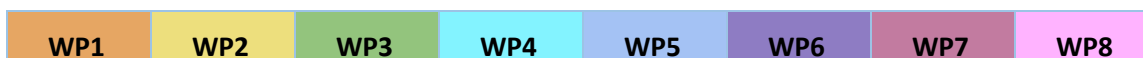


ROMOR Parma Study School 2019

Data Stewardship - Syllabus

Author(s)	Anna Maria Tammaro, Stefano Caselli
Document status	Final
Document version and date	v.1, 12/10/2019
Dissemination level	Public

Mobility Strand



FAIR Research Data Management

SYNOPSIS

The Parma Study School (1-10 July 2019) is part of ROMOR mobility program and aims to train junior scientists, support services staff and librarians in implementing the FAIR principles for research data & software management.

The Study School theme is Data Stewardship, defined as:

" the process and attitudes that makes one deal responsibly with one's own and other people data throughout and after the initial scientific creation and discovery cycle. FAIR data are data which meet standards of findability, accessibility, interoperability, and reusability".

A data steward, or data curator, is a person responsible for overseeing the lifecycle activities of a set of data. Currently, adequate skills are lacking and new roles are needed for support services.

The pedagogy will be including lectures, visits to good practice organizations and laboratory planned together with Data Carpentry organization, experiencing data reusing and visualization.

Group Work Task

Write a Webpage for data stewardship support service

Learning Outcomes

The learning objectives will focus on the FAIR principles related to interoperability and re-using research data.

Participant will acquire knowledge, expertise and practical experience in achieving the following outcomes:

- Planning a Research outputs management campaign.
- Reusing research data for the full research lifecycle.

Video Introduction to the Study School

Anna Maria Tamaro and Ilaria Fava

<https://www.youtube.com/watch?v=h0wt2lc8Ki0&feature=youtu.be>

Group Work Task

Anna Maria Tamaro

https://drive.google.com/file/d/1xLMp9A318F0gvqZlWbRbKW8_FPrCN-px/view

Bibliography

ROMOR Study School Parma 2019 Handbook

Wilkinson et al., "The FAIR Guiding Principles for Scientific Data Management and Stewardship." Scientific Data volume 3, Article number: 160018 (2016)

<https://www.nature.com/articles/sdata201618>

Main topic	Content	Readings and learning material
Data Stewardship Core	<p>This Unit introduces FAIR Principles and focus on Data User.</p> <p>Learning outcomes</p> <p>The participant will be able to:</p> <p>Understand Data stewardship Core</p> <p>Know tools and services for Access</p> <p>Apply best practice for Digital archiving, Metadata, Standard formats for different typologies of research data</p>	<p>Introduction and overview of FAIR Peter Burnhill</p> <p>Definition of Data Stewardship Janet Delve and David Anderson</p> <p>Data user: Access and relationship to Articles Peter Burnhill</p> <p>Data curator in an international context Anna Maria Tamaro</p>
Community driven tools and support services for Research Data	<p>This Unit focuses on the Open Science context and the recommended infrastructure.</p> <p>Learning outcomes</p> <p>The participant will be able to:</p> <p>Understand the political and organizational context of data stewardship</p> <p>Apply the COAR recommendations for next generation institutional repositories</p>	<p>COAR Next generation repositories Working Group recommendations by Susanna Mornati</p> <p>Community driven tools and support services by Emma Lazzeri</p>

<p>Copyright, Creative Commons, Privacy issues</p>	<p>This Unit will focus on the legal framework for Data Stewardship</p> <p>Learning outcomes Participants will be able to: Understand Copyright and Creative Commons Apply Privacy principles Apply DOI and ORCID</p>	<p>Copyright and Creative Commons, GDPR and DOI Janet Delve Anderson and David Anderson</p>
<p>Use, preservation and citation of Web resources</p>	<p>This Unit will focus on scholarly communication and stewardship role for affordability of scholarly record</p> <p>Learning outcomes Participants will be able to: Understand the scholarly communication cycle Apply curation activities in the different steps of the cycle</p>	<p>Use, preservation and citation of Web resources by Peter Burnhill</p>
<p>Data Stewardship Good Practice</p>	<p>This Unit will focus on case studies of tools and support services offered by universities in Europe</p> <p>Learning outcomes Participants will be able to: Evaluate and analyze specific case studies organization Apply lessons learnt to the Group Work Task</p>	<p>University of Bologna Case Study Marialaura Vignocchi</p> <p>University of Venice Case Study. Single Point of entry Marisol Occioni</p> <p>European University Institute RDM Case Study</p> <p>Organization of Research Data Management Thomas Bourke</p> <p>EUI Institutional Repository CADMO Lotta Svantesson</p>

Practicum

Data Carpentry Laboratory

Laboratory on tools for reusing data: Spreadsheet, Open Refine, R by Marianne Corvellec and Nilani Ganeshwaran

This Library Carpentry Laboratory will focus on tools for reusing data

Learning outcomes

Participants will be introduced to:

Fundamentals of computing

Library Carpentry provides participants with a platform for further self-directed learning.

For more information: "Library Carpentry: software skills training for library professionals".