

## Nature Research Academies Data Training:

### Digital Delivery

#### Product features:

- Choose an agenda of 3-6 modules.
- Each module lasts 2 hours, comprising of short lectures interspersed with interactive exercises, a digital workbook with resources to keep, and 30 minutes Q&A with the data trainer during each session.
- Modules can be delivered on consecutive days or across weeks if preferred.
- Modules will be tailored according to the discipline of the participants, with relevant examples given.

#### Available modules:

**We recommend that every course begins with Module One: The Context for Data Sharing.**

##### *Module One: The Context for Data Sharing*

This module provides the context for the Open Science and data sharing, and why it is important for researchers to share their data. The common drivers for data sharing, including institutional, funder and journal policies are covered, as well as the ways that data sharing requirements impact directly on researchers. Participants also learn how they can ensure compliance with the data policies which apply to them. The benefits to both researchers and to the wider researcher community are also discussed.

**Then choose between 2-5 additional modules to build an agenda:**

##### *Module Two: Allowing reuse and gaining credit for your research*

In this module, external data sharing is considered. Copyright for data and data licensing options are reviewed and their value is described. The importance of data citation is discussed, and participants will prepare data citations based on best practice examples.

##### *Module Three: Data Publishing*

In this module, the breadth of options for data publication are described. Participants will learn about publishing options for data papers and data journals, as well as the way metrics can be used to track use and citation of their data.

##### *Module Four: From Active Data to Archived Data*

This module introduces the practical aspects of data sharing which researchers will need to understand before making their data openly available. The importance of metadata, and practical

ways to capture it are discussed, as well as the necessity of storage and back-up while research is being conducted. Participants will also learn how to identify appropriate repositories for data sharing.

*Module Five: Practical Application of the FAIR Data Principles*

This module gives an in-depth introduction to the practical applications of the FAIR Data Principles, a standard for data sharing which all researchers should be familiar with. The ways that researchers can apply the principles to their own data are discussed with contextual examples, as well as the relevance of these standards to all aspects of data infrastructure.

*Module Six: Sharing Sensitive Research Data*

This module addresses challenges and techniques in sensitive data sharing. Participants will learn how to address the collection and dissemination of sensitive data, including preparation before their research begins. Techniques for anonymising or de-identifying data are also discussed, with reference to both qualitative and quantitative sensitive data.