annex 3)

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- Biomedical Sciences p. 7
- Clinical Sciences p. 10

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- International Doctorate in Atomic and Molecular Photonics p. 16
- International Doctorate in Structural Biology p. 18
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- Information Engineering p. 36
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- Philosophy p. 53
- Comparative Languages, Literature and Culture p. 58
- Education Sciences and Psychology p. 59
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- Historical Studies p. 67
# Doctoral Programme in Drug Research and Innovative Treatments

**Coordinator prof. Carla Ghelardini**

## Biomedical Area

### Administrative Office
Department of Neuroscience, Psychology, Drug Research and Child Health

### Curricula
1. Pharmaceutical Sciences
2. Pharmacology, Toxicology and Innovative Treatments

## Positions Available: 8

Positions with Scholarship: 6  
Positions without Scholarship: 2

### Scholarships: 6
- 5 – University of Florence  
- 1 – University Hospital Meyer

### Reserved Positions

No

### Study/Research Periods Abroad

Not required

### Documents to be Enclosed with the Application

**Mandatory Documents**
- Copy of the Identification Document
- Replacement Declaration Form

### Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.

### Evaluation Modalities

- Written examination
- Interview

### Other Languages in Which the Examinations May Be Taken

English

### Skype Interview

No

### Further Information about Examinations

With regards to the written test the applicants will be asked to discuss a particular theme choosing one of the texts proposed for each curriculum. The applicants with a minimum score of 40 will take an oral test.
### EVALUATION MARKS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written examination</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

### FURTHER INFORMATION ON THE EVALUATION PROCESS

1. **Curriculum in Pharmaceutical Sciences**
   - The **written examination** will be characterised by the completion of an essay on design and synthesis, or molecular modelling or pharmaceutical analysis or pharmaceutical technology, of natural or synthetic pharmacologically active molecules.
   - The **interview** will be centred on the discussion of the theme chosen by the applicant as well as on previous research experiences.

2. **Curriculum in Pharmacology, Toxicology and Innovative Treatments**
   - The **written examination** will be characterised by the completion of an essay on general pharmacology.
   - The **interview** will focus on the discussion of the theme chosen by the applicant, as well as on previous research experiences.

Further information available at the following web page:
https://www.neurofarba.unifi.it/ls-9-ricerca.html

### EXAMINATIONS SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WRITTEN EXAMINATION</strong></td>
<td>10 September 2018</td>
<td>9:30 a.m. Department of Neuroscience, Psychology, Drug Research and Child Health Section of Pharmacology and Toxicology Room “A” – CUBO 2 Viale Pieraccini, 6 – Florence (first floor)</td>
</tr>
<tr>
<td><strong>INTERVIEW</strong></td>
<td>10 September 2018</td>
<td>3:00 p.m.</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the written examination will be published at the following web page: https://www.unifi.it/p11361.html

The list of the candidates admitted to the interview will be published at the following web page: https://www.neurofarba.unifi.it/

The Final Ranking will be published at the following web page: https://www.unifi.it/p11361.html
**TUSCANY PH.D. IN NEUROSCIENCES**

Coordinator prof. Felicita Pedata

---

**BIOMEDICAL AREA**

**ADMINISTRATIVE OFFICE**
Department of Neuroscience, Psychology, Drug Research and Child Health

**Regione Toscana Pegaso Project 2018**
University of Florence
University of Pisa
University of Siena

**CURRICULA**
NO

**POSITIONS AVAILABLE: 14**

- Positions with Scholarship: 11
- Positions without Scholarship: 3*

*standard ranking only

**Ranking List for STANDARD POSITIONS**

| Scholarships available: 7 | 4 – University of Florence | 3 – Regione Toscana Pegaso Scholarships 2018 |

**Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS**

<table>
<thead>
<tr>
<th>Scholarships available: 4</th>
<th>3 – Regione Toscana Pegaso Scholarships 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. “Robotic and telemedicine technologies for the recovery of neuromotor functions and perceptive in children with neurodevelopmental”</td>
<td></td>
</tr>
<tr>
<td>2. ”Pilot project of technological development of screening with telemedicine of diabetic retinopathy”</td>
<td></td>
</tr>
<tr>
<td>3. ”Methods of integration of administrative and clinical data related to Multiple Sclerosis for the creation of &quot;Big Data&quot; aimed at improving the Health System in the Tuscan territory”</td>
<td></td>
</tr>
<tr>
<td>1 – University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
<td></td>
</tr>
<tr>
<td>“Interaction between Adenosine A2B Receptors and Sphingosine Kinase/Sphingosine 1–Phosphate signal axis in Oligodendrogenesis and Myelin repair”</td>
<td></td>
</tr>
</tbody>
</table>

**RESERVED POSITIONS**
NO

**STUDY/RESEARCH PERIODS ABROAD**
YES - for Pegaso Scholarships 2018 only

**MANDATORY PERIOD REQUIRED**
- 12 months for *Regione Toscana Pegaso Scholarships 2018* - standard positions
- 6 months for *Regione Toscana Pegaso Scholarships 2018* - specific topics research scholarships

**DOCUMENTS TO BE ENCLOSED WITH THE**

**MANDATORY DOCUMENTS**
- Copy of the Identification Document
### APPLICATION
- Replacement Declaration Form
- Curriculum vitae (European format), with indication of qualifications and all publications of the applicant.
- Research Project

### OPTIONAL DOCUMENTS
- Publications (if any)
- Certificate of English proficiency at level B2 or higher

### RESEARCH PROJECT
In the application forms, the candidate should indicate whether he/she wants to participate to the selection for the “standard positions”, the “positions with specific topics”, or both. In the latter case, the candidate may submit two different research projects indicating, in the file name of the additional one, “specific research topic scholarship”.

### MODALITY OF EVALUATION
- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

### OTHER LANGUAGE FOR THE EXAMINATION
English

### SKYPE INTERVIEW
YES – possible for foreign residents only
The oral test is also intended to verify candidate knowledge of the English language (level B2 or higher). Selection of applicants will follow a two-step evaluation (see scheme below).

**Step 1) Preselection for admission to the interview:** The Committee will evaluate:
1) CV (European format) with indication of qualifications (e.g. awards, certificates of research experience and/or attendance of courses relevant to Neuroscience) and all publications of the applicant.
2) Publications by the applicant attached to the application. Publications will contribute for a maximum of 3 (three) points. Technical reports and specialization thesis are not evaluated and should not be uploaded.
3) Research project in English. In this phase the project will be evaluated for its coherence with the Doctorate in Neurosciences and for its feasibility, in general and within the Tuscan Ph.D. in Neurosciences Program. (Note: the project presented will not necessarily be accepted as the final thesis project for the applicant, should he/she be accepted in the Ph.D. Program). Applicants receiving a score of at least 30/40 will be admitted to the interview.

**Step 2) Interview:** The interview will focus on a discussion of the research project presented. **Good knowledge of spoken and written English is required.**

### EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameters</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, qualifications, publications, Research Project redaction</td>
<td>30/120</td>
<td>40/120</td>
</tr>
<tr>
<td>Interview: discussion of the research project to assess applicant’s aptitude for research</td>
<td>50/120</td>
<td>80/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page:
https://www.neurofarba.unifi.it/vp-159-dottorato-toscano-di-neuroscienze.html

### EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>24 and 25 September 2018</td>
<td>9:00 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cubo Viale Pieraccini, 6 - Florence Aula A (first floor )</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p11361.html
**DOCTORAL PROGRAMME IN BIOMEDICAL SCIENCES**  
*Coordinator prof. Massimo Stefani*

### BIOMEDICAL AREA

<table>
<thead>
<tr>
<th>ADMINISTRATIVE OFFICE</th>
<th>Department of Experimental and Clinical Biomedical Sciences “Mario Serio”</th>
</tr>
</thead>
</table>

| CURRICULA | 1. Human morphology and morphogenesis  
2. Functional biology of biomolecules and biosystems  
3. Physiological and nutritional sciences  
4. Experimental pathology  
5. Endocrinological, molecular and regenerative biotechnologies  
6. Biomedical sciences of evolutive age  
7. Gender medicine |
|------------|--------------------------------------------------------------------------|

### POSITIONS AVAILABLE: 12

| Scholarships: 9 | 6 – University of Florence  
3 – Department of Experimental and Clinical Biomedical Sciences “Mario Serio” – Progetto Ministeriale “Dipartimenti di Eccellenza 2018–2022” |
|-----------------|--------------------------------------------------------------------------|

| Positions with scholarship: 9 |
| Positions without Scholarship: 3 |

### RESERVED POSITIONS

<table>
<thead>
<tr>
<th>NO</th>
</tr>
</thead>
</table>

### STUDY/RESEARCH PERIODS ABROAD

<table>
<thead>
<tr>
<th>Not required</th>
</tr>
</thead>
</table>

### DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION

| MANDATORY DOCUMENTS | Copy of the Identification Document  
Replacement Declaration Form  
Curriculum vitae  
Research project |
|---------------------|--------------------------------------------------------------------------|

<table>
<thead>
<tr>
<th>OPTIONAL DOCUMENTS</th>
<th>Publications and any other qualification documents</th>
</tr>
</thead>
</table>

### REFERENCE LETTERS

| A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course. |

### RESEARCH PROJECT

| The research project, written in English and of maximum 12,000 characters including spaces, which must include summary, introduction, methodology, expected results and references. The project must refer specifically to one or more of the working themes listed in the section below “Thematics”. |

### MODALITY OF EVALUATION

| Evaluation of curriculum vitae, research project, publications and other qualification documents,,  
Interview as detailed in the section below “Evaluation Marks” |
|--------------------------------------------------------------------------|

### OTHER LANGUAGE FOR THE EXAMINATION

<table>
<thead>
<tr>
<th>English</th>
</tr>
</thead>
</table>
THEMATICS

Curriculum in Human Morphology and Morphogenesis:
1) Systematic and topographic anatomy: anatomical variants of organs and apparatuses of anatomical relevance
2) Applied anatomy: anatomic characteristics and topographical relations of organs and apparatuses of interest for diagnostic imaging and clinical semeiotics
3) Morpho-functional histology and cytology: structure-function relationships and mechanisms of regulation in physiological conditions and in pathological models
4) Embryology and organogenesis: mechanisms of cell and tissue differentiation for regenerative medicine
5) Histochemistry: localization of specific functional molecules in cells and tissues by advanced microscopy methods

Curriculum in Functional Biology of Biomolecules and Biosystems:
1) Biophysics of proteins, lipid bilayers and biomembranes
2) Cell proteostasis and its regulation
3) Cell biology of amyloids and its relevance on associated systemic and neurodegenerative pathologies
4) Phospholipid signalling
5) Yeast and other model systems proteomics
6) Anti-aggregation power and nutraceutical properties of natural compounds

Curriculum in Physiological and Nutritional Sciences:
1) Molecular mechanism, regulation and mechanochemical coupling of striped muscle contraction
2) Electrophysiology and mechanics of smooth muscle
3) Nervous mechanisms involved in respiratory activity genesis and control
4) Components and strategies involved in motor control of the human voluntary movement
5) Pathophysiology of gastrointestinal apparatus and of nutrition and prevention of chronic-degenerative pathologies. Epidemiological and intervention studies on foods and alimentary profiles
6) Adaptations to muscle activity and to sport of musculoskeletal apparatus, respiratory and circulatory systems. Training methodologies

EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications and other qualification documents</td>
<td>–</td>
<td>20/120</td>
</tr>
<tr>
<td>Research Project redaction</td>
<td>–</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Only applicants reaching a minimal total score of 40/120 relative to the parameters curriculum/publications/project will be admitted to the interview

| interview: discussion of the project and publications | –       | 60/120        |

Eligibility is achieved with a minimum score of 80/120
Curriculum in Experimental Pathology
1) Molecular and cellular mechanisms of cancer transformation and progression
2) Cancer stamina cells; characterization and targets
3) Innovative approaches to cancer diagnosis and prognosis
4) Mechanisms of microbial pathogenicity
5) Antimicrobial drugs: mechanisms of action and resistance
6) Molecular and cellular mechanisms of aging and longevity

Curriculum in Endocrinological, Molecular and Regenerative Biotechnologies:
1) Pathophysiology of male reproductive apparatus and its accessory glands
2) Genetic aspects of male infertility
3) Control mechanisms of human spermatogenesis
4) DNA fragmentation in human spermatozoa: biochemical mechanisms and clinical meaning and significance
5) Pathophysiology of thyroid, hypophysis and adrenal gland
6) Pathophysiology of fat tissue

Curriculum in Biomedical Sciences of Evolutive Age:
1) Clinical biochemistry and modifications of cell and systemic redox status in human physiology and pathology
2) Innovative strategies for neoplastic and cardiovascular therapy by the use of plant polyphenols
3) Specific aspects of diagnostics, therapy and prevention in pediatrics
4) Hygiene public health and health organization
5) Detection of high priority malocclusions in evolutive age in orthodontics
6) Prevention of infective and chronic pathologies, vaccinations, food hygiene and public health laboratory

Curriculum in Gender Medicine:
1) Endocrinological aspects of the female vs male reproductive apparatus
2) Mechanisms of control of the female vs male sexuality
3) Endocrinological-metabolic control mechanisms of the female vs male reproduction
4) Endocrinological and gynecological aspects of the female oncologic pathology
5) Pathophysiology of the metabolic diseases in the female and the male

Further information available at the following web page: https://www.sbsc.unifi.it/vp-200-dottorato-in-scienze-biomediche.html

EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>14 September 2018</td>
<td>9:00 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cubo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viale Pieraccini, 6 – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“Auletta istologia”</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p11361.html
# Doctoral Programme in Clinical Sciences

**Coordinator prof. Marco Matucci Cerinic**

## Biomedical Area

**Administrative Office**
Department of Experimental and Clinical Medicine

## Curricula

- Clinical Pathophysiology and of Aging and Nursing Sciences
- Clinical and Experimental Medicine and Radiology
- Pathology and Clinic of the Locomotor Apparatus and the Calcified Tissues
- Anaesthetic and Surgical Sciences
- Psychology and Pain Management
- Global Health and International Cooperation on Mobile Populations

## Positions Available: 14

- Positions with scholarship: 11
- Positions without scholarship: 3*
  
  * standard ranking only

### Ranking List for Standard Positions - Scholarships Available: 10

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>University of Florence</td>
<td>&quot;Epidemiology and clinical features of the emergent and re-emergent infections in resident or migrant latino-american population&quot;</td>
</tr>
<tr>
<td>2</td>
<td>University of Florence – Progetto Ministeriale “Dipartimenti di Eccellenza 2018–2022”</td>
<td>&quot;Diagnostic approach to emergent and re-emergent infections in resident or migrant latino-american population&quot;</td>
</tr>
<tr>
<td>3</td>
<td>Tuscan Transplantation Organisation (OTT) – Careggi Hospital</td>
<td>&quot;Masté project: from the epidemiological investigation on the prevalence of the two major hepatic viruses, HBV e HCV, in migrants of the florentine area, to the inclusion of infected patients in accessible and fair therapeutic pathways&quot;</td>
</tr>
</tbody>
</table>

### Ranking List for Positions with Specific Research Topics - Scholarship Available: 1

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
<td>&quot;Paleopathology: Characterisation of the human paleomicrobiome and the immune response through the development of silico interaction models&quot;</td>
</tr>
</tbody>
</table>

## Reserved Positions

No

## Study/Research Periods Abroad

Not required

## Documents to Be Enclosed with the Application

**Mandatory Documents**

- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae et studiorum
- Research project

**Optional Documents**

- Publications and any other qualification documents
• List of taken exams with grades for the Master of Science (M.Sc.) degrees (or equivalent)
• Title of the M.Sc. Thesis
• Copy of the M.Sc. Thesis
• Abstract of the M.Sc. Thesis

REFERENCE LETTERS
A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates' training path and activities performed within a scientific field related to the Ph.D. course.

