PH.D. PROGRAM IN COMPUTER SCIENCE

Antonio Brogi
Coordinator of the Ph.D. Program
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Our Ph.D. School
Partners

- Department of Computer Science, University of Pisa
- Department of Statistics, Computer Science and Applications “G. Parenti”, Univ. of Florence
- Department of Information Engineering and Mathematical Science, University of Siena

Main supporters

- Institute for Informatics and Telematics (IIT), CNR Pisa
- Institute for Science and Technology of Information “Alessandro Faedo” (ISTI), CNR Pisa
Our School

• Started in 1983 (1st Ph.D. program in Computer Science in Italy)
• Solid expertise
  • 300+ Ph.D.s
  • all occupied (both in academia and in companies)
• Evaluations and rankings
  • 100% positive assessment by MIUR («yes» in all criteria)
  • Top 3 Pegaso Ph.D. courses (2021)
• Strong networking opportunities
  • regional and national innovation network
  • international network
Ph.D. Steering Committee

27 members:

- 12 UNIPI
- 2 UNIFI
- 1 UNISI
- 2 CNR-IIT
- 2 CNR-ISTI
- 4 USA (U. Stanford, Northeastern, Missouri, Worcester)
- 2 France (Ecole Polytechnique Paris)
- 1 Germany (U. Stuttgart)
- 1 student
Our Ph.D. School
The Ph.D. Course
The Ph.D. course

- 3 year long
- Office space assigned
- Activities
  - **Research**
  - Attend 6 courses and 3 seminar series in the 3 years
- Opportunities
  - Travel to *conferences* and *summer schools* (funding assigned)
  - Spend periods *abroad* (50% increase of scholarship)
  - Do internships
  - **Teach**
  - Yearly events
Organisation

Each Ph.D. student followed by
- One (or more) supervisor(s)
- An «internal» Ph.D. committee (supervisors + 2 experts)

Route-to-thesis
- End of year 1: thesis proposal
- End of year 2: progress report
- End of year 3: thesis
Our Ph.D. School
The Ph.D. Course
Calls for admissions
First call for admission is open!

We are looking for talented students!
## Calls for admission

<table>
<thead>
<tr>
<th>Id</th>
<th>Scholarships</th>
<th>Theme</th>
<th>Funded by</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO01</td>
<td>5*</td>
<td>Development and analysis of methods and tools for natural language processing using machine learning and deep learning techniques</td>
<td>UNIP, UNIFI, UNISI, CNR-ISTI</td>
</tr>
<tr>
<td>INFO02</td>
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<td>Methodologies and technologies for the digital transition of public administrations</td>
<td>DM 352 and by Aptus.AI</td>
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<td>Modelling protein-protein interactions with deep learning and molecular dynamics</td>
<td>DM 351</td>
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<tr>
<td>INFO04</td>
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<td>Adaptive Human-Computer Interaction</td>
<td>CNR-ISTI</td>
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<td>Continual Learning for image classification and Object Detection</td>
<td>Leonardo</td>
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<td>Models, methodologies and tools for HPC continuum</td>
<td>National Centre for HPC, Big Data and Quantum Computing</td>
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<td></td>
<td>1</td>
<td>Low latency video streaming</td>
<td>IES Italia</td>
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<td></td>
<td>?**</td>
<td>-</td>
<td>Regione Toscana</td>
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* 2 admitted without scholarship
** 5 scholarships last year (3 non-thematic, 1 on “big data”, 1 on “cybersecurity”)
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1  Cyber security and privacy in the development lifecycle of systems and application
1  Quantum Internet
1  Automotive and cybersecurity
1  Models, methodologies and tools for HPC continuum
1  Continual Learning for image classification and Object Detection
1  Low latency video streaming

* plus 2 admitted without scholarship

** 5 scholarships last year (3 non-thematic, 1 on “big data”, 1 on “cybersecurity”)
(First) Call for admission is open


• Who can apply
  • Graduated students and students that will graduate by October 31st
  • Candidates can apply to all INFO* calls by paying a single application tax

• Important dates:
  • Deadline to apply: August 8th, 2022 at 1 pm CET
  • Oral interviews will be held in the first half of September
  • Scholarships and activities will start on November 1st, 2022

• You must upload
  • Upload your curriculum vitae and titles/certificates (including English B2 certificate – if you already have it)
  • Upload a 1-page “research project”
  • Indicate names and contact of 2 professors/scholars/researchers available to upload a reference letter for you
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Examples of Ph.D. students
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Q&A