

Overview of learning opportunities: FAIR Research Data Management

PATTERN mapping of
open Responsible
Research and
Innovation (RRI)
training opportunities
for researchers



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1 Introduction

Welcome to the PATTERN summary booklet presenting the results of our recent mapping activity which identified over 60 available training courses and resources on FAIR Research Data Management tailored to researchers and research supporters at every stage of their career.

You can find the full report **“Report on the analysis of existing training activities and quality assessment”**

here!

1.1 What is FAIR Research Data Management (RDM)?

FAIR RDM refers to a set of principles and practices in Research Data Management (RDM) that are designed to make **data Findable, Accessible, Interoperable, and Reusable (FAIR)**. The FAIR principles aim to improve the ways in which research data can be used and reused, not just by humans but also by machines. The implementation of FAIR RDM is essential for ensuring responsible and reproducible research and is increasingly becoming a requirement by research funders and policy makers.

Implementing the FAIR principles in RDM not only **facilitates better data sharing and collaboration among researchers** but also contributes to the **advancement of open science** by making research data more accessible and usable for a wider community.

We invite you to delve into these **highlights**, which serves as a valuable resource for **researchers seeking to enhance their understanding of FAIR RDM**.

You can find the full report with **many more resources on FAIR RDM** in the “Report on the analysis of existing training activities and quality assessment”

here!

2 Highlights of mapped FAIR RDM learning resources







These five courses and one guide are selected to give you guidance in FAIR Research Data Management (RDM). Depending on your prior knowledge on the interlinked themes of RDM, FAIR, and Open Science, you may want to follow an introductory course on FAIR (2.1), RDM (2.2), and/or take a deeper dive into these topics (we recommend to choose one of 2.3, 2.4, 2.5). If you prefer to learn through a comprehensive guide or want to look something up after you finished the course(s), the learning resource in 2.6 is for you.

We made this selection to cover the basics of FAIR RDM through online, self-paced learning. The resources chosen here are all freely available. This is, however, only a selection, and there are other, equally excellent courses and many more guides and webpages available on FAIR and RDM.



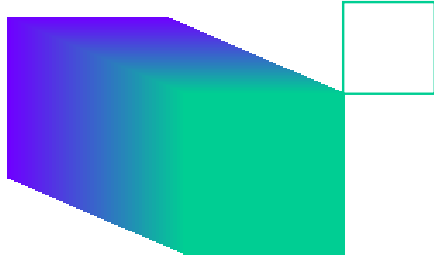
2.1 FOSTER – Open and FAIR Research Data









This is a short, recently updated course introducing the concepts of FAIR and Open research data, the difference between the two, as well as their advantages and disadvantages. The course also introduces the data curation life cycle. If you are new to FAIR data and/or Open Science, this is an excellent course to start with! And if afterwards you are ready for more, the current hosting platform OpenPlato has got several other relevant courses for a deeper dive into FAIR RDM (such as the course in 2.3).

 Training mode	Online, self-paced
 Link	Click here
 Year	2023 (version 2)
 Duration	Ca 1 hour
 Organisation	FOSTER Open Science, FIT4RRI
 Primary language	English
 Expertise level	Beginner
 Certificate or qualification	Not at the moment

2.2 Research Data Management

To conduct FAIR RDM, it is important that you have basic RDM knowledge and skills, such as knowing how to store and share data during your research. This course is a good introduction, with text, videos, and exercises, which can all be done online at your own pace. While designed for researchers at the University of Cambridge, the course is openly available. It is accompanied by a [comprehensive guide](#).












 Training mode	Online, self-paced
 Link	Click here
 Year	Not indicated
 Duration	1 hour
 Organisation	Cambridge University Libraries
 Primary language	English
 Expertise level	Beginner
 Certificate or qualification	None

2.3 FOSTER – Managing and Sharing Research Data

This online, self-paced course looks at research data and how to manage and share these. It is a good choice if you want a course that goes into a bit more depth than the Open and FAIR Research Data course (2.1), but it is also suitable for beginners. After following this course, you will:

- understand the differences between open, closed, and shared data,
- be able to make decisions about which data you can share,
- know what a Data Management Plan (DMP) is,
- be aware of the FAIR principles,
- know how to get maximum impact from sharing your research data.



 Training mode	Online, self-paced
 Link	Click here
 Year	2023 (v2)
 Duration	1-2 hours
 Organisation	FOSTER Open Science
 Primary language	English
 Expertise level	Beginner, Intermediate
 Certificate or qualification	Not at the moment

2.4 MANTRA – FAIR sharing and access








This online, self-paced course is a good alternative to the FOSTER course on managing and sharing data. After completing this course, you will:









- be informed about the benefits and barriers to sharing data,
- understand the principles of open research data,
- know about the FAIR principles and how to share your research data in a way that is FAIR,
- recognize why you might choose to license your dataset, and the different types of open license available,
- be aware of the role of data access statements when publishing the results of your research.

The [Research Data MANTRA](#) page also offers units on other data management aspects as well as a [five-week MOOC](#) for a really solid research data management skills.

2.5 How to FAIR









This excellent, online, self-paced course allows you to get familiar with how to make your data more FAIR. For complete beginners, this website also has information on what FAIR is and why to apply it. It then takes you through six FAIRification practices: 1. Documentation, 2. File formats, 3. Metadata, 4. Access to data, 5. Persistent identifiers, 6. Data licenses. Through text and videos, including examples of how people have applied this to their research, you learn about each of these topics. At the end, you can test your knowledge through a quiz.

 Training mode	Online, self-paced
 Link	Click here
 Year	Last updated 2022 (original date unknown)
 Duration	1-2 hours
 Organisation	University of Edinburgh Research Data Service
 Primary language	English
 Expertise level	Beginner
 Certificate or qualification	None

 Training mode	Online, self-paced
 Link	Click here
 Year	2020
 Duration	Just over 1 hour
 Organisation	Danish National Forum for Research Data Management
 Primary language	English
 Expertise level	Beginner, Intermediate
 Certificate or qualification	None

2.6 Data Management Expert Guide

The comprehensive CESSDA Data Management Expert Guide is not a training course but can be used as a learning resource. The online guide offers a wealth of information on each of the stages of a research project (plan, organise & document, process, store, protect, archive & publish, discover), with topics like documentation and metadata, where and how to store your data safely in the short- and the long term, and how to publish data. You can use the guide to learn about FAIR RDM from scratch or as a resource to look up specific topics. It is focused on the social sciences but almost all the information is generally applicable.

 Training mode	Online, guide
 Link	Click here
 Year	Last updated 2022
 Duration	Unknown
 Organisation	CESSDA
 Primary language	English
 Expertise level	All
 Certificate or qualification	N/A



You can find the full report with **many more courses, guides,** and other training materials **on FAIR RDM** in the “Report on the analysis of existing training activities and quality assessment”

[here!](#)

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