RESEARCH PROJECT
The project must be in English (maximum 12,000 characters with spaces included) with the following outline:
- summary
- background
- aims and objectives
- methodology
- expected results
- references

The project needs to address one of the specific thematics of the Ph.D. programme. At evaluation the following elements will be considered: quality, presentation, innovation, internationalisation.

MODALITY OF EVALUATION
• Evaluation of curriculum vitae, research project, publications and other qualification documents
• Interview as detailed in the section below “Evaluation Marks”

OTHER LANGUAGE FOR THE EXAMINATION
English

SKYPE INTERVIEW
NO

EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications and other qualification documents, research project</td>
<td>30/100</td>
<td>50/100</td>
</tr>
<tr>
<td>Applicants who obtain a score of at least 30/100 in the evaluation of the above parameters will be admitted to the interview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interview: discussion of the research project</td>
<td>30/100</td>
<td>50/100</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 60/100

THEMATICS
Curriculum in Clinical physiopathology, aging and nursing sciences

Nursing area
1. Organ donation in nursing sciences
2. Clinical risk in nursing sciences
3. Nursing Management of signs and symptoms

Medical Area
1. Pathogenetic and Therapeutic Mechanisms of immunovascular diseases
2. Physiopathology of atherosclerosis
3. Mechanisms of action, efficacy and safety of antithrombotic therapy
4. Physiopathology of acute coronary syndromes
5. Atherogenic dyslipidemias: from the genetic diagnosis to the treatment
6. Venous thromboembolic disease: new pathogenetic mechanisms
7. Aging and age correlated disease biomolecular mechanisms  
8. Physiopathology and clinical epidemiology of age correlated fragility and disability  
9. Aging of cardiovascular system and age correlated myocardopathies  
10. Physiopathology and clinical epidemiology of the cognitive decline in the elderly  
11. The management of major traumas in Italy and Europe  
12. Development of new methodologies of advanced simulation for the implementation of the trauma team efficiency  

**Curriculum in Clinical and Experimental Medicine and Radiology:**  
1. The biological bases (cellular, molecular, genetic, metabolic, microbiologic, hormonal) of immune disregulaed diseases (chronic inflammatory diseases, immunodeficiencies, cancer, chronic autoimmunity)  
2. Biomarkers phenotipization, gender and precision therapies in immunodisregulated diseases  
3. The role of the new MRI (Diffusion, Perfusion, Spectroscopy) and CT parameters (Perfusion with techniques of reduction of the dose in MultiSlice–CT and ConeBeam–CT) in the pre and post therapy evaluation of the different anatomic areas (neuro and head, heart and chest, abdomen and pelvis)  
4. New Imaging techniques in the evaluation of skin, lung, and microcirculation of fibrosing autoimmune diseases  
5. Study of genetic bases and clinical/laboratory stratification of common variable immunodeficiency as prototype of immunodisregulation diseases, infections, autoimmunity and tumors  
6. Predisposing factors, physiopathology, organ involvement and therapeutic approaches to autoimmunity  
7. Predisposing factors, physiopathology, and innovative therapeutic approaches in Allergic diseases  
8. Predisposing factors, physiopathology, and innovative therapeutic approaches in fibrosing autoimmune diseases  
9. Study of the correlation between the immune system and the microbiota in the genesis of chronic inflammatory diseases and neoplasias  
10. Study of the intratumoral and peripheric immune response in solid tumors  
11. Translational aspects of chronic hepatopathies and primitive tumors of the liver  
12. Cancer immunotherapy: strategies of implementation and personalisation of the treatment  
13. Oncogenesis and biomarkers of neoplastic evolution secondary to hepatic viruses  
14. Cryoglobulinemic syndromes and lymphoproliferative disorders in hepatic viruses infections  
15. Immunotherapy in autoimmunity and rare immunomediated diseases  
16. New classification and organ involvement in rheumatic diseases  

**Curriculum in Clinical Pathology, in Musculoskeletal diseases and calcified tissues**  
1. Innovative surgical methodologies of protesic surgery  
2. Biomaterials for orthopedic surgery  
3. Analisis and evaluation of prostheses interaction  
4. Mineral and bone metabolism in clinical models of the diseases of the calcified tissues
Curriculum in Anesthesiology and Surgery

**Surgical area**
1. New miniinvasive technology in general, urologic and vascular surgery
2. Molecular precision medicine in gastrointestinal oncology
3. Guided surgery guided by the virtual reality in 3D-D
4. New technology in the miniinvasive and conservative surgery in Crohn disease
5. Optimization of the surgical procedure in the pre–, intra– e postsurgical phase in IBD
6. Role of simulation in the learning of new surgical techniques
7. The development of renal trapiantology: from immunotherapy to surgery
8. Technological innovations in the surgical treatment of benign prostate hypertrophy
9. Gender dysphoria: from psychological to surgery problems

**Anesthesiology Area**
1. Advantages and limits of the use of long term central venous catheterism
2. The pathways of perioperatory medicine
3. Perioperative acute renal damage perioperatorio in high complexity interventions

Curriculum in Psychology and Pain Therapy

1. The role of neuronal and non-neuronal TRP channels in inflammatory neuropathic and oncologic pain
2. Molecular bases of the GGRP dependent mechanism in the genesis of pain in headache
3. Psychological and Psychosocial mechanisms implicated in the onset and maintenance of pain and disease
4. Research methods in clinical and health psychology
5. Psychological interventions in chronic and non-chronic pain disturbances

Curriculum in global health and International cooperation on mobile populations

1. Epidemiology and clinics of emergent/reemergent infections in countries with a medium low income and in mobile/migrant populations
2. Diagnostic approach emergent/reemergent infections in countries with a medium low income and in mobile/migrant populations
3. Parasitoses and allergic diseases in countries in development and in mobil epopulations
4. Tuberculosis and host response in countries with a medium low income and in mobile/migrant populations
5. Allergic diseases in mobile populations

Further information available at the following web page:
https://www.dmsc.unifi.it/vp-319-nuova-pagina-dottorato.html

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**EXAMINATION SCHEDULE**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>18 September 2018</td>
<td>8:30 a.m.</td>
</tr>
<tr>
<td>CUBO</td>
<td>Viale Pieraccini, 6 – Florence</td>
<td></td>
</tr>
<tr>
<td></td>
<td>“Aula Piccola”</td>
<td></td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p11361.html
# Doctoral Programme in Physics and Astronomy

*Coordinator prof. Raffaello D'Alessandro*

## Scientific Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Physics and Astronomy</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Curricula</th>
<th>NO</th>
</tr>
</thead>
</table>

## Positions Available: 10

- Positions with Scholarship: 8
- Positions without Scholarship: 2

### Scholarships: 8

- 5 – University of Florence
- 1 – Department of Physics and Astronomy
- 2 – Istituto Nazionale di Fisica Nucleare (I.N.F.N.)

## Reserved Positions

No

## Study/Research Periods Abroad

Not required

## Documents to be Enclosed with the Application

### Mandatory Documents

- Copy of the Identification Document (ID Card, Passport, etc.)
- Replacement Declaration Form declaration, in lieu of certification, of the list of taken exams with accompanying grades for the Bachelor of Science (B.Sc.) and for the Master of Science (M.Sc.) degrees (or equivalent), and the title of the thesis, (independently of whether the applicant has yet to defend his Thesis)
- Curriculum vitae et studiorum
- Research project

### Optional Documents

- List of publications
- Other qualification documents

## Reference Letters

A dedicated section in the online application, must be used to specify the e-mail addresses of two professors/researchers willing to provide information about the candidate University history and his research activities within a scientific field related to the Ph.D. course of the Department of Physics and Astronomy.

## Research Project

The Research Project must be at most two A4 pages long. The Project may be written in Italian or English.

## Modality of Evaluation

- Evaluation of the curriculum, of the research project and of the other qualification documents
- Interview as detailed in the section below "evaluation marks"

## Other Language for the Examinations

English
### SKYPE INTERVIEW

**YES** – possible for foreign residents only

### TITLES AND QUALIFICATION DOCUMENTS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research project</td>
<td>–</td>
<td>6</td>
</tr>
<tr>
<td>Publication and other qualification documents</td>
<td>–</td>
<td>4</td>
</tr>
<tr>
<td>Curriculum vitae et studiorum, references letters, and list of taken exams with accompanying grades</td>
<td>–</td>
<td>38</td>
</tr>
</tbody>
</table>

Applicants who obtain a mark of at least 32/120 in the evaluation of the above parameters will be admitted to the interview.

### INTERVIEW

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interview: discussion of the research project, the qualification documents presented and publications</td>
<td>48</td>
<td>72</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120.

### FURTHER INFORMATION ON THE EVALUATION PROCESS

The two reference letters are to be used in the evaluation of the applicant titles.

### THEMATICS

The interview will concern the research project, the thesis work, and basic physics knowledge used in the thesis.

Further information available at the following website page:

https://www.fisica.unifi.it/vp-26-dottorato-in-fisica-e-astronomia.html

### EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>4 September 2018</td>
<td>9:00 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Physics and Astronomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Via Sansone, 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sesto Fiorentino – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Room 281</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page:

https://www.unifi.it/p11361.html
<table>
<thead>
<tr>
<th><strong>SCIENTIFIC AREA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ADMINISTRATIVE OFFICE</strong></td>
</tr>
</tbody>
</table>
| **PARTNERS INSTITUTIONS** | Universidad Complutense de Madrid  
Imperial College of London |
| **CURRICULA** | NO |

<table>
<thead>
<tr>
<th><strong>POSITIONS AVAILABLE: 9</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Positions with Scholarship: 7</td>
</tr>
<tr>
<td>Positions without Scholarship: 2*</td>
</tr>
</tbody>
</table>

*standard ranking

<table>
<thead>
<tr>
<th>Ranking List for STANDARD POSITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships available: 6</td>
</tr>
<tr>
<td>1 – University of Florence</td>
</tr>
<tr>
<td>5 – European Laboratory for Non-linear Spectroscopy (LENS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>scholarship available: 1</td>
</tr>
<tr>
<td>1 - University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
</tr>
<tr>
<td>“Towards the artificial heart: smart biomaterials for the development of new epicardial devices”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>RESERVED POSITIONS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>STUDY/RESEARCH PERIODS ABROAD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>MANDATORY PERIOD REQUIRED</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 months in foreign laboratories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MANDATORY DOCUMENTS</strong></td>
</tr>
<tr>
<td>- Copy of the Identification Document</td>
</tr>
<tr>
<td>- Replacement Declaration Form</td>
</tr>
<tr>
<td>- Curriculum vitae</td>
</tr>
<tr>
<td>- Research Project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OPTIONAL DOCUMENTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>- List of publications (in English)</td>
</tr>
<tr>
<td>- Qualification documents (in English)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>REFERENCE LETTERS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>RESEARCH PROJECT AND DOCUMENTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Candidate shall present a Research Project for her/his activity during the three years Ph.D.. The project must be two A4 pages. The project, the CV and all the other titles should be written in English.</td>
</tr>
</tbody>
</table>
**MODALITY OF EVALUATION**
- evaluation of the curriculum, of the research project, and of the scientific qualifications documents
- **Interview** as detailed in the section below “evaluation marks”.

**LANGUAGE FOR THE INTERVIEW**
English for all applicants

**SKYPE INTERVIEW**
YES – possible for foreign residents only

**FURTHER INFORMATION ABOUT EXAMINATION**
Interview will be focused on the discussion of the research project and on the curriculum submitted by the candidate. Candidates interested in the specific research topic scholarship will be required to answer questions on smart bio-materials.

<table>
<thead>
<tr>
<th>EVALUATION MARKS</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, qualification documents</td>
<td>13/120</td>
<td>20/120</td>
</tr>
<tr>
<td>Project research</td>
<td>27/120</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Applicants who obtain at least 40/120 marks in the evaluation of the above parameters will be admitted to the interview

Interview | 40/120 | 60/120 |

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page: [http://phd.lens.unifi.it/](http://phd.lens.unifi.it/)

**EXAMINATION SCHEDULE**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>10 September 2018</td>
<td>9:00 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Via N. Carrara 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sesto Fiorentino - Florence</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# International Doctorate in Structural Biology

**Coordinator prof. Claudio Luchinat**

## Scientific Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Magnetic Resonance Center (CERM)</th>
</tr>
</thead>
</table>

## Partners Institutions

- Utrecht University
- University of Frankfurt

## Curricula

- No

## Positions Available: 6

- Positions with Scholarship: 5
- Position without Scholarship: 1*

* standard ranking only

### Ranking List for Standard Positions

<table>
<thead>
<tr>
<th>Scholarships available: 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 – University of Florence</td>
</tr>
<tr>
<td>2 – Interuniversity Consortium for Magnetic Resonance of Metal Proteins (CIRMMP)</td>
</tr>
<tr>
<td>1 – Co-financed CIRMMP - Department of Chemistry “Ugo Schiff” and Fondazione Ente Cassa di Risparmio</td>
</tr>
</tbody>
</table>

### Ranking List for Positions with Specific Research Topics

- Scholarship available: 1

  - University of Florence – **Fondo Pluriennale Piano Strategico 2018**
  - “Metabolomic approach for the prediction of clinic outcome and mortality in patients with ischemic stroke”.

