Finanziato dall'Unione europea NextGenerationEU
Ministero dell'Università e della Ricerca
Italiadomani PIANO NAZIONALE DI RIPRESA E RESILIENZA
Consiglio Nazionale delle Ricerche

Data lifecycle and architectures in the social sciences

October 4-5, 2023
online training

FOSSR
Fostering Open Science in Social Science Research
Innovative tools and services to investigate economic and societal change

Agenda and contents

Oct. 4

9:00 **Module 1.** Data life cycle
Loredana Cerbara, Nicolò Marchesini (CNR-IRPPS)

The module will address the main issues that can arise from design to data production and storage and finally to data access and analysis. It offers the opportunity to analyse and reflect on the entire production plan on an important occasion, especially for those approaching these issues for the first time.

11:00 *coffee break*

11:15 **Module 2.** Data curation and conservation
Loredana Cerbara, Nicolò Marchesini

The main methods and tools for privacy and compliance with the GDPR 2016 are illustrated. The approach chosen in the CNR area will be used for managing personal data, risk analysis, implementation of actions and tools for risk reduction to guarantee the rights of data subjects. Eventually, some social science platforms for open data sharing (e.g. CESSDA - Consortium of European Social Science Data Archives - or Zenodo) will be shown, in line with open science principles. This last aspect will be taken care of together with the forthcoming course lecturers on data management. Even some platforms already in place (such as DASSI - Social Sciences Data Archives Italy -, Italian node of CESSDA) will be shown as examples of data production and processing and as a possibility interoperability between platforms.

13:15 *lunch break*

14:30 **Online laboratory**

Oct. 5

9:00 **Module 3.** Data typologies and architectures in the social sciences
Loredana Cerbara, Nicolò Marchesini

The different types of data, typical of the social sciences, must necessarily be treated in different ways and methods that are appropriate to the data's measurement level. Students will have the opportunity to create sample databases designed to apply a reading of information with statistical methods. Eventually, some social science platforms for open data sharing (e.g. CESSDA - Consortium of European Social Science Data Archives - or Zenodo, RISIS, SHARE, GGP but also Italian Online Probability Panel (IOPP)) will be shown, in line with open science principles. Particularly, some platforms (such as DASSI - Social Sciences Data Archives Italy -, Italian node of CESSDA) will be shown as examples of data production and processing and as a possibility interoperability between platforms.

11:00 *coffee break*

11:15 **Module 4.** Statistics for the social sciences
Loredana Cerbara, Nicolò Marchesini

Even if statistics for the social sciences is a vast topic that is difficult to deal with in a single lesson, a general overview of the approaches and families of methods generally used is considered necessary, which can constitute a guide for those approaching this topic. For this reason an overview of quantitative and qualitative analysis will be done and students will directly experience the application of some quantity methods with sample data.

13:15 *lunch break*

14:30 **Online laboratory**

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Training objectives

The **growing availability and diffusion of data from different sources, which is not always reliable, makes producing high-quality information particularly important.**
One of the elements contributing to this factor is the control of the entire data production process. In fact, **the high quality of the data, and the consequent greater reliability, depend on the choices made throughout the process, and each step contributes significantly to this result**.
The proposal intends to **provide basic training** inspired by the many years of experience in producing CNR-IRPPS data. In particular, we intend **to clarify methodological choices in creating databases that are produced to answer research questions or fill information gaps relevant to society and institutions**.

Course description

The course consists of 4 two-hour **front lesson** modules as well as 4 hours of exercises in the form of a **soft laboratory in online mode**, allowing the participants to test what is reported theoretically. Participants will have an electronic test environment relating to their work group on the Limesurvey application available at CNR-IRPPS.
At the end of the course, the work carried out in the laboratories will be considered together with a closed-answer test required of each participant to verify the skills acquired.

Audience

This course is designed for people who are involved or would like to be involved in **creating, capturing, analysing or managing research data within the social science disciplines**. The target audience includes but is not limited to **post-doc, recent graduates or undergraduates and young researchers who aim to become researchers, technicians, data stewards and data managers**, especially if they would like to be involved in the various phases of the data management process.
The course can be of interest to both **young researchers**, even in training, who want to approach the **production, archiving and management of data,** and to those who, coming from other disciplines, do not have the necessary training to understand its potential fully, despite needing to use high-quality data.
Participation in groups is also permitted to encourage the use of multiple types of skills, as it happens in a scientific research team.

How to apply

Applications should be submitted through the form at:
l.cnr.it/fossr-training-ott-23
within ***September 30th, 2023***
contact person for info: **loredana.cerbara@cnr.it**

Organisational details

The course will be held online; the link will be provided to participants in due time before the beginning of the course.
Lessons will be held in the Italian language. Teaching materials, thematic literature and notes on the topics covered will be available to all participants in English.
Each afternoon laboratory session is expected to last 2 hours on average.

The training is organised by CNR-IRPPS, in the frame of the FOSSR project.
Local organising committee: Loredana Cerbara, Nicolò Marchesini.

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