Sapienza training offer on soft skills for Early Stage Researchers

According to the main principles of the European Charter of Researchers and other European Research Policies relevant to ERA, in 2022 Sapienza University launched a training program to increase soft skills aimed at valorising the training path of early stage researchers, with a focus on future non-academic career. The training offer enriches the curriculum of early stage researchers and promotes greater autonomy and awareness of the tools to support their career, thus enhancing the human capital employed in research activities. The 2022 edition developed as part of the actions included in Sapienza HRS4R (Human Resources Strategy For Researchers), represents an occasion for interdisciplinarity and contamination among early stages researchers from any scientific area. In the context of the RIS4CIVIS projects, 6 courses will be held in English and will be open to early stage researchers from other RIS4CIVIS institutions in order to foster Sapienza’s contribution for structuring the Alliance and to create concrete opportunities for knowledge exchange, networking and virtual mobility among RIS4CIVIS Partners. The offer will also be addressed to all participants of the ROME TECHNOPOLE project, the regional innovation ecosystem, multi-technological hub for teaching, research and technology transfer in the sectors of energy transition and sustainability, digital transformation and in the bio-pharmaceutical and health fields.  

The on-line courses – hosted by Zoom platform – will be recorded and specific documentation will be provided to participants.  

- The on-line courses – hosted by Zoom platform - will be recorded and related documentation will be provided to participants.
- The application deadline is October 21th, 2022.
- Here the registration form for the courses: https://phd.uniroma1.it/dottorati/
- All subscribers will receive the Zoom link to participate in the courses
PRESENTATION EVENT

- Participation of Sapienza University of Rome’s Rector Antonella Polimeni
- **Prof.ssa Gabriella Pasqua**, Deputy Rector for Higher Education
- **Prof.ssa Patrizia Trovalusci**, Delegate of International PhD
- **Prof. Marco Oliverio**, Deputy Rector for Quality and Enhancement of research activities & coordinator of Sapienza HRS4R Scientific Committee HRS4R
- **Dott. Ciro Franco**, Head of Research Office and Coordinator of Sapienza HRS4R Management Board
- **Dott.ssa Romina Caronna**, Head of PhD Unit
- **Dott. Diego Sebastiani**, Representative of ADI - Association of PhD Students and Research Doctors in Italy

November 4th 2022
h. 11:00-13:00

Presentation event scheduled for November 4th at 11:00 AM, at the Rectorate’s Aula Magna

Here the registration form for the presentation event: [https://phd.uniroma1.it/dottorati/](https://phd.uniroma1.it/dottorati/)

The application deadline is October 21th, 2022.
## Domain A. R&I project writing

### 1. Collaborative project writing and networking in the context of Horizon Europe. Services and tools for supporting researchers

<table>
<thead>
<tr>
<th>Speakers</th>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dott. Emanuele Gennuso</td>
<td>Prof.ssa Francesca Apollonio, Prof. Marino Bonaiuto, Prof. Fabio Sciarrino, Prof.ssa Marianna Villano</td>
</tr>
</tbody>
</table>

Overview on the main opportunities for research and innovation collaborative projects financed by the Horizon Europe Programme; EUI R&I funding instruments for the period 2021-2027. Main topics: Structure of Horizon Europe and implementation strategy; Rules of eligibility and participation; How to identify a call for proposal; How to plan and write a successful collaborative project. Practical suggestions from professors with direct experience as scientists in charge of research projects financed by European Union, under different programs and thematic areas.

**When:** 4/11/2022 h. 14:30-17:30

**Module in English**

**Open for PhD students of RIS4CIVIS institutions**

### 2. Evaluation processes in EU R&I funding programmes

<table>
<thead>
<tr>
<th>Speakers</th>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dott. Ciro Franco</td>
<td>Prof. Alessandro Saggioro, Prof.ssa Alessandra Della Torre</td>
</tr>
</tbody>
</table>

The Course will be focused on a shift of the applicant approach from researcher’s perspective to the European point of view, highlighting strengths and weaknesses of a project proposal from the evaluator point of view. More in detail, the objective is to evidence the evaluator’s approach and the awareness about evaluation processes as key aspects to a successful proposal.

**When:** 18/11/2022 h. 11:00-13:00

**Module in English**

**Open for PhD students of RIS4CIVIS institutions**

## Domain B. Scientific calculation tools and Big data

### 1. Introduction to ML/DL and to Pytorch

<table>
<thead>
<tr>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Mauro Valorani, Prof. Fabrizio Silvestri</td>
</tr>
</tbody>
</table>

The Module will include the main concepts, topics and ideas relating to Machine Learning and how they extend to Deep Learning. The session will be aimed at introducing Pytorch as the main framework that will be used during the rest of the minicourse.

**When:** 30/11/2022 h. 9:30-12:30

**Module in English**

**Open for PhD students of RIS4CIVIS institutions**

### 2. From linear Regression to Deep Models using Neural Networks

<table>
<thead>
<tr>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Fabrizio Silvestri</td>
</tr>
</tbody>
</table>

The aim is to show, using Pytorch, how to build by the use of Pytorch a first deep learning model (namely a deep multilayer perceptron) using the same building blocks as in simpler models such as linear regression.

**When:** 1/12/2022 h. 9:30-12:30

**Module in English**

**Open for PhD students of RIS4CIVIS institutions**

### 3. Advanced Deep Learning

<table>
<thead>
<tr>
<th>Professors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof. Fabrizio Silvestri</td>
</tr>
</tbody>
</table>

In the last part of the module, a first pipeline, that will label images using deep convolutional neural networks, will be built. This will serve as the first example of what a deep learning models are capable of doing.

**When:** 2/12/2022 h. 9:30-11:30

**Module in English**

**Open for PhD students of RIS4CIVIS institutions**
<table>
<thead>
<tr>
<th>MODULO</th>
<th>RELATORI</th>
<th>DOCENTI SAPIENZA</th>
<th>CONTENUTI</th>
<th>DATE E DETTAGLI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domain C. Research Data Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pubblications and research data: Open Access</td>
<td>Dott. Enrico Dotti</td>
<td></td>
<td>Introduction to Open Access: brief history, the different models (green road and gold road), advantages of open access. Brief illustration of the Sapienza policy on open access. Open data: from data sharing to intelligent data openness. Pros and cons of data sharing. How much are scientific research data shared?</td>
<td>17/11/2022</td>
</tr>
<tr>
<td></td>
<td>Dott.ssa Maryjoan</td>
<td></td>
<td></td>
<td>h. 14.30-15.30</td>
</tr>
<tr>
<td></td>
<td>Crowley</td>
<td></td>
<td></td>
<td>Module in English Open for PhD students of RIS4CIVIS institutions</td>
</tr>
</tbody>
</table>

For information:
Research Support Office (Sapienza Università di Roma) – ciro.franco@uniroma1.it