## Reserved Positions

- No

## Study/Research Periods Abroad

- Yes

## Mandatory Period Required

- 3 months in foreign laboratories

## Documents to Be Enclosed with the Application

### Mandatory Documents

- Copy of the Identification Document
- **Replacement Declaration Form**
- Curriculum vitae
- Research Project
- The list of taken exams with accompanying grades for the Bachelor of Science (B.Sc.) and for the Master of Science (M.Sc.) degrees (or equivalent)

### Optional Documents

- List of publication
- Qualification documents

## Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.
**RESEARCH PROJECT AND DOCUMENTS**

The research project, of maximum length of 1,000 words, references excluded, should describe a possible research activity that could be developed during the Ph.D. course. For the position with a specific research topic, the project should be as close as possible to the topic of the position. The same project can be presented for both the position for a specific research topic and for the standard positions. All the documentation requested must be written in English.

**MODALITY OF EVALUATION**

- **Interview** including the evaluation of curriculum vitae, research project, publications and other qualification documents, as detailed in the section below “Evaluation Marks”

**LANGUAGE FOR THE INTERVIEW**

English for all applicants

**SKYPE INTERVIEW**

YES – possible for foreign residents only

**FURTHER INFORMATION ABOUT EXAMINATIONS**

The research project will be discussed and evaluated during the interview. During the interview, the Commission will also evaluate the ability of the candidate to perform a scientific research in structural biology or related fields, in consideration of the received training, of the reasoning skills on a thematic of interest of the candidate and on the submitted research project. For the position with a specific research topic, during the interview, the knowledge of the candidate regarding the topic of the position will also be evaluated.

**EVALUATION MARKS**

| Evaluation of Curriculum vitae, publications, qualification documents and research project | - | 60/120 |
| Interview | - | 60/120 |

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page: [http://www.cerm.unifi.it/about-cerm/international-doctorate](http://www.cerm.unifi.it/about-cerm/international-doctorate)

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**EXAMINATION SCHEDULE**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>6 September 2018</td>
<td>11:30 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Magnetic Resonance Center (CERM)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Via Luigi Sacconi, 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sesto Fiorentino (FI)</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the interview and the final ranking will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
## Doctoral Programme in Mathematics, Computer Science, Statistics

**Coordinator prof. Paolo Salani**

### Scientific Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Mathematics and Computer Science “U. Dini”</th>
</tr>
</thead>
</table>
| Partners Institutions | University of Perugia  
Istituto Nazionale di Alta Matematica “F. Severi” (INDAM) |

### CURRICULA

1. Mathematics  
2. Computer Science  
3. Statistics

### Positions Available: 15

- Positions with Scholarship: 12
- Positions without Scholarship: 3*  
  * standard ranking

#### Ranking List for Standard Positions

- Scholarships available: 8
  3 – University of Florence  
  3 – University of Perugia  
  2 – Istituto Nazionale di Alta Matematica “F. Severi” (INDAM)

#### Ranking List for Positions with Specific Research Topics

- Scholarship available: 1
  Thematic: “Data Science”  
  The Ph.D. student will be involved in the development of innovative statistical learning methods, and computationally efficient algorithms, for the analysis of high-dimensional data and data with complex structures to support research in substantive fields.

#### Ranking List for Reserved Positions

- Positions with scholarship available: 3
  University of Florence  
  These positions are reserved to applicants who have obtained in a foreign University the degree required to be admitted to the Ph.D. courses.

### Study/Research Periods Abroad

- Not required

### Documents to be Enclosed with the Application

- **Mandatory Documents**
  - Copy of the Identification Document  
  - Replacement Declaration Form  
  - Curriculum vitae  
  - Research Project

- **Optional Documents**
  - List of publications  
  - Qualification documents

### Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.
RESEARCH PROJECT

The research project, consisting of 5,000 characters maximum, will be discussed and evaluated during the interview, and will contribute to the evaluation of the aptness of the applicant for research.

MODALITY OF EVALUATION

STANDARD POSITIONS AND SPECIFIC POSITION

- Written examination
- Interview along with the evaluation of the curriculum, of the research project and of the scientific qualifications documents as detailed in the section below “evaluation marks”

RESERVED POSITIONS

- Evaluation of the curriculum, of the research project, and of the scientific qualifications documents as detailed in the section below “evaluation marks”
- Interview

OTHER LANGUAGE FOR THE Examinations

English

SKYPE INTERVIEW

YES – for candidates not resident in Italy who apply for reserved positions only

INFORMATION ABOUT EXAMINATIONS

The written examination is a comprehensive exam that assesses the knowledge of basic concepts of the involved disciplines. Examples of previous written examinations can be found at: https://www.dimai.unifi.it/vp-140-ammissione-al-dottorato.html

The interview is aimed to evaluate the basic preparation and the research potential of the candidate and to discuss the research project, curriculum and other possible qualifications. In the case of applicants for the “Data Science” position, the interview will have an additional part regarding the specific topic.

EVALUATION MARKS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written examination</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview: curriculum vitae, scientific qualification documents, research project</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, scientific qualification documents, research project</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page:
https://www.dimai.unifi.it/vp-26-dottorati.html
## EXAMINATIONS SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD POSITIONS AND SPECIFIC POSITION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WRITTEN EXAMINATION</td>
<td>10 September 2018</td>
<td>12:30 p.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Mathematics and Computer Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viale Morgagni 67/A – Florence</td>
</tr>
<tr>
<td>INTERVIEW</td>
<td>12 September 2018</td>
<td>9:00 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Mathematics and Computer Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viale Morgagni 67/A – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(or by Skype)</td>
</tr>
<tr>
<td><strong>RESERVED POSITIONS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INTERVIEW</td>
<td>13 September 2018</td>
<td>9:00 a.m. (italian time)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Mathematics and Computer Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Viale Morgagni 67/A – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(or by Skype)</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the written examination will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)

The list of candidates admitted to the oral test will be published online at the following web page: [https://www.dimai.unifi.it/vp-26-dottorati.html](https://www.dimai.unifi.it/vp-26-dottorati.html)

The final ranking will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Chemical Sciences

**Coordinator prof. Piero Baglioni**

## Scientific Area

**Administrative Office**
Department of Chemistry “Ugo Schiff”

## Curricula
1. Chemistry
2. Science for the Conservation of Cultural Heritage

## Positions Available: 10

- Positions with Scholarship: 8
- Positions without Scholarship: 2

### Scholarships: 8
- 6 – University of Florence
- 1 – Department of Chemistry “Ugo Schiff” – Thematic: “Electrodeposition and characterization of surfaces of industrial and technological interest”
- 1 – Department of Chemistry “Ugo Schiff” – Thematic: “Investigation on molecular magnetic systems of interest in quantum technology and spintronic”

## Reserved Positions

No

## Study/Research Periods Abroad

Not required

## Documents to Be Enclosed with the Application

### Mandatory Documents
- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae et studiorum
- List of taken exams with grades for the Master of Science (M.Sc.) degrees (or equivalent),
- Research project
- Title and short summary (maximum five A4 sheets) of the Master thesis.

### Optional Documents
- List of publications
- Qualification documents

## Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.

## Research Project

The research project must be written in English in no more than 12,000 characters including spaces, comprising abstract, introduction and references, in order to assess the applicant’s aptitude to research.

## Modality of Evaluation
- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”
The interview may be given in English. If given in Italian, the interview will include an assessment of English language proficiency.

SKYPE INTERVIEW
YES – possible for foreign resident only

<table>
<thead>
<tr>
<th>EVALUATION MARKS</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae; publications, student career qualification documents</td>
<td>40/120</td>
<td>60/120</td>
</tr>
<tr>
<td>Interview: discussion of the research project, the qualification documents and publications</td>
<td>40/120</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Further information available at the following website page:
https://www2.chim.unifi.it/cmpro-v-p-218.html

EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>5 September 2018</td>
<td>10:00 a.m. Department of Chemistry “Ugo Schiff” Via della Lastruccia, 3-13 Sesto Fiorentino – Florence</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following website page: https://www.unifi.it/p11361.html
## Doctoral Programme in Political and Social Change

**Coordinator prof. Dimitri D’Andrea**

### Social Sciences Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Political and Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partner Institutions</td>
<td>University of Turin - Department of Cultures, Politics and Society</td>
</tr>
<tr>
<td>Curricula</td>
<td>No</td>
</tr>
</tbody>
</table>

### Positions Available: 8

- **Positions with Scholarship:** 8
- **Positions without Scholarship:** not foreseen

#### Ranking List for Standard Positions

<table>
<thead>
<tr>
<th>Scholarships available: 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 – University of Florence</td>
</tr>
<tr>
<td>3 – University of Turin</td>
</tr>
<tr>
<td>1 – University of Turin - Department of Cultures, Politics and Society</td>
</tr>
</tbody>
</table>

**Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”**

The research project aimed at analyzing, on a theoretical and empirical level, social problems of great collective importance, to be investigated with a multidisciplinary approach, according to a stakeholder-oriented logic and a public social science approach.

#### Ranking List for Positions with Specific Research Topics

<table>
<thead>
<tr>
<th>Scholarship available: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Florence – Fondop Pluriennale Piano Strategico 2018</td>
</tr>
<tr>
<td>“Beyond Rational Actor Theories”</td>
</tr>
</tbody>
</table>

### Reserved Positions

**No**

### Study/Research Periods Abroad

**Yes**

### Mandatory Period Required

3 months

### Documents to Be Enclosed with the Application

**Mandatory Documents**

- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae et studiorum
- Transcript of records of B.Sc. and M.Sc. degree with grades
- Abstract of M.Sc. degree thesis
- Research Project

**Optional Documents**

- Copy of a chapter of M.Sc. dissertation in .pdf format;
- List of any additional qualification document and scientific publication
**REFERENCE LETTERS**

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.

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**RESEARCH PROJECT**

Research project, in no more than 30,000 characters including blanks (bibliography not included). Candidates can present a research project for each ranking. For the candidates who are competing for the specific thematic "Beyond Rational Actor Theories" the project will deal with the theoretical approaches that, starting from the beginning of the twentieth century, have highlighted the analytical limits of the rational actor paradigm, opening unprecedented research perspectives on the social action and social actor and effectively contributing to the reinterpretation of the classics of the action theory.

For candidates who are competing for the specific thematic “Theory for applied social research”, the research project aimed at analyzing, on a theoretical and empirical level, social problems of great collective importance, to be investigated with a multidisciplinary approach, according to a stakeholder-oriented logic and a public social science approach. By way of example, privileged perspectives of study can be: decision-making processes related to complex phenomena in the economic, political and social sphere; public and media representation of specific problems; the definition and redefinition of the public agenda; the unexpected effects and unintended consequences of certain choices; impact and evaluation of public policies; the processes of economic and social innovation; the problems emerging at different territorial scales; the changes brought about by new digital technologies; the new forms of connection between economy, politics and society, the role of public opinion in the social-political arena and in decision-making processes.

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**MODALITY OF EVALUATION**

- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

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**OTHER LANGUAGE FOR THE EXAMINATIONS**

English

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**SKYPE INTERVIEW**

YES – possible for foreign resident only

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**FURTHER INFORMATION ABOUT EXAMINATION**

The interview consists on the discussion of publications, qualification documents, research project, as well as the discussion on the texts listed in the section below “Thematics”. For the position with a specific research topic, during the interview, the knowledge of the candidate regarding the thematic of the scholarship will also be evaluated.
### EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum, publications, qualification documents</td>
<td>15/120</td>
<td>20/120</td>
</tr>
<tr>
<td>Final grade, abstract of the MSc dissertation, chapter of MSc dissertation</td>
<td>35/120</td>
<td>50/120</td>
</tr>
</tbody>
</table>

Applicants obtaining a score of at least 50/120 in the evaluation of the two above mentioned parameters will be admitted to the interview.

Interview: discussion of publications, qualification documents, research project, and discussion of the texts

<table>
<thead>
<tr>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>30/120</td>
<td>50/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120.

### THEMATICS

- M. Weber, Protestant Ethics and the Spirit of Capitalism
- M. Weber, Politics as a Vocation
- J.J. Linz, Totalitarian and Authoritarian Regimes
- H. Arendt, On Revolution
- K. Polanyi, The Great Transformation
- R. Boudon, Theories of Social Change: a Critical Appraisal
- P. Berger e T. Luckmann, The Social Construction of Reality
- N. Elias e J. L. Scotson, The Established and the Outsiders
- H. S. Becker, Tricks of the Trade. How to Think About your Research While You’re Doing it

Scholarship with specific research topic “Theory for applied social research”

By way of example, privileged perspectives of study can be: decision-making processes related to complex phenomena in the economic, political and social sphere; public and media representation of specific problems; the definition and redefinition of the public agenda; the unexpected effects and unintended consequences of certain choices; impact and evaluation of public policies; the processes of economic and social innovation; the problems emerging at different territorial scales; the changes brought about by new digital technologies; the new forms of connection between economy, politics and society, the role of public opinion in the social-political arena and in decision-making processes.

