a period of **training/research** in an enterprise, a public research institution or other public institution (not a university) of at least **3 months** is **mandatorily** required.*
STUDY/RESEARCH PERIODS ABROAD	**- 6 months** for Pegaso Scholarships 2025 in standard ranking **- 3 months** for ordinary scholarships, for Pegaso scholarship with specific research topics and for the position without scholarship
DOCUMENTS REQUIRED FOR THE ADMISSION	• Copy of the Identification Document • **Self-certification** for qualifications obtained in Italy (laurea triennale, specialistica o magistrale o ciclo unico) with list of exams taken, credits and related grade, title of the thesis and graduation mark (using this **template** or similar forms containing the required information) • Qualifications obtained abroad (Bachelor's and Master Degrees or combined cycle Degree) with a list of all exams taken, credits and related grade, rating scale, title of the thesis and graduation mark *The same documentation except for the final mark must be submitted by those who will graduate within the 31/10/2025*
DOCUMENTS REQUIRED FOR THE EVALUATION	**MANDATORY** • Curriculum vitae • Abstract of the M.Sc. thesis • Research project **OPTIONAL** • List of publications and any other qualification document • PDF copy or a chapter of the M.Sc. thesis (if available)
RESEARCH PROJECT	The research proposal should be written in English and should be submitted as a PDF file. The length may not exceed 12,000 characters. The research proposal should describe a three years project having a high potential for a novel scientific contribution in any area related to smart computing. In the proposal, the candidate should briefly summarize the state-of-the-art, identify one or more open problems, explain why solving these open problems is significant, and describe a research plan, possibly addressing the associated risk factors and strategies for dealing with them. The research proposal will not be used to bound the research in any particular area; it just serves the purpose of assessing the candidate's technical writing skills, the ability to envision sensible long-term research goals, and the ability to plan and evaluate research activities. Candidates applying for multiple rankings must attach a separate project for each.

<table>
<tr><td>FURTHER INFORMATION</td><td>Thematic of interest are listed in the section below “Topics for the research project and the interview”. Additional thematic of interest are listed at: smartcomputing.unifi.it/procedures</td></tr>
<tr><td>INTERVIEW MODE</td><td>Remotely (videocall)

The interview can be taken in Italian or in English language. If in Italian, the English language knowledge is tested during the interview.</td></tr>
<tr><td>EVALUATION MARKS</td><td>
<table>
<tr><th>Parameter</th><th>minimum score</th><th>maximum score</th></tr>
<tr><td>Curriculum vitae, academic career, publications, qualification documents</td><td>27/120</td><td>40/120</td></tr>
<tr><td>Research proposal</td><td>27/120</td><td>40/120</td></tr>
<tr><td colspan="3">Applicants who obtain a mark of at least 54/120 according to the minimum score for each parameter will be admitted to the interview</td></tr>
<tr><td>Interview (including a discussion of the research proposal)</td><td>26/120</td><td>40/120</td></tr>
<tr><td colspan="3">Eligibility is achieved with a minimum score of 80/120</td></tr>
</table>
</td></tr>
<tr><td>TOPICS FOR THE RESEARCH PROJECT AND THE INTERVIEW</td><td>

Artificial Intelligence
Computer Networking
Computer Vision
Computer Graphics
Computer Architectures
Conversational Agents
Data Analysis and Social Network Data Analysis
Fog/Edge computing in IoT
Embedded and Cyber-physical Systems
Machine Learning
Neuroinformatics
Pervasive Sensing & Computing
Quantitative evaluation and verification of concurrent systems
Security and Privacy in Smart Systems
Software architectures and engineering methods

</td></tr>
</table>

EXAMINATION SCHEDULE		
	DATE	**TIME**
INTERVIEW	September 12nd, 2025	10:00 am
The list of candidates admitted to the interview and the final ranking will be published at page **PhD courses**		