# Plan Overview

A Data Management Plan created using DMPonline

**Title:** Shaping a modern approach to open data from a World-leading science facility

**Creator:** Nian Yang Terence Tan

## Principal Investigator: Nian Yang Terence Tan

**Data Manager:** Nian Yang Terence Tan

**Contributor:** Steve Collins, Philippe Rocca-Serra, Susanna-Assunta Sansone

**Affiliation:** University of Oxford

**Funder:** STFC (Science and Technology Facilities Council), University of Oxford

**Template:** STFC Template

**ORCID iD:** 0009-0008-7829-3647

**Project abstract:**

This project is a collaboration between the University of Oxford and Diamond Light Source that aims to understand the opportunities and barriers in moving towards FAIR (Findable, Accessible, Interoperable, Reusuable) and open data within the Photon and Neutron scientific community. The project is designed to improve the FAIRness level of the science life cycle at Diamond, and deliver novel conceptual and methodological contributions to enhance the value of Diamond research data, while

leveraging on and complementing the activities of existing communities and projects.

**ID:** 152807

**Start date:** 01-10-2023

**End date:** 30-09-2027

**Last modified:** 19-07-2024

# Shaping a modern approach to open data from a World-leading science facility

## Data types

**Specify the types of data the research will generate.**

1. Collecting as many experiment proposals as possible from Diamond Light Source as well as other Photon and Neutron facilities such as the European Synchrotron Radiation Facility.

Title

Authors

Abstract

References (if applicable)

DOI (if applicable)

1. Creating metadata of all the collected experiment proposals. Metadata will be structured in a machine-readable format and linked to the respective experiment proposals.

Topic

Experimental techniques

1. Producing Python code in Visual Studio Code to collect the experiment proposals and create the associated metadata.
2. Collecting web survey responses from Diamond staff and researchers (number to bedetermined later).
3. Creating audio recordings of interviews with Diamond staff and researchers (number to be determined later).

## Data preservation

**Specify which data will be preserved and how.**

All data will be uploaded to and stored on a public GitHub repository (https://github.com/terencetan-c/Project-Stakeholder-Group).

**Specify the software and metadata implications.**

The Python script used to collect the experiment proposals and create the associated metadata will be provided so that others can reproduce the data. Comments will also be added so that others can understand the code.

A README file will be created in the GitHub repository to describe and contextualise the various data files.

**Specify for how long the data will be preserved.**

Data can be stored indefinitely on GitHub repositories.

## Data sharing

**Specify and justify which data will have value to others and should be shared.**

All data will be shared with permission from the University of Oxford and Diamond Light Source.

**Specify and justify the length of any proprietary period.**

All data excluding the code will be uploaded to the GitHub repository as soon as possible, with the exception of information deemed confidential by the University of Oxford or Diamond Light Source. The code will be cleaned up and uploaded together with the submission of the thesis.

**Specify how data will be shared**

The data will be available via the GitHub repository.

## Resources

**Specify and justify any resources required to preserve and share the data.**

GitHub