Further information available at the following web page:

### EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>21 September 2018</td>
<td>9:00 a.m. Department of Political and Social Sciences Via delle Pandette, 32 - Florence</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following web page: https://www.unifi.it/p11361.html
## SOCIAL SCIENCES AREA

### ADMINISTRATIVE OFFICE
Department of Legal Sciences (DSG)

### PARTNERS INSTITUTIONS
Concerning the International Curriculum in Theory and History of Law – Theory and History of Human Rights:
- University of Paraná - Curitiba (Brazil)
- University Federal University of Paraíba - João Pessoa (Brazil)

### CURRICULA
1. Criminal Law and Criminal Procedure
2. Private Law
3. International and European Union law
4. Public Law – Town Planning Law and Environmental Law
6. Comparative Law

### POSITIONS AVAILABLE: 12
Positions with Scholarship: 9
Position without Scholarship: 3*
* standard ranking only

<table>
<thead>
<tr>
<th>Ranking List for STANDARD POSITIONS scholarships available: 7</th>
<th>University of Florence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS scholarships available: 2</td>
<td></td>
</tr>
<tr>
<td>1 – Centro Studi per la Storia del Pensiero Giuridico Moderno – Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”</td>
<td></td>
</tr>
<tr>
<td>&quot;The historicity of the European legal dimension with special reference to welfare rights: development ad crisis”</td>
<td></td>
</tr>
<tr>
<td>1 – University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
<td></td>
</tr>
<tr>
<td>&quot;Hydrogeological instability in the Florence area: science and law at the service of the prevention and management of natural phenomena”</td>
<td></td>
</tr>
</tbody>
</table>

### RESERVED POSITIONS
NO

### STUDY/RESEARCH PERIODS ABROAD
YES – only for the curriculum in Theory and History of Law – Theory and History of Human Rights (International)

### MANDATORY PERIOD REQUIRED
12 months – It is compulsory to complete one year of research in one of the universities that are parts to the agreement: University of Paraná (Curitiba, Brazil) e Federal university of Paraíba (João Pessoa, Brazil)

### DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION
**MANDATORY DOCUMENTS**
- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae, with an abstract of the final degree paper (if any) of
<table>
<thead>
<tr>
<th>RESEARCH PROJECT</th>
<th>The research project, of at most 5 pages, indicating with sufficient precision the subject, the objectives and the methodology, which will be discussed during the interview.</th>
</tr>
</thead>
</table>
| MODALITY OF EVALUATION | • **Written examination**
  • **Interview** along with the evaluation of the curriculum, of the research project and of the scientific qualifications documents as detailed in the section below “evaluation marks” |
| OTHER LANGUAGES FOR THE EXAMINATIONS | The written examination can be held as well in English or French. During the interview the knowledge of a foreign language chosen by the candidate between English, French, German and Spanish will be assessed. |
| SKYPE INTERVIEW | YES – possible for foreign residents only |
| FURTHER INFORMATION ABOUT EXAMINATIONS | The written examination will be separate for respectively the assessment of the applications related to the ordinary scholarships and the assessment of those related to the positions with specific research topics. The examination will take place over the same day, with a schedule allowing the participation to both. |
| EVALUATION MARKS | | |
| parameter | minimum score | maximum score |
| Written examination | 40/60 | 60/60 |
| Interview, curriculum vitae, research project, other qualification documents | 40/60 | 60/60 |
| Eligibility is achieved with a minimum score of 80/120 |
| FURTHER INFORMATION ON THE EVALUATION PROCESS | The written section will assess the knowledge of the fundamental notions of each area, the capacity to develop arguments, and the familiarity with the system of sources and the main research lines. The oral section will assess the capacity to effectively present the research project, and to provide evidence of the knowledge of the related topics. |
| THEMATICS | The written section will turn around aspects specific to each curriculum and, in the case of the positions related to specific research topics, around profiles that are particularly relevant for these. |

Further information available at the following web page: [https://www.dsg.unifi.it/vp-26-dottorato-in-scienze-giuridiche.html](https://www.dsg.unifi.it/vp-26-dottorato-in-scienze-giuridiche.html)
<table>
<thead>
<tr>
<th>EXAMINATIONS SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>WRITTEN EXAMINATION</td>
</tr>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>INTERVIEW</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the written test will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)

The list of the candidates admitted to the oral test will be published online at the following website page: [https://www.dsg.unifi.it/vp-26-dottorato-in-scienze-giuridiche.html](https://www.dsg.unifi.it/vp-26-dottorato-in-scienze-giuridiche.html)

The final ranking will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# DOCTORAL PROGRAMME IN ARCHITECTURE

**Coordinator prof. Giuseppe De Luca**

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## TECHNOLOGICAL AREA

<table>
<thead>
<tr>
<th>ADMINISTRATIVE OFFICE</th>
<th>Department of Architecture</th>
</tr>
</thead>
</table>

## CURRICULA

1. Urban and Architectural planning and Design  
2. Technologies of Architecture  
3. History of Architecture and of the City  
4. Design  
5. Architectural and Environmental Survey and Representation  
7. Landscape Architecture  
8. Urban and Regional Planning

## POSITIONS AVAILABLE: 12

- Positions with Scholarship: 9  
- Positions without Scholarship: 3

Scholarships: 9  
University of Florence

## RESERVED POSITIONS

NO

## STUDY/RESEARCH PERIODS ABROAD

YES - only positions with scholarship

## MANDATORY PERIOD REQUIRED

3 months

## DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION

### MANDATORY DOCUMENTS
- Copy of the Identification Document  
- **Replacement Declaration Form**  
- Research Project  
- Curriculum vitae, related to training activities and research carried out by the candidate, of maximum two folders, as well as an indication of the foreign language (Ita/Eng) chosen for verification

### OPTIONAL DOCUMENTS
- Any other qualification document (if any)

## REFERENCE LETTERS

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.
RESEARCH PROJECT

The application must be accompanied by a research project, organized according to the points listed as follow:

- applicant’s name and surname;
- title of the research project and curriculum (indicate only one of the eight present curriculum);
- summary and key words (identification of the research problem, main expected results, originality - max 500 characters, spaces included);
- description of the research project (detailed description of the project with emphasis on the innovative aspects and scientific importance - min 5,000 / max 12,000 characters, (including spaces);

The project description should include:

- organization of the scientific problem and connected questions, with reference to the state of art;
- objectives and expected results;
- methodology and activities (with an indication of the tools that you deem necessary for the performance, already owned or to be acquired);
- cultural and social interest and in the scientific community (expected scientific impact);
- bibliography.

MODALITY OF EVALUATION

- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

OTHER LANGUAGE FOR THE EXAMINATIONS

English

SKYPE INTERVIEW

YES – possible for foreign residents only

EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, other qualification documents</td>
<td>10/120</td>
<td>20/120</td>
</tr>
<tr>
<td>Research Project</td>
<td>30/120</td>
<td>40/120</td>
</tr>
<tr>
<td>Applicants who obtain a mark of at least 40/120 according to the minimum score for each parameter will be admitted to the interview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interview (including discussion of the research project)</td>
<td>40/120</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

FURTHER INFORMATION ON THE EVALUATION PROCESS

Research projects will be evaluated as a priority in the lines of work already present in the curricula

THEMATICS

The primary strategic objective of the Ph.D. programme in Architecture, in cultural and economic terms and both at a national and supranational level, is the conservation and sustainable valorization of the cultural heritage, from
For this reason it is advisable to consult the individual web pages of the curricula in which the main lines of research are shown active:

http://www.dida.unifi.it/vp-352-dottorato-di-architettura.html

Further information available at the following web page:
http://www.dida.unifi.it/vp-352-dottorato-di-architettura.html

<table>
<thead>
<tr>
<th>EXAMINATION SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
</tr>
<tr>
<td>INTERVIEW</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Sustainable Management of Agricultural Resources, Forestry and Food

*Coordinator prof. Susanna Nocentini*

## Technological Area

**Administrative Office**

Department of Agricultural, Food and Forestry Systems

## Curricula

1. Wine Economics and Rural Development
2. Forest Economics, Planning and Wood Science
3. Agricultural and Forest Engineering
4. Food Science and Technology

## Positions Available: 8

- Positions with Scholarship: 6
- Positions without Scholarship: 2*  

*standard ranking only

### Ranking List for Standard Positions

<table>
<thead>
<tr>
<th>Scholarship available: 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 – University of Florence</td>
</tr>
<tr>
<td>1 – Department of Agricultural, Food and Forestry Systems</td>
</tr>
</tbody>
</table>

Thematic: “Global Important Agricultural Heritage Systems: planning and management tools for their conservation” (The research activity concerns the FAO “Global Important Agricultural Heritage Systems”, land use systems and landscapes which are rich in biological diversity evolving from the co-adaptation of a rural community with its environment. It will focus on the identification of GIAHS sites, developing planning and management tools for their conservation).

### Ranking List for Positions with Specific Research Topics

<table>
<thead>
<tr>
<th>Scholarship available: 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
</tr>
</tbody>
</table>

“Implicit and explicit measurements of sensory, affective and attentional responses to vegetable foods in pre-adolescent”

### Reserved Positions

**No**

### Study/Research Periods Abroad

**Yes** – mandatory only for positions with scholarship

### Mandatory Period Required

3 months

### Documents to Be Enclosed with the Application

**Mandatory Documents**

- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae (European format)
- Research Project

**Optional Documents**

- List of publications
- Any other scientific qualification document

### Reference Letters

Candidates can provide, through a special section of the online application form, the e-mail address of one professor/researcher willing to provide information about the candidate’s education and research activities in a
### RESEARCH PROJECT

The research project must refer to one of the research topics of the PhD program ([http://www.phd.gesaaf.unifi.it/ls-18-curricula.html](http://www.phd.gesaaf.unifi.it/ls-18-curricula.html)) or to the specific research topic and must be included in the application form. The project can be written in Italian or English, and should be organized in the following sections: title, research question and state of the art, aims, materials and methods, expected results, cited references. The project should not exceed 12000 characters including spaces (not including references, tables and figures). The project will not necessarily be the PhD thesis project of the candidate, should he/she be accepted in the program.

### MODALITY OF EVALUATION

- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

### OTHER LANGUAGE FOR THE EXAMINATIONS

English

### SKYPE INTERVIEW

YES – possible for foreign residents only

### FURTHER INFORMATION ON THE EXAMINATION

Interview will be held in English or Italian. If it will be held in Italian, a supplementary test regarding English language will be held.

### EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, scientific qualification documents</td>
<td>10/120</td>
<td>20/120</td>
</tr>
<tr>
<td>Research Project</td>
<td>30/120</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Applicants who obtain a mark of at least 40/120 in the evaluation of the above parameters will be admitted to the interview.

| Interview: discussion of the research project and qualification documents | 40/120        | 60/120        |

Eligibility is achieved with a minimum score of 80/120

### FURTHER INFORMATION ON THE EXAMINATION

Evaluation of curriculum vitae, research project, publications, scientific qualification documents will take into account the candidate's preparation and skills in relation to the research topics of the curricula of the PhD program and of the scholarship with specific research topic.

### THEMATICS

Oral discussion of the research project and of the eventual other academic and scientific titles and publications will aim at evaluating the candidate's interest and motivation towards scientific research in the fields of interest of the PhD curricula and of the specific research topic scholarship.

Further information available at the following web page: [www.phd.gesaaf.unifi.it/changelang-ita.html](http://www.phd.gesaaf.unifi.it/changelang-ita.html)

### EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>SCHEDULE</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>24 September</td>
<td>9:30 a.m. Department of Agricultural, Food and Forestry Systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Piazzale delle Cascine, 18 - Florence</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Information Engineering

**Coordinator prof. Luigi Chisci**

<table>
<thead>
<tr>
<th>Technological Area</th>
<th>Department of Information Engineering</th>
</tr>
</thead>
</table>
| **Curricula**       | 1. Control, Optimization and Complex Systems  
                      2. Electronics, Electromagnetics and Electrical Systems  
                      3. Computer Engineering  
                      4. Telecommunications and Telematics |

## Positions Available: 8

- Positions with Scholarship: 6
- Positions without Scholarship: 2

<table>
<thead>
<tr>
<th>Ranking List for Standard Positions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships available: 6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reserved Positions</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Study/Research Periods Abroad</th>
<th>No</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mandatory Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy of the Identification Document</td>
</tr>
<tr>
<td>Replacement Declaration Form</td>
</tr>
<tr>
<td>Curriculum vitae including a list of publications and of the other qualification documents (if any)</td>
</tr>
<tr>
<td>Title and grades of Bachelor and Master Theses</td>
</tr>
<tr>
<td>Abstract of the Master Thesis</td>
</tr>
<tr>
<td>List of exams of Bachelor and Master Degrees with grades (documents should be either in Italian or in English)</td>
</tr>
<tr>
<td>Research proposal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy of the Master Thesis</td>
</tr>
</tbody>
</table>

## Research Project

The proposal must be in .pdf format, written either in Italian or in English. The proposal should describe a three-years project having a high potential for novel scientific contributions in the broad field of Information Engineering, but also in other fields provided that methodologies and/or technologies of Information Engineering are exploited. The proposal must include the specific reference to the curriculum and the chosen area of study listed in the below section “Thematics”

## Modality of Evaluation

- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

## Other Language for the Examination

- English
SKYPE INTERVIEW
YES – possible for foreign residents only

FURTHER INFORMATION ABOUT EXAMINATION
The interview will primarily concern a discussion on the research proposal presented by the candidate.

EVALUATION MARKS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, 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>
</tbody>
</table>

Applicants who obtain at least 27/120 marks in the evaluation of the two above parameters will be admitted to the interview.

| Interview: (including a discussion of the research proposal) | 26/120 | 40/120 |

Eligibility is achieved with a minimum score of 80/120

THEMATICS

Control, Optimization and Complex Systems
AREA 1 – CONTROL SYSTEMS: concerns analysis, modelling and synthesis of high-performance (possibly networked and hence subject to cyber attacks) automatic control, supervision and monitoring systems for processes that are only partially known, possibly distributed in space and subject to constraints, such as those encountered in industrial applications, robotics, bio-engineering, aerospace, electrical systems, etc.

AREA 2 – OPTIMIZATION: concerns the study of Operations Research models and their applications, as well as the development and the analysis of efficient optimization algorithms for the solution of complex problems. The optimization applications are found both in the field of automation systems as well as in the productive world, from logistics to transportation, to the supply-chain, in the networks of electrical energy management (“smart grids”) even in stochastic contexts and with multiple decision-makers (game theory).

AREA 3 – COMPLEX SYSTEMS: this research area is suitable for applicants with a strong background in Physics, Chemistry, Mathematics or Engineering who are willing to carry out research work of cross-disciplinary type. Training aims to deepen the more formal aspects of the analysis of complex systems. The research topic can concern methodological aspects, from dynamical systems to stochastic processes, including complex networks and their applications, from computer engineering to life science.

Electronics, Electromagnetics and Electrical Systems
AREA 1 – HIGH-FREQUENCY ELECTRONICS: concerns the analysis and design of electronic devices and systems at high frequency (from radio frequency to millimeter waves).

AREA 2 – DIGITAL ELECTRONIC SYSTEMS: concerns the analysis and design of electronic systems based on advanced digital components, with applications from biomedical to radar fields.

AREA 3 – ELECTROMAGNETICS: concerns the use and development of numerical techniques for the analysis and design of radiant systems and passive devices at high frequency, from some GHz up to optical frequencies.

AREA 4 – ELECTRICAL SYSTEMS: concerns the critical and comparative analysis of control techniques for electrical drives with the development of innovative algorithms, the automation of power systems, with particular reference to the “power quality” in distribution networks, to the “smart-
metering” and fault diagnosis in electrical systems.

**Computer Engineering**

**AREA 1 – METHODS AND TECHNOLOGIES OF SOFTWARE:** concerns methods of design, examination and evaluation of complex software systems, with further details on formal methods and advanced software architectures.

**AREA 2 – PATTERN RECOGNITION AND COMPUTER VISION:** concerns multimedia processing, classification and media search from databases and Internet, solutions for human-machine interaction, smart environments.

