Course: Open Science and Research Data Management

External teachers: Emma Lazzeri and Gina Pavone
Internal teachers: Donatella Tamagno and Marco Tomassini

Programme

Module 1 - Open Science and Research assessment
2 hrs.

The first module introduces the course and its topics, outlining the motivations behind Open Science and exploring the main aspects of Open Access to scientific publications. It will also focus on research assessment, which has become crucial in the transition to the Open Science paradigm. The module will be an opportunity to discuss how scientific and scholarly communication works, how to ensure Open Access to scientific publications, what the current business models are, and what are the possible solutions to overcome the barriers to Open Science through an innovative, transparent, robust and sustainable scientific working method.

1hr.
Introduction to the use of the IRIS research institutional archive with which it is possible to open the research results: procedure for filing research products and other archive functions.

Module 2 - Research Data Management
3,5 hrs.

In this module, the rationale and basic elements of research data management will be introduced. The FAIR (Findable, Accessible, Interoperable, Reusable) principles will be explained, going into detail on how they can be applied in practice. The legal aspects of Research Data Management will also be addressed, including the cases in which data can be protected and licenses for reuse.

Module 3 - Practical session on Research Data Management Plan
3,5 hrs.

Hands-on session. This module will be a practical training on drafting a research Data Management Plan. Building on what has been learned in the previous modules, students will create a simplified version of a management plan for the data collected and analysed during their PhD. During the session, the basic elements of the DMP will be introduced, and examples will be shown in order to inspire students. This session will be highly interactive (small group work for face-to-face lectures, use of specific tools for online lectures). The exercises carried out by students will be commented on, and all the topics covered during the course will be discussed.