**AREA 3 – ARTIFICIAL INTELLIGENCE AND BIOINFORMATICS:** is mainly focused on machine learning and its applications to bioinformatics.

**AREA 4 – DISTRIBUTED SYSTEMS AND DATA ENGINEERING:** it concerns the study of distributed, parallel and complex processing systems wherein distributed architecture, performance and data complexity issues are integral part of the problem, such as for instance in applications for big data, smart cities, smart clouds, internet-of-things, smart manufacturing, etc.

**Telecommunications and Telematics**

**AREA 1 – ALGORITHMS AND TECHNOLOGIES FOR SIGNAL PROCESSING:** concerns processing methods and techniques of mono/multidimensional signals for the extraction of information and the efficiency of their representation in transmission and storage.

**AREA 2 – TRANSMISSION SYSTEMS:** concerns methods and techniques for efficient generation, transmission and disclosure of information through future terrestrial and satellite transmission channels.

**AREA 3 – TELECOMMUNICATION NETWORKS:** concerns methods and techniques for efficient transfer of information from source to destination through complex and advanced communication networks and related communication network applications.

**AREA 4 – TELEMATICS AND INFORMATION SOCIETY:** this cross-disciplinary area involves the applications of ICT technologies considered as key-enabling in different scientific and application domains. It requires a multi-disciplinary background in order to cope with the large variety of services and applications of telematics. The domains of interest include: telecommunications, communication, political and socio-economic sciences including all areas of the “Societal Challenges” of the European programme H2020.

Further information is available at the following web page:

http://informationengineering.dinfo.unifi.it/

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**EXAMINATION SCHEDULE**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>7 September 2018</td>
<td>8:30 a.m.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Department of Information Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Via di S. Marta, 3 – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting room</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the interview and the final ranking will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Industrial Engineering

**Coordinator prof. Giampaolo Manfrida**

## Technological Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Industrial Engineering Florence (DIEF)</th>
</tr>
</thead>
</table>

## Curricula

1. Energy and Innovative Industrial & Environmental Technologies  
2. Design and development of Industrial Products and Processes  
3. Industrial Engineering and Reliability  
4. Science and Engineering of Materials

## Positions Available: 18

Positions with scholarship: 14  
Positions without Scholarship: 4

### Scholarships: 14

- 5 – University of Florence  
- 7 – Department of Industrial Engineering Florence (DIEF)  
- 1 – co-financed University of Florence and Department of Industrial Engineering Florence (DIEF)  
- 1 – co-financed Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM) and Department of Industrial Engineering Florence (DIEF) – Subject: “Nano-structured magnetic materials: development and applications”

## Reserved Positions

Reserved Positions: NO

## Study/Research Periods Abroad

Yes – only positions with scholarship

## Mandatory Period Required

3 months

### Mandatory Documents

- Copy of the Identification Document (Passport, valid international ID card)  
- Title of the M.Sc. degree Thesis subscribed with the Replacement Declaration Form  
- Curriculum Vitae  
- Research project

### Optional Documents

- Any additional qualification documents, scientific publications, Abstract of the M.Sc. degree Thesis

## Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.
The research project must be written in Italian or English in NO MORE than 12,000 characters including spacing, abstract, introduction and references. The project must be related, and should make specific reference, to one of the proposed work subjects listed in the below section “Thematics.”

**MODALTY OF EVALUATION**

- Evaluation of curriculum vitae, research project, publications and /or other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

**OTHER LANGUAGES FOR THE INTERVIEW**

English

**SKYPE INTERVIEW**

YES – Possible for foreign residents only

**EVALUATION MARKS**

| parameter                                                      | minimum score | maximum score |
|                                                               |               |               |
| Curriculum vitae; publications, other qualification documents | 12/120        | 18/120        |
| Evaluation of the research project                           | 28/120        | 42/120        |

Applicants who obtain at least 40/120 marks in the evaluation of the above parameters will be admitted to the interview.

Interview: discussion of the project and publications (if any) 40/120 60/120

Eligibility is achieved with a minimum score of 80/120

**FURTHER INFORMATION ON THE EVALUATION PROCESS**

If the minimum score is not reached for either CV or research project (see box above), the candidate will not be admitted to interview.

**THEMATICS**

- Development and integration of multidisciplinary numerical methodologies for the aero-thermal and mechanical design of aero-engine combustors
- Numerical modeling of the combustion process in industrial and aeronautical gas turbines to develop combustor innovative concepts to limit polluting emissions, with particular reference to the problems affecting lean flame based systems such as thermo-acoustic instability and the Lean Blow Out
- Fluid dynamics analysis and advanced design of cryogenic turbine and pump components for rocket engine applications
- Fluid dynamics analysis and performance prediction in cryogenic turbopumps for space applications with particular emphasis on cavitating flows
- Fluid Dynamics Analysis of natural gas distribution networks
- Innovative solutions for Energy storage for conversion and direct use, including smart integration in energy distribution grids
- RAMS models and experimental analysis for complex systems
- Development of decision-making algorithms for self-driving vehicles
- Development of systems and methods based on Reverse Engineering and Additive - Manufacturing for personalized medicine
- Creation of a perfusion system to maintain the life of organs
- Modeling and optimization of machining processes
- Development of passive safety solutions for motorcyclists
- GNC (Guidance, Navigation and Control) systems for mobile robotics
- Study of the interaction among motorcycles and autonomous vehicles
- Nano-structured magnetic materials: development and applications
- Development and integration of advanced numerical models for the study of heat transfer and cooling in high-temperature turbomachinery components
- Development of diagnostic systems for the study of fuel spray processes in high efficiency, low polluting combustors
- Experimental survey on high temperature components of thermal engines: innovative measuring systems and applications linked to the introduction of new additive manufacturing techniques
- Reliability analysis, availability and maintainability optimization for railway applications
- Methods and tools to support the implementation of lean projects in healthcare
- Servitization of manufacturing companies: the role of digital twins of products and processes
- The role of digital twins of logistic plants. Use of simulation models for “plug and produce”
- Development of test-rigs for turbomachinery applications
- Development of thermo-elastic models for turbomachinery components
- Integration of solutions for electricity networks with intermittent, variable and non-programmable renewable sources, in order to improve production/load balance and store energy; specific reference to hybrid systems with biomass
- Innovative working fluids having good environmental compatibility; property modeling and effects on performance (direct and inverse cycles) considering also lubricating oil effects.
- Development of energy systems and components exploiting concentrated solar energy
- Analysis, design and verification of Electromagnetic Compatibility (EMC) test methods for automotive industry subject to metrological control and quality assurance of test results
- Overview, analysis and design of Signal-Power Integrity (SIPI) and Electromagnetic - Compatibility (EMC) methodologies for Advanced Driver Assistance Systems (ADAS) technologies in the automotive industry

Further information available at the following web page: [https://www.dief.unifi.it/vp-344-dottorato.html](https://www.dief.unifi.it/vp-344-dottorato.html)

### EXAMINATIONS SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>24 September 2018</td>
<td>9:00 a.m.</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following webpage: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
**INTERNATIONAL DOCTORATE IN CIVIL AND ENVIRONMENTAL ENGINEERING**

*Coordinator prof. Fabio Castelli*

Pegaso Scholarships 2018 are financed with the resources of the POR FSE TOSCANA 2014/2020 in the frame of the Tuscany Region Project “Giovanisi” (www.giovanisi.it) for the autonomy of young people

| TECHNOLOGICAL AREA | ADMINISTRATIVE OFFICE | University of Florence
| Regione Toscana Pegaso Project 2018 | University of Pisa
| PARTNER INSTITUTIONS | University of Perugia Bauingeneurwesen und Umweltwissenschaften – Technische Universität Braunschweig, Germany – Fakultat 3 Architektur
| CURRICULA | 1. Solid Fluid and Materials Mechanics  
2. Construction Design, Verification and Control  
3. Environment, Resources and Security

**POSITIONS AVAILABLE: 16**

Positions with scholarship: 12  
Positions without Scholarship: 4*

* standard ranking only

**Ranking List for STANDARD POSITIONS - scholarships available: 10**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>University of Florence</td>
</tr>
<tr>
<td>3</td>
<td>University of Perugia</td>
</tr>
<tr>
<td>2</td>
<td>Regione Toscana Pegaso Scholarships 2018</td>
</tr>
</tbody>
</table>

**Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS scholarships available: 2**

**Regione Toscana Pegaso Scholarships 2018**

1. “Analysis of the resilience of infrastructural networks of linear transport systems: integration of satellite and aerial data and subsoil analyses for the prevention of endogenous and exogenous risks”

2. “Analysis and optimization of the processes for the exploitation of sewage sludge in a circular economy”

**RESERVED POSITIONS**

NO

**STUDY/RESEARCH PERIODS ABROAD**

YES

**MANDATORY PERIOD REQUIRED**

9 months (minimum) either at TU- Braunschweig or other foreign university with a co-tutelle agreement to be signed within the first year of the course  
12 months (maximum) for Pegaso Scholarships 2018 holders are due to perform a mandatory study/research period abroad

**DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION**

**MANDATORY DOCUMENTS**

- Copy of the Identification Document
- **Replacement Declaration Form**
- Curriculum vitae
- Research project

**OPTIONAL DOCUMENTS**

- List of publications and any other qualification documents
A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.

The research project will be related to the topics within this Ph.D. course and will regard one of the three curricula. The project should be written in English and should not exceed 3 pages including the references. For the candidates applying for scholarships Pegaso 2018, the submitted research project should be related to that specific topics. In that case, the research project will be valid for application to standard scholarship as well.

- **Evaluation of curriculum vitae, research project, publications and other qualification documents**
- **Interview** as detailed in the section below “Evaluation Marks”

**OTHER LANGUAGE FOR THE EXAMINATION**

English

**SKYPE INTERVIEW**

YES – possible for foreign residents only

The candidate’s engineering background, necessary for the proposed research project, will be also verified during the interview. The oral test will be as well intended to verify candidates knowledge of the English language (level B2 or higher).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum score</th>
<th>Maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, qualification documents</td>
<td>10/120</td>
<td>20/120</td>
</tr>
<tr>
<td>Research Project</td>
<td>20/120</td>
<td>30/120</td>
</tr>
</tbody>
</table>

Applicants who obtain at least 30/120 marks in the evaluation of the two above parameters will be admitted to the interview

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum score</th>
<th>Maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interview</td>
<td>50/120</td>
<td>70/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page:
http://www.ddicea.unifi.it/mdswitch.html

**EXAMINATION SCHEDULE**

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>3 September 2018 9:00 a.m.</td>
<td>School of Engineering via Santa Marta, 3 – Florence</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published online at:
https://www.unifi.it/p11361.html
# Doctoral Programme in Agricultural and Environmental Sciences

**Coordinator prof. Giacomo Pietramellara**

### Technological Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Agrifood Production and Environmental Sciences</th>
</tr>
</thead>
</table>

### CURRICULA

- **NO**

### Positions Available: 9

- Positions with Scholarship: 7
- Position without Scholarship: 2*

* Standard ranking only

### Ranking List for Standard Positions

- Scholarships available: 6
- **University of Florence**

### Ranking List for Positions with Specific Research Topics

- Scholarships available: 1
- **Department of Agrifood Production and Environmental Sciences**
  - "Agronomic techniques for precision crop management."

### Reserved Positions

- **NO**

### Study/Research Periods Abroad

- **YES - only positions with scholarship**

### Mandatory Period Required

- **3 months**

### Documents to be Enclosed with the Application

#### Mandatory Documents

- Copy of the Identification Document
- [Replacement Declaration Form](#)
- Curriculum vitae (European format)
- Research Project

#### Optional Documents

- List of publications
- Any other scientific qualification documents

### Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates' training path and activities performed within a scientific field related to the Ph.D. course.

### Research Project

Research project has to be prepared in Italian or English in no more than 12000 characters including spacing, and structured in introduction, state of the art, objectives, materials and methods with temporal distribution of the phases, expected results. For XXXIV cycle, several priorities of interest have been selected. The project must relate, and should make specific reference, to one of them listed in the section below: "Thematics".
The research project (both for standard and specific positions) should be attached to the application form and it should be made as the project pattern uploaded into the following departmental webpage (section “dottorato di ricerca”): https://www.dispaa.unifi.it/vp-26-dottorati-di-ricerca.html. The research project should be focused on a possible research activity, which the applicant will be going to execute during the three-year doctoral program; regarding the position with a specific research topic, the project must be focused to the topic of the position.

**MODALITY OF EVALUATION**
- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

**OTHER LANGUAGE FOR THE EXAMINATIONS**
English

**SKYPE INTERVIEW**
YES – possible for foreign resident only

**FURTHER INFORMATION ON THE EXAMINATIONS**
The interview can be equally taken in Italian or in English language; if it is taken in Italian, English skills will be tested during the interview.
For the position with a specific research topic, during the interview, the knowledge of the candidate regarding the topic of the position will also be evaluated.

<table>
<thead>
<tr>
<th>EVALUATION MARKS</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>curriculum vitae, scientific qualification documents</td>
<td>10/120</td>
<td>15/120</td>
</tr>
<tr>
<td>Research project</td>
<td>30/120</td>
<td>40/120</td>
</tr>
</tbody>
</table>

**EVALUATION MARKS**

Applicants who obtain a mark of at least 40/120 in the evaluation of the above parameters will be admitted to the interview

Interview: discussion of the research project and qualification documents

Eligibility is achieved with a minimum score of 80/120

**THEMATICS**
- Interactions in Tetraselmis suecica/bacteria holobiont
- New insights on the diversity of resource-use strategies among coexisting Mediterranean shrubs species and possible utilizations of these plants as biofactories
- Implementation of a simplified and low-cost phenotyping platform for crop monitoring
- Factors involved in the development of grapevine leaf stripe disease symptoms in view of sustainable control protocols
- Genome wide search for signatures of selection in beef cattle breeds
- Biocological and morphological studies of Hippoboscid flies of genus Lipoptena, ectoparasites of wild ungulates, with special reference to L. fortisetosa, a new record for Italy

Further information available at the following web page:
EXAMINATION SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW</td>
<td>13 and 14 September 2018</td>
<td>Scuola di Agraria</td>
</tr>
<tr>
<td></td>
<td>from 9.30 a.m. until 5.30 p.m.</td>
<td>Piazzale delle Cascine, 28 – Florence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aula F</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
**INDUSTRIAL DOCTORAL PROGRAMME**

**IN**

**SMART COMPUTING**

*Coordinator prof. Paolo Frasconi*

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**TECHNOLOGICAL AREA**

<table>
<thead>
<tr>
<th>ADMINISTRATIVE OFFICE</th>
<th>Department of Information Engineering</th>
</tr>
</thead>
</table>
| Regione Toscana Pegaso Project 2018 | University of Florence  
University of Pisa  
University of Siena |
| INDUSTRIAL AGREEMENTS | KKT s.r.l. – Florence  
Subsidiary of Fleetmatics Italia s.r.l. – (a Verizon Company) |
| CURRICULA | NO |

**POSITIONS AVAILABLE:** 15 + 1 reserved for employees of KKT s.r.l.

- Positions with scholarship: 12
- Positions without Scholarship: 3*
  * standard ranking only

**Ranking List for STANDARD POSITIONS scholarships available:** 7

<table>
<thead>
<tr>
<th>Position</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>University Florence</td>
</tr>
<tr>
<td>3</td>
<td>Regione Toscana Pegaso Scholarships 2018</td>
</tr>
</tbody>
</table>

**Ranking List for SPECIFIC RESEARCH TOPICS SCHOLARSHIPS positions available:** 5

<table>
<thead>
<tr>
<th>Position</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Regione Toscana Pegaso Scholarships 2018</td>
</tr>
<tr>
<td>2</td>
<td>“Natural Language Processing by Deep Learning”</td>
</tr>
<tr>
<td>3</td>
<td>“Network Monitoring and Management in the Future Internet”</td>
</tr>
<tr>
<td>3</td>
<td>“Machine Learning Methods for Quantitative Evaluation”</td>
</tr>
<tr>
<td>1</td>
<td>University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
</tr>
<tr>
<td>1</td>
<td>“Analysis and interpretation of 4D microscopy data”</td>
</tr>
<tr>
<td>1</td>
<td>Fondazione Bruno Kessler (FBK)</td>
</tr>
<tr>
<td>1</td>
<td>“Building Quality Event-centric Knowledge Graphs from Text”</td>
</tr>
</tbody>
</table>

**INDUSTRIAL DOCTORAL PROGRAMME – RESERVED POSITION:** 1

<table>
<thead>
<tr>
<th>Position</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>position reserved for employees of KKT s.r.l.</td>
</tr>
</tbody>
</table>

**STUDY/RESEARCH PERIODS ABROAD**

**YES** – for Pegaso Scholarships 2018 only

**MANDATORY PERIOD REQUIRED**

6 months

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*Pegaso Scholarships 2018 are financed with the resources of the POR FSE TOSCANA 2014/2020 in the frame of the Tuscany Region Project “Giovanisi” (www.giovanisi.it) for the autonomy of young people*
<table>
<thead>
<tr>
<th>DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION</th>
<th>MANDATORY DOCUMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Copy of the Identification Document</td>
</tr>
<tr>
<td></td>
<td>• Replacement Declaration Form</td>
</tr>
<tr>
<td></td>
<td>• Curriculum vitae</td>
</tr>
<tr>
<td></td>
<td>• Transcript of records of M.Sc. degree</td>
</tr>
<tr>
<td></td>
<td>• Title of the M.Sc. thesis</td>
</tr>
<tr>
<td></td>
<td>• Abstract of the M.Sc. thesis</td>
</tr>
<tr>
<td></td>
<td>• Research project</td>
</tr>
<tr>
<td></td>
<td><strong>OPTIONAL DOCUMENTS</strong></td>
</tr>
<tr>
<td></td>
<td>• List of publications</td>
</tr>
<tr>
<td></td>
<td>• PDF copy or a chapter of the M.Sc. thesis (if available)</td>
</tr>
<tr>
<td>REFERENCE LETTERS</td>
<td>A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.</td>
</tr>
<tr>
<td>RESEARCH PROJECT</td>
<td>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, 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 insuccess. The research proposal needs not to be directly related to one of the reserved research topics (see below) for which you may want to apply. In facts, this proposal will not be even used to bound you to do research in any particular area, it just serves the purpose of assessing your technical writing skills, your ability to envision sensible long-term research goals, and your ability to plan and evaluate research activities.</td>
</tr>
<tr>
<td>MODALITY OF EVALUATION</td>
<td>• Evaluation of curriculum vitae, research project, publications and other qualification documents</td>
</tr>
<tr>
<td></td>
<td>• Interview as detailed in the section below “Evaluation Marks”</td>
</tr>
<tr>
<td>LANGUAGE FOR THE EXAMINATION</td>
<td>English for all applicants</td>
</tr>
<tr>
<td>SKYPE INTERVIEW</td>
<td>YES – possible for residents abroad only</td>
</tr>
</tbody>
</table>
| FURTHER INFORMATION ABOUT EXAMINATIONS        | Note on applications for the “specific research topic scholarships”: A subset of the available positions will be reserved to the specific research topics listed below. To be considered for one of these positions, please select one or more of them during the application process. Since we strive to fill as many of these positions as possible, by applying for one or more reserved positions you may significantly increase your chances of being accepted in the program. You may apply for as many reserved positions as you wish. During the interview, there will be one additional test for each reserved positions you apply.
have applied for. Passing the test is a necessary (but not sufficient) condition for accessing the corresponding reserved position. Failing one or more of these tests will not reduce your chances of being accepted for the remaining (non-reserved) positions.

There are additional thematic positions (not reserved) that do not require a specific test.

Topics are listed at [http://smartcomputing.unifi.it/procedures.html#positions](http://smartcomputing.unifi.it/procedures.html#positions)

<table>
<thead>
<tr>
<th>EVALUATION MARKS</th>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, qualification documents</td>
<td>27/120</td>
<td>40/120</td>
<td></td>
</tr>
<tr>
<td>Research proposal</td>
<td>27/120</td>
<td>40/120</td>
<td></td>
</tr>
</tbody>
</table>

Applicants scoring at least 54/120 on the above parameters will be shortlisted for interview.

| Interview (including a discussion of the research proposal in English language) | 26/120 | 40/120 |

Candidates with an overall score below 80/120 cannot be admitted to the program.

<table>
<thead>
<tr>
<th>THEMATICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Artificial Intelligence</td>
</tr>
<tr>
<td>• Computer Networking</td>
</tr>
<tr>
<td>• Computer Vision</td>
</tr>
<tr>
<td>• Computer Architectures</td>
</tr>
<tr>
<td>• Conversational Agents</td>
</tr>
<tr>
<td>• Data Analysis and Social Network Data Analysis</td>
</tr>
<tr>
<td>• Fog/Edge computing in IoT</td>
</tr>
<tr>
<td>• Embedded and Cyber-physical Systems</td>
</tr>
<tr>
<td>• Machine Learning</td>
</tr>
<tr>
<td>• Neuroinformatics</td>
</tr>
<tr>
<td>• Pervasive Sensing &amp; Computing</td>
</tr>
<tr>
<td>• Quantitative evaluation and verification of concurrent systems</td>
</tr>
<tr>
<td>• Security and Privacy in Smart Systems</td>
</tr>
<tr>
<td>• Software architectures and engineering methods</td>
</tr>
</tbody>
</table>

Further information available at the following web page: [http://smartcomputing.unifi.it/](http://smartcomputing.unifi.it/)

<table>
<thead>
<tr>
<th>EXAMINATION SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
</tr>
<tr>
<td>INTERVIEW</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published online at: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Philology, Italian Literature and Linguistics

Coordinator prof. Donatella Coppini

## Humanistic Area

### Administrative Office

Department of Literature and Philosophy

### Partner Institutions

**Curriculum Italian Studies (International)**
- Rheinische Friedrich-Wilhelms Universität, Bonn - Germany
- Université Paris IV Sorbonne - France

**Curriculum: Linguistics (International)**
- Rheinische Friedrich-Wilhelms Universität, Bonn - Germany

### Curricula

- Italian Studies (International)
- Linguistics (International)
- History, Tradition and Textual Criticism of Medieval and Renaissance Texts
- Digital Humanities

### Positions Available: 8

- Positions with scholarship: 6
- Positions without Scholarship: 2*

*standard ranking only

Annual amount of the scholarship € 17,785.73 (gross amount)

The increased amount of the scholarship is financed by Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”

### Ranking List for Standard Positions - Scholarships available: 4

- University of Florence

### Ranking List for Specific Research Topics Scholarships - positions available: 2

   Thematic: “Digital Humanities for language and literature studies”

2. University of Florence – **Fondo Pluriennale Piano Strategico 2018**
   Thematic: “The Italian architectural lexicon between the Fourteenth and the Seventeenth Century”

### Reserved Positions

- NO

### Study/Research Periods Abroad

- YES
  - for PhD students of the international curricula
  - for the Scholarship funded by the Department of Literature and Philosophy - **Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”**

### Mandatory Period Required

- 3 months: for PhD students of the international curricula
- 9 months: for the Scholarship funded by the Department of Literature and Philosophy - **Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”**
DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION

MANDATORY DOCUMENTS
- Copy of the Identification Document
- Replacement Declaration Form
- Transcript of records
- Master degree Thesis’ title
- Copy of Master degree thesis
- Abstract of Master degree thesis
- Curriculum
- Research Project

OPTIONAL DOCUMENTS
- List of publications
- Other qualifications

RESEARCH PROJECT

The research project which the candidates intend to carry out during their three years of PhD must meet the following requirements: 1) it must indicate a topic consistent with one of the curricula of the PhD (maximum 20.000 characters) and explicitly referring to it; 2) it must include: the state of the art; a description of the project; expected results; adequate bibliographical references.

The research projects that successful applicants shall engage in during their doctoral career may possibly differ from the project proposed at the application stage: this shall be defined together with the supervisor and approved by the Academic Board.

MODALITY OF EVALUATION
- Written examination
- Interview with the evaluation of the curriculum, of the research project and of the scientific qualifications as detailed in the section “evaluation marks”

OTHER LANGUAGE FOR THE EXAMINATIONS
The written examination and the interview have to be taken only in Italian language.

SKYPE INTERVIEW
YES – possible for foreign resident only

INFORMATION ABOUT EXAMINATIONS

The written examination will consist in the analysis of a literary text or in writing an essay (related to one of the four curricula) on one of the subjects proposed by the examination Board (See the Section “thematics”) The interview consists in a discussion on the research project and on the scientific qualifications presented by the applicants, and in the assessment of their knowledge of a foreign language (Knowledge of Latin is compulsory for the curriculum in History, Tradition and Textual Criticism of Medieval and Renaissance Texts).

EVALUATION MARKS

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written examination</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview: curriculum vitae, publications, other qualifications, research project</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120
### THEMATICS

The written examinations will focus on:

- the interpretation and commentary to a text or illustration of a fundamental theme of Italian Literature from its origins to the present times (*Italian Studies*);

- a theme featuring one of the following areas: historical linguistics, theoretical linguistics, corpora linguistics, Italian linguistics and communication theory (*Linguistics*);

- the illustration of themes, texts or palaeographic documents related to the Middle Ages and the Renaissance (*History, Tradition and Textual Criticism of Medieval and Renaissance Texts*).

- designing and consulting databases and IT tools for language and literature studies (*Digital Humanities*).

Further information available at the following web page: [https://www.dottoratofilletlin.unifi.it/](https://www.dottoratofilletlin.unifi.it/)

### EXAMINATIONS SCHEDULE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WRITTEN EXAMINATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 September 2018</td>
<td>9:30 a.m.</td>
<td>Scuola di Studi Umanistici e della Formazione Via Laura 48 – Florence Aula A10</td>
</tr>
<tr>
<td>4 September 2018</td>
<td>2:30 p.m.</td>
<td>Scuola di Studi Umanistici e della Formazione Via Laura 48 – Florence Aula A12</td>
</tr>
<tr>
<td>4 September 2018</td>
<td>9:30 a.m.</td>
<td>Department of Literature and Philosophy Piazza Brunelleschi, 4 – Florence Sala B</td>
</tr>
</tbody>
</table>

**RANKING LIST FOR SPECIFIC RESEARCH TOPIC SCHOLARSHIP**

*Digital Humanities for language and literature studies*  
*Dipartimenti di Eccellenza 2018-2022*

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WRITTEN EXAMINATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 September 2018</td>
<td>2:30 p.m.</td>
<td>Scuola di Studi Umanistici e della Formazione Via Laura 48 – Florence Aula A12</td>
</tr>
<tr>
<td><strong>INTERVIEW</strong></td>
<td>11 September 2018</td>
<td>9:30 a.m. Department of Literature and Philosophy Piazza Brunelleschi, 4 – Florence Sala B</td>
</tr>
</tbody>
</table>

**RANKING LIST FOR SPECIFIC RESEARCH TOPIC SCHOLARSHIP**  
*The Italian architectural lexicon between the Fourteenth and the Seventeenth Century.*  
*Fondo Pluriennale Piano Strategico 2018*

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WRITTEN EXAMINATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 September 2018</td>
<td>9:30 a.m.</td>
<td>Scuola di Studi Umanistici e della Formazione Via Laura 48 – Florence Aula A12</td>
</tr>
<tr>
<td><strong>INTERVIEW</strong></td>
<td>12 September 2018</td>
<td>9:30 a.m. Department of Literature and Philosophy Piazza Brunelleschi, 4 – Florence Sala B</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the written examination will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)

The list of candidates admitted to the interview and the final ranking will be published online at the following web page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)
# Doctoral Programme in Philosophy

**Coordinator prof. Adriano Fabris**

## Humanistic Area

### Administrative Office
- Department of Literature and Philosophy

### Partner Institution
- University of Pisa

### Curricula
1. History of Philosophy
2. Ethics, Politics, and Religions
3. Theoretical, Aesthetics, and Philosophy of Language
4. Logic, Philosophy of Science, and History of Science

## Positions Available: 12

- Positions with scholarship: 9
- Positions without scholarship: 3*
  * 2 standard ranking
  * 1 reserved position ranking

### Ranking List for Standard Positions

<table>
<thead>
<tr>
<th>Scholarships Available</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>University of Florence</td>
</tr>
<tr>
<td>3</td>
<td>University of Pisa</td>
</tr>
</tbody>
</table>

### Ranking List for Specific Research Topics Scholarships

<table>
<thead>
<tr>
<th>Positions Available</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Department of Literature and Philosophy – Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”</td>
</tr>
<tr>
<td></td>
<td>“Textuality and ways of perception. Aesthetics of textuality and intertextuality, intermediality and grammars of the modern and contemporary artistic languages. Theories and historical-critical perspectives”</td>
</tr>
<tr>
<td></td>
<td>“Educational Approaches and Theoretical Debates in 16th century Universities”</td>
</tr>
<tr>
<td>1</td>
<td>University of Florence – Fondo Pluriennale Piano Strategico 2018</td>
</tr>
<tr>
<td></td>
<td>“Ethic, Tecnology and Democracy”</td>
</tr>
</tbody>
</table>

### Ranking List for Reserved Positions

<table>
<thead>
<tr>
<th>Position without scholarship available</th>
<th>Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>This position is reserved for candidates who have obtained the qualifications for admission to Ph.D. courses from foreign universities or have obtained a scholarship from a foreign Country or have been admitted to specific international mobility programmes</td>
</tr>
</tbody>
</table>

### Study/Research Periods Abroad
- YES – only for positions with scholarship

### Mandatory Period Required
- 8 months
<table>
<thead>
<tr>
<th>DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STANDARD POSITIONS – SCHOLARSHIPS WITH SPECIFIC RESEARCH TOPICS</strong></td>
</tr>
<tr>
<td><strong>MANDATORY DOCUMENTS</strong></td>
</tr>
<tr>
<td>• Copy of the Identification Document</td>
</tr>
<tr>
<td>• Replacement Declaration Form</td>
</tr>
<tr>
<td>• Curriculum vitae et studiorum, including certification of linguistic competences, list of publications, and other qualifications (if any).</td>
</tr>
<tr>
<td>• Transcript of records of BA/B.Sc. and MA/MSc degrees;</td>
</tr>
<tr>
<td>• Title and abstract of the MA/M.Sc. thesis (maximum 5,000 characters including spaces);</td>
</tr>
<tr>
<td>• A chapter of the MA/M.Sc. thesis or any other writing sample, either published or unpublished (maximum 45,000 characters including spaces);</td>
</tr>
<tr>
<td>• Research project.</td>
</tr>
<tr>
<td><strong>RESERVED POSITION WITHOUT SCHOLARSHIP</strong></td>
</tr>
<tr>
<td><strong>MANDATORY DOCUMENTS</strong></td>
</tr>
<tr>
<td>• Copy of the Identification Document</td>
</tr>
<tr>
<td>• Replacement Declaration Form</td>
</tr>
<tr>
<td>• Curriculum vitae et studiorum, including certification of linguistic competences, list of publications, and other qualifications (if any).</td>
</tr>
<tr>
<td>• Title and abstract of the MA/M.Sc. thesis (maximum 5,000 characters including spaces)</td>
</tr>
<tr>
<td>• A chapter of the MA/MSc thesis or any other writing sample, either published or unpublished (maximum 45,000 characters including spaces);</td>
</tr>
<tr>
<td>• Research project.</td>
</tr>
<tr>
<td><strong>STANDARD POSITIONS – SCHOLARSHIPS WITH SPECIFIC RESEARCH TOPICS</strong> – <strong>RESERVED POSITION WITHOUT SCHOLARSHIP</strong></td>
</tr>
<tr>
<td><strong>OPTIONAL DOCUMENTS</strong></td>
</tr>
<tr>
<td>• Publications and other qualification document.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REFERENCE LETTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A section is provided in the online application to specify the e-mail addresses of two professors/researchers who are willing to provide information about the candidates’ education and research activities.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RESEARCH PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>The research project will be consistent with, and will explicitly refer to, one of the curricula of the Ph.D. programme. It will be maximum 25,000 characters long including spaces, will specify a research topic, make clear its originality, and concisely set out the current state of the art on the subject (with adequate bibliographical references) and the lines of inquiry which the candidate believes they could fruitfully pursue during the three years of Ph.D. The project will not be binding in case of successful application.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODALITY OF EVALUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Evaluation of curriculum vitae, research project, publications and other qualification documents</td>
</tr>
<tr>
<td>• Interview as detailed under “Evaluation marks” below.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER LANGUAGE FOR THE EXAMINATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The interview may be taken either in Italian or English. If taken in Italian, it will include an assessment of the applicant’s competence in the English language; if taken in English, it will include an assessment of the applicant’s competence in the Italian language. Applicants may request that their competence in other</td>
</tr>
</tbody>
</table>
The interview will focus on the applicant’s publications, additional qualifications (if any), and on the research project. The applicant’s linguistic, philosophical and historical-philosophical skills, both in general and in relation to the research project, will also be evaluated.

With reference to the reserved position, during the interview special attention will be paid to the assessment of the applicant’s command of the Italian language (whose level will have to be equivalent to B2 or higher).

<table>
<thead>
<tr>
<th>EVALUATION MARKS</th>
<th>STANDARD POSITIONS – SCHOLARSHIPS WITH SPECIFIC RESEARCH TOPICS</th>
<th>– RESERVED POSITION WITHOUT SCHOLARSHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>parameter</td>
<td>minimum score</td>
<td>maximum score</td>
</tr>
<tr>
<td>Curriculum vitae, publications and qualification documents</td>
<td>27/120</td>
<td>40/120</td>
</tr>
<tr>
<td>Research project</td>
<td>27/120</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Only applicants who obtain a minimum score of 54/120 in the evaluation of the two above parameters will be admitted to the interview.

Interview: discussion of curriculum vitae, qualification documents, research project

Eligibility is achieved with a minimum score of 80/120

Further information available at the following web page:
https://www.dottoratofilosofia.unifi.it

<table>
<thead>
<tr>
<th>EXAMINATIONS SCHEDULE</th>
<th>DATE</th>
<th>TIME</th>
<th>PLACE</th>
</tr>
</thead>
</table>
| - RANKING LIST STANDARD POSITIONS
- RANKING LIST SCHOLARSHIP WITH SPECIFIC RESEARCH TOPIC
   University of Florence - Fondo Pluriennale Piano Strategico 2018
- RANKING LIST RESERVED POSITION WITHOUT SCHOLARSHIP |
| INTERVIEW              | 19 September 2018 | 9:30 a.m. | Department of Literature and Phylosophy P.zza Brunelleschi , 4 - Florence Saletta Medioevo e Rinascimento |
| - RANKING LIST SCHOLARSHIPS WITH SPECIFIC RESEARCH TOPICS
   Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022” |
| INTERVIEW              | 18 September 2018 | 9:30 a.m. | Department of Literature and Phylosophy P.zza Brunelleschi, 4 – Florence Sala B |

The list of candidates admitted to the oral test and the final ranking will be published online at the following web page: https://www.unifi.it/p11361.html
# Doctoral Programme in Comparative Language, Literature and Culture

Coordinator prof. Maria Rita Manzini

## Humanistic Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of Languages, Literature and Intercultural Studies</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Partner Institutions</th>
<th>Rheinische Friedrich-Wilhelms Universitaet Bonn (Germania) (curriculum Germanistica Firenze-Bonn)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sorbonne Université Paris (Francia) Rheinische Friedrich-Wilhelms Universitaet Bonn (Germania) (curriculum Miti Fondatori dell’Europa nelle Arti e nella Letteratura)</td>
</tr>
</tbody>
</table>

| Curricula              | 1. German Studies Florence-Bonn (International)  |
|                       | 2. Founding Myths of Europe in the Arts and Literature (International)  |
|                       | 3. Language, Literature and Philology: Intercultural perspectives  |
|                       | 4. Linguistics and Oriental Studies  |

## Positions Available: 5

Positions with Scholarship: 4
Position without Scholarship: 1

<table>
<thead>
<tr>
<th>Scholarships: 4</th>
<th>University of Florence</th>
</tr>
</thead>
</table>

## Reserved Positions

No

<table>
<thead>
<tr>
<th>Study/Research Periods Abroad</th>
<th>YES – only positions with scholarship</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mandatory Period Required</th>
<th>6 months - Curriculum German Studies Florence-Bonn</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>9 months - Curriculum Founding Myths of Europe in the Arts and Literature</td>
</tr>
<tr>
<td></td>
<td>3 months - Curriculum Language, Literature and Philology: Intercultural perspectives</td>
</tr>
<tr>
<td></td>
<td>3 months - Curriculum Linguistics and Oriental Studies</td>
</tr>
</tbody>
</table>

## Documents to be Enclosed with the Application

**Mandatory Documents**
- Copy of the Identification Document
- Replacement Declaration Form
- Curriculum vitae
- Abstract of Bachelor and Master Thesis
- Research Project

**Optional Documents**
- Any other qualification documents
- Abstract of publications

## Reference Letters

A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course.
RESEARCH PROJECT AND DOCUMENTS
The research project, of maximum five pages, defining the discipline in which they intend to specialise and written in Italian or in one of the foreign languages: German, French, English and Spanish. The project and the curriculum will be discussed during the interview. The abstracts of the Degree theses defended (Bachelor degree, Master degree, or other of maximum one page per abstract) The abstract of eventual publications (maximum 250 words per article), stressing the original aspects of the various works.

MODALITY OF EVALUATION
- Evaluation of curriculum vitae, research project, publications and other qualification documents
- Interview as detailed in the section below “Evaluation Marks”

OTHER LANGUAGES FOR THE INTERVIEW
German, French, English and Spanish.

SKYPE INTERVIEW
YES – possible for foreign residents only

EVALUATION MARKS
<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, other qualification documents</td>
<td>20/120</td>
<td>30/120</td>
</tr>
<tr>
<td>Research project</td>
<td>20/120</td>
<td>30/120</td>
</tr>
</tbody>
</table>

Applicants obtaining a score of at least 40/120 in the evaluation of the curriculum, publications, qualification documents and research project will be admitted to the interview.

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interview: discussion of the research project, publications and other qualification documents</td>
<td>40/120</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

THEMATICS

Curriculum German Studies Florence-Bonn
1. Classical-romantic culture and its reception
2. 19th century German literature between Realism and Nihilism
3. Themes and currents of 20th century German Literature
4. Italo-German studies
5. Theory and history of translation and publishing techniques
6. Gender studies
7. Historico-literary anthropology
8. Aesthetics and poetics of modernity
9. Theory and science of literature
10. Literature and arts

Curriculum Founding Myths of Europe in the Arts and Literature
1. Modernity and new myths
2. Reception of Classical antiquity and the Italian Renaissance in European culture
3. Mythical figures of European culture and its reception
4. Studies on 18th century Europe
5. Literature and arts
6. Aesthetics and poetics of modernity
7. Classical-romantic culture and its reception

Curriculum Language, Literature and Philology: Intercultural perspectives
Areas of research: Estonian, Germanic Philology, Finnish, English, Comparative Literature, Portuguese, Romanian, Scandinavian, Spanish, Turkish, Hungarian.

Curriculum Linguistics and Oriental Studies
- Philological and linguistic analysis of texts, with particular attention to oriental languages. Analysis and interpretation of documents and texts in modern and ancient languages. Textual genres.

Further information available at the following web page:

<table>
<thead>
<tr>
<th>EXAMINATION SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
</tr>
<tr>
<td>INTERVIEW</td>
</tr>
</tbody>
</table>

The list of candidates admitted to the interview and the final ranking will be published at the following web page: https://www.unifi.it/p11361.html
# DOCTORAL PROGRAMME IN EDUCATION SCIENCES AND PSYCHOLOGY

*Coordinator prof. Simonetta Ulivieri*

## HUMANISTIC AREA

### ADMINISTRATIVE OFFICE

Department of Education Sciences and Psychology

### CURRICULA

1. Theory and History of Educational Processes
2. Quality of Knowledge and Knowledge of the Differences
3. Research Methodologies for Educational Services

### POSITIONS AVAILABLE: 5

- Positions with Scholarship: 4
- Position without Scholarship: 1

**Scholarships: 4**  
University of Florence

**RESERVED POSITIONS**  
NO

**STUDY/RESEARCH PERIODS ABROAD**  
YES – only positions with scholarship

**MANDATORY PERIOD REQUIRED**  
6 months

### DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION

**MANDATORY DOCUMENTS**
- Copy of the Identification Document
- Replacement Declaration Form
- Academic curriculum (Italian and English)
- Research project
- List of Publications (if any)

**OPTIONAL DOCUMENTS**
- M.Sc. thesis
- Master, Diploma Certificates, etc

### RESEARCH PROJECT

The Research Project in Italian and English language must be written in not over ten pages, bibliography included. The research project must adhere to the Doctoral academic disciplines listed in the section below “Thematics” The research project will be discussed and valued during the interview; it will be necessary to the evaluation of applicant’s disposition to the research in pedagogical and/or psychological fields.

### MODALITY OF EVALUATION

- Written examination
- Interview along with the evaluation of the curriculum, of the research project and of the other qualifications documents as detailed in the section below “evaluation marks”

### LANGUAGE FOR THE EXAMINATION

English
During the written test, the examination board will present four different titles in relation to the four curricula of the Doctoral programme. The titles will be closed in an envelope and one of them will be selected for the exam. Titles will be both in Italian and English and the candidate can take the test both in Italian and English.

If the written exam is taken in Italian, English skills will be tested during the interview; if the test is taken in English, Italian skills will be tested.

<table>
<thead>
<tr>
<th>parameter</th>
<th>minimum score</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written test</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview: discussion of the research project, publications and qualification documents</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

The written test will be evaluated following these criteria: authenticity and critical approach; congruence with the main theme selected; coherence of scientific references on the topic; formal accuracy.

11/D - PEDAGOGY


11/D2: DIDACTICS, SPECIAL EDUCATION AND EDUCATIONAL RESEARCH: this section focuses on didactics, special education, orientation and evaluation methods. In particular, it comprehends research on General Didactics, Educational Planning, E-learning and Medias, Special Didactics for disabled or foreign students and Experimental pedagogy.

11/E - PSYCHOLOGY

11/E2: DEVELOPMENTAL PSYCHOLOGY AND EDUCATIONAL PSYCHOLOGY: this discipline focuses on the study of typical and atypical cognitive, linguistic, social and relational skills. It comprehends the study of psychological processes in education, integration and scholastic and professional orientation.

11/E3: SOCIAL PSYCHOLOGY, WORK PSYCHOLOGY AND ORGANIZATIONAL PSYCHOLOGY: the discipline focuses on the comprehension of social, cultural, organizational and economical phenomena (Social Psychology). It examines the psychological and relational processes which, working at different levels (individual, organizational, collective, cultural, institutional, and so on), influence people or social groups’ emotions, motivations and actions (Work and Organizational Psychology) in different systems and
contexts, such as interpersonal, familiar, environmental, linguistic, intercultural, scholastic, political, legal, economical, professional, and so on).

Further information available at the following web page:

<table>
<thead>
<tr>
<th>EXAMINATIONS SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE</td>
</tr>
<tr>
<td>WRITTEN EXAMINATION</td>
</tr>
<tr>
<td>INTERVIEW</td>
</tr>
</tbody>
</table>

The Final Ranking will be published at the following web page: https://www.unifi.it/p11361.html
**DOCTORAL PROGRAMME IN HISTORY OF ART AND PERFORMING ARTS**

*Coordinator prof. Andrea De Marchi*

Pegaso Scholarships 2018 are financed with the resources of the POR FSE TOSCANA 2014/2020 in the frame of the Tuscany Region Project “Giovanisi” (www.giovanisi.it) for the autonomy of young people.

<table>
<thead>
<tr>
<th>HUMANISTIC AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMINISTRATIVE OFFICE</td>
</tr>
</tbody>
</table>
| Regione Toscana Pegaso Project 2018 | University of Florence  
University of Pisa  
University of Siena |

<table>
<thead>
<tr>
<th>CURRICULA</th>
</tr>
</thead>
</table>
| 1. History of Art  
2. History of Performing Arts  
3. Technologies, Conservation and Restoration of Works of Art and of Performing Arts |

<table>
<thead>
<tr>
<th>POSITIONS AVAILABLE: 14</th>
</tr>
</thead>
</table>
| Positions with scholarship: 11  
Positions without Scholarship: 3 |

* standard ranking only

<table>
<thead>
<tr>
<th>Ranking List for STANDARD POSITIONS - scholarships available: 8</th>
</tr>
</thead>
</table>
| 5 – University of Florence  
3 – Regione Toscana Pegaso Scholarships 2018 |

<table>
<thead>
<tr>
<th>Ranking List for POSITIONS WITH SPECIFIC RESEARCH TOPICS - scholarship available: 2</th>
</tr>
</thead>
</table>
| Regione Toscana Pegaso Scholarships 2018  
1. “Digital resources for the investigation, the cataloguing and the visualisation of researches in history of art and history of performing arts”  
2. “Communication with innovative, digital and audiovisual technologies of the contents of researches in history of art and history of performing arts” |

<table>
<thead>
<tr>
<th>Ranking List for RESERVED POSITIONS - position with scholarship available: 1</th>
</tr>
</thead>
</table>
| Department of History, Archaeology, Geography, Fine & Performing Arts  
Progetto Ministeriale “Dipartimenti di Eccellenza 2018-2022”  
“The study, conservation, rescue and restoration of historical-artistic objects and of those connected to performing, musical, cinematographic, television and multimedia activities”  
These positions are reserved to applicants who have obtained in a foreign University the degree required to be admitted to the Ph.D. courses. |

<table>
<thead>
<tr>
<th>STUDY/RESEARCH PERIODS ABROAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES – for Pegaso Scholarships 2018 only</td>
</tr>
<tr>
<td>MINIMUM PERIOD REQUIRED</td>
</tr>
<tr>
<td>-------------------------</td>
</tr>
<tr>
<td>DOCUMENTS TO BE ENCLOSED WITH THE APPLICATION</td>
</tr>
<tr>
<td>MANDATORY DOCUMENTS</td>
</tr>
<tr>
<td>• Copy of the Identification Document</td>
</tr>
<tr>
<td>• Replacement Declaration Form</td>
</tr>
<tr>
<td>• List of university exams and marks</td>
</tr>
<tr>
<td>• Title and grade of the master thesis</td>
</tr>
<tr>
<td>• Copy of thesis (Master or equivalent degree) in .pdf format</td>
</tr>
<tr>
<td>• Curriculum vitae (education and training, professional experience, qualification documents and publications relating to the fields of the Ph.D. programme, skills and competences relevant to the evaluation)</td>
</tr>
<tr>
<td>• Research Project</td>
</tr>
<tr>
<td>OPTIONAL DOCUMENTS</td>
</tr>
<tr>
<td>• List of academic publications</td>
</tr>
<tr>
<td>RESEARCH PROJECT</td>
</tr>
<tr>
<td>MODALITY OF EVALUATION</td>
</tr>
<tr>
<td>STANDARD POSITIONS – REGIONE TOSCANA PEGASO SCHOLARSHIPS 2018</td>
</tr>
<tr>
<td>• Written examination</td>
</tr>
<tr>
<td>• Interview with the evaluation of the curriculum, of the research project and of the scientific qualification documents as detailed in the section below “Evaluation marks – Standard Positions and Regione Toscana Pegaso Scholarships 2018”</td>
</tr>
<tr>
<td>RESERVED POSITION</td>
</tr>
<tr>
<td>• Interview with the evaluation of the curriculum vitae, of the research project and of the scientific qualification documents as detailed in the section below “Evaluation marks – Reserved Position”</td>
</tr>
<tr>
<td>OTHER LANGUAGE FOR THE INTERVIEW</td>
</tr>
<tr>
<td>SKYPE INTERVIEW</td>
</tr>
</tbody>
</table>
STANDARD POSITIONS
Written examination: topics and methodologies typical of the areas of research pertaining to the Ph.D. programme.
The topics proposed by the Committee for the curricula of History of Art and History of Performing Arts will allow the applicant to develop various themes in line with the curriculum chosen by each applicant.
For the third curriculum (Technologies, Conservation and Restoration) and for the scholarships reserved for Digitalisation and Communication there will be a written exam aimed at verifying the candidate’s skill and methodological knowledge in the discipline.

Interview:
- Evaluation of the curriculum vitae
- Interview aimed at verifying the applicant’s competence in the field, the contents, suitability and methods of the proposed research project
- Assessment of the applicant’s knowledge of English and of a second language

REGIONE TOSCANA PEGASO SCHOLARSHIPS 2018
The examinations for the reserved scholarships will take place the same day as the tests for the standard scholarships, that will start later in the day, in order to guarantee the possibility of participating in both selections.
Written examination: the test will consist of an essay, the topic of which will be chosen between three and will pertain to the methods and prospects of the digitalisation of documents, surveys and resources concerning the historical-artistic and performing arts heritage.

Interview:
- Evaluation of the curriculum vitae
- Interview aimed at verifying the applicant’s competence in the field, the contents, suitability and methods of the proposed research project
- Assessment of the applicant’s knowledge of English and of a second language

RESERVED POSITION
Interview:
- Evaluation of the curriculum vitae
- Interview aimed at verifying the applicant’s competence in the field, the contents, suitability, and methods of the proposed research project
- Assessment of the applicant’s knowledge of English and of a second language
### STANDARD POSITIONS - REGIONE TOSCANA PEGASO SCHOLARSHIPS 2018

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Examination</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview: including the discussion of the research project, the curriculum vitae, academic publications and qualification documents</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Reading test and translation of texts in a foreign language (a B2 level English is requested and a second foreign language to be chosen between French, Spanish and German)</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

### RESERVED POSITION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, qualification documents and research project</td>
<td>40/60</td>
<td>60/60</td>
</tr>
<tr>
<td>Interview including the discussion of the research project</td>
<td>40/60</td>
<td>60/60</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

### THEMATICS

- The written examination for the first curriculum (History of Art) implies the historical and critical discussion of three topics among eight; these will consist of recognized images of works of art (two from the Middle Ages, two from the modern age, two from the contemporary period) and of two historiographical texts.

- The written examination for the second curriculum (History of Performing Arts) implies an essay, the topic of which will be chosen among three, that will pertain to the circumstances, problems, methods, sources and instruments of research in the field of history of theatre and of performing arts, music, cinema, radio, television and video production.

- The written examination for the third curriculum (Technologies, Conservation and Restoration) implies answering a series of questions regarding the issues of history and theory of restoration, artistic techniques, diagnostics and restoration.

- The written examination for the Regione Toscana Pegaso 2018 scholarships with the fixed subject “Digital resources for the investigation, the cataloguing and the visualisation of researches in history of art and history of performing arts” and “Communication with innovative, digital and audiovisual technologies of the contents of researches in history of art and history of performing arts” implies an essay, the topic of which will be chosen among three, that will pertain to the methods and prospects of the digitalisation of documents, surveys and resources concerning the historical-artistic and performing arts heritage.

- The examination for the reserved position implies an interview aimed at verifying the applicant’s competence in the field, the contents, suitability and methods of the proposed research project and the knowledge of English and of a second foreign language.
Further information is available on the following web page: https://www.storiartispettacolo.unifi.it/

<table>
<thead>
<tr>
<th>EXAMINATIONS SCHEDULE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DATE</strong></td>
</tr>
<tr>
<td><strong>RANKING LIST - STANDARD POSITIONS -</strong></td>
</tr>
</tbody>
</table>
| WRITTEN TEST | 4 September 2018 | 12:30 p.m. - History of Performing Arts curriculum  
1:00 p.m. - Technologies, Conservation and Restoration of Works of Art and of Performing Arts curriculum  
1:30 p.m. - History of Art curriculum |
| INTERVIEW | 12 September 2018 | 4:00 p.m. - Technologies, Conservation and Restoration of Works of Art and of Performing Arts curriculum |
| | 13 September 2018 | 9:00 a.m. - History of Performing Arts curriculum |
| | 14 September 2018 | 9:00 a.m. - History of Art curriculum |
| **RANKING LIST - REGIONE TOSCANA PEGASO SCHOLARSHIPS 2018 -** |
| WRITTEN TEST | 4 September 2018 | 10:00 a.m. - Topic: "Digital resources for the investigation, the cataloguing and the visualisation of researches in history of art and history of performing arts."  
11:00 a.m. - "Communication with innovative, digital and audiovisual technologies of the contents of researches in history of art and history of performing arts" |
| INTERVIEW | 12 September 2018 | 9:00 a.m. |
| **RANKING LIST - RESERVED POSITION -** |
| INTERVIEW | 12 September 2018 | 2:00 p.m. |

The list of candidates admitted to the written examination will be published online on the following web page: https://www.unifi.it/p11361.html

The list of candidates admitted to the oral test will be published online on the following web page: https://www.storiartispettacolo.unifi.it/ls-6-ammissione.html

The final ranking will be published online on the following web page: https://www.unifi.it/p11361.html
## Doctoral Programme in Historical Studies

Coordinator prof. Rolando Minuti

### Humanistic Area

<table>
<thead>
<tr>
<th>Administrative Office</th>
<th>Department of History, Archaeology, Geography, Fine &amp; Performing Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partner Institution</td>
<td>University of Siena</td>
</tr>
</tbody>
</table>

### Curricula

1. History and Civilisation of the Ancient World and the Near East
2. Medieval History
3. Modern History
4. Contemporary History
5. Book Sciences, Institutions and Archives
6. Public History

### Positions Available: 10

- Positions with scholarship: 10
- Position without scholarship: *not foreseen*

#### Ranking List for Standard Positions - Scholarships Available: 9

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>University of Florence</td>
</tr>
<tr>
<td>3</td>
<td>University of Siena</td>
</tr>
</tbody>
</table>

#### Ranking List for Reserved Positions - Position with Scholarship Available: 1

  Thematic: “Relationships between historical research and Public History”

This position is reserved to applicants who have obtained in a foreign University the degree required to be admitted to the Ph.D. courses

### Study/Research Periods Abroad

- Not required

### Documents to be Enclosed with the Application

#### Standard Positions and Candidates with Italian Degree

**Mandatory Documents**

- Copy of the Identification Document
- [Replacement Declaration Form](#)
- Title and grades of Master Thesis
- Copy of thesis (Master or equivalent degree)
- Curriculum vitae et studiorum
- Research project

#### Reserved Position and Candidates with Foreign Degree

**Mandatory Documents**

- University certificates in original language and translated into Italian or English
- Curriculum vitae in Italian or English
| FOR ALL POSITIONS | A copy of the thesis (or equivalent) with abstract in Italian or English  
| Research project in Italian or English  
| Certification of good knowledge of Italian (Level Standard B2) |
|**OPTIONAL DOCUMENTS** | List of scientific publications and any other qualification document  
| Copy of possible publications, which can be annexed to the application or whose accessibility the candidate can state the in an open access repository. |
|**RESEARCH PROJECT** | The project must be consistent with the Doctorate curricula, one of which must be explicitly mentioned. The project will not be less than 8000 and no more than 12000 characters (spaces included). The project must explain the research topic, highlight its original features, briefly show the state of the art concerning the subject (with appropriate bibliographic references) and the lines of investigation which the candidate thinks possible to follow during the three years of the Doctoral course. |
|**REFERENCE LETTERS** | A section is provided in the online application to specify the e-mail addresses of two professors/researchers willing to provide information about candidates training path and activities performed within a scientific field related to the Ph.D. course. |
|**MODALITY OF EVALUATION** | **STANDARD POSITIONS**  
| Evaluation of curriculum vitae, research project, publications and other qualification documents  
| Interview as detailed in the section below “Modality of evaluation – Standard positions”  
| **RESERVED POSITION WITH SCHOLARSHIP**  
| Evaluation of curriculum vitae, research project, publications and other qualification documents as detailed in the section below “Modality of evaluation – Reserved position”  
| Interview: including the discussion of the research project |
|**SKYPE INTERVIEW** | YES – possible for foreign resident only |
|**FURTHER INFORMATION ON THE EXAMINATION** | FOR ALL POSITIONS  
| The project will be discussed and evaluated in the interview. During the interview, general historical and historiographical competences will be verified, as well as particular ones concerning the research topic. During the interview the knowledge of English language will be also verified. Candidates can also prove the knowledge of other foreign languages beyond English, which can be verified and evaluated by the commission. Furthermore, only for candidates graduated from non Italian universities or who apply for a reserved position, during the interview the knowledge of Italian language (B2 Standard Level) will be verified.
### Evaluation Marks

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, qualification documents</td>
<td>5/120</td>
<td>10/120</td>
</tr>
<tr>
<td>Research project</td>
<td>35/120</td>
<td>50/120</td>
</tr>
</tbody>
</table>

Applicants who obtain a mark of at least 40/120 in the evaluation of the above parameters will be admitted to the interview.

Interview: discussion of the research project, for the evaluation of the research activity which will be carried out during the three years of the Doctoral course.

Eligibility is achieved with a minimum score of 80/120

### Reserved Position with Scholarship

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum Score</th>
<th>Maximum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, publications, qualification documents</td>
<td>40/120</td>
<td>60/120</td>
</tr>
<tr>
<td>Interview</td>
<td>40/120</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Further information is available at the following web page: [https://www.sagas.unifi.it/](https://www.sagas.unifi.it/)

### Examinations Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERVIEW 7 September 2018</td>
<td>8:30 a.m.</td>
<td>Department of History, Archaeology, Geography, Fine &amp; Performing Arts Via S. Gallo 10, Florence sala della Direzione</td>
</tr>
</tbody>
</table>

The list of the candidates admitted to the oral test and the final ranking will be published online at the following website page: [https://www.unifi.it/p11361.html](https://www.unifi.it/p11361.html)