
Plan Overview

A Data Management Plan created using DMPonline

Title: Exploring the Current Level of Human-AI collaboration for AI Diffusion in the Radiology Department at University Hospitals: A Diffusion of Innovation Theory Perspective

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Exploring the Current Level of Human-AI collaboration for AI Diffusion in the Radiology Department at University Hospitals: A Diffusion of Innovation Theory Perspective

Manchester Data Management Outline

1. Will this project be reviewed by any of the following bodies (please select all that apply)?

- Ethics

2. Is The University of Manchester collaborating with other institutions on this project?

- No - only institution involved

3. What data will you use in this project (please select all that apply)?

- Acquire new data

We will have semi-structured with radiologists at university hospitals in Greater Manchester. The data will consists of the videos recording through Microsoft Teams of radiologists in their professional context.

4. Where will the data be stored and backed-up during the project lifetime?

- Other storage system (please list below)

Data will be stored in a University of Manchester password protected secure One Drive folder, which is an Information Governance Office (IGO) approved data storage system and the first choice of platform for storing information.

5. If you will be using Research Data Storage, how much storage will you require?

- Not applicable

6. Are you going to be receiving data from, or sharing data with an external third party?

- No

7. How long do you intend to keep your data for after the end of your project (in years)?

- 5 - 10 years

Guidance for questions 8 to 13

Highly restricted information defined in the [Information security classification, ownership and secure information handling SOP](#) is information that requires enhanced security as unauthorised disclosure could cause significant harm to individuals or to the University and its ambitions in respect of its purpose, vision and values. This could be: information that is subject to export controls; valuable intellectual property; security sensitive material or research in key industrial fields at particular risk of being targeted by foreign states. See more [examples of highly restricted information](#).

If you are using 'Very Sensitive' information as defined by the [Information Security Classification, Ownerships and Secure Information Handling SOP](#), please consult the [Information Governance Office](#) for guidance.

Personal information, also known as personal data, relates to identifiable living individuals. Personal data is classed as special category personal data if it includes any of the following types of information about an identifiable living individual: racial or ethnic origin; political opinions; religious or similar philosophical beliefs; trade union membership; genetic data; biometric data; health data; sexual life; sexual orientation.

Please note that in line with [data protection law](#) (the UK General Data Protection Regulation and Data Protection Act 2018), personal information should only be stored in an identifiable form for as long as is necessary for the project; it should be pseudonymised (partially de-identified) and/or anonymised (completely de-identified) as soon as practically possible. You must obtain the appropriate [ethical approval](#) in order to use identifiable personal data.

8. What type of information will you be processing (please select all that apply)?

- Personal information, including signed consent forms
- Audio and/or video recordings
- Pseudonymised personal data

9. How do you plan to store, protect and ensure confidentiality of any highly restricted data or personal data (please select all that apply)?

- Where needed, follow University of Manchester guidelines for disposing of personal data
- Store data on University of Manchester approved and securely backed up servers or computers

10. If you are storing personal information (including contact details) will you need to keep it beyond the end of the project?

- No

11. Will the participants' information (personal and/or sensitive) be shared with or accessed by anyone outside of the University of Manchester?

- No

12. If you will be sharing personal information outside of the University of Manchester will the individual or organisation you are sharing with be outside the EEA?

- No

13. Are you planning to use the personal information for future purposes such as research?

- No

14. Will this project use innovative technologies to collect or process data?

- No

15. Who will act as the data custodian for this study, and so be responsible for the information involved?

Dr Mabel Sanchez Barrioluengo, Professor Silvia Massini

16. Please provide the date on which this plan was last reviewed (dd/mm/yyyy).

2026-03-21

Project details

What is the purpose of your research project?

The project explores the current level of AI diffusion within the radiology departments in university hospitals. This will serve as a steppingstone for the PhD project which will later aim to explore the interdisciplinary collaboration between different departments such as the computer department at the University of Manchester and the daily work of radiologists.

What policies and guidelines on data management, data sharing, and data security are relevant to your research project?

The University of Manchester Records Management Policy
<https://documents.manchester.ac.uk/DocuInfo.aspx?DocID=14916>
The University of Manchester Data Protection Policy
<https://documents.manchester.ac.uk/DocuInfo.aspx?DocID=14914>
The University of Manchester Intellectual Property Policy
<https://documents.manchester.ac.uk/DocuInfo.aspx?DocID=24420>

Responsibilities and Resources

Who will be responsible for data management?

Dr Mabel Sanchez Barrioluengo, Prof. Silvia Massini, Han Phan. The responsibility can be divided as follows:

Dr Mabel Sanchez Barrioluengo and Prof Silvia Massini

Will provide insight and feedback for the project management plan and the ethics application process

Will ensure all data management activities comply with university policies and legal requirements

Will oversee decisions regarding the long-term plan for the data storage

Han Phan (MRes student):

Will be responsible for collect the data, label the different files for each interview and ensure to store the dataset in a safe and secure place.

What resources will you require to deliver your plan?

To be confirmed

Data Collection

What data will you collect or create?

he primary data for this study comprises semi-structured interviews conducted with radiologists at university hospitals in Greater Manchester.

The dataset includes the following types of data:

- **Online interview recordings** conducted via Microsoft Teams with radiologists. These constitute digital video data in **MPEG-4 (.mp4)** format.
- **Interview transcripts**, representing qualitative textual data, provided in **Microsoft Word (.docx)** format.

The estimated total storage requirement is **1 TB**. The study involves **10 radiologist participants**, and each interview lasts approximately **30 to 45 minutes**.

Both data formats have been chosen to facilitate secure sharing and ensure long-term preservation of the dataset. However, regarding data access, any external researchers or regulatory bodies must first consult with the research team—either via email or through an in-person meeting—before permission to access the data is granted.

How will the data be collected or created?

In terms of data collection, the researcher only record the contents that approved by the ethics committee. The video recordings will be limited only to the information the aims of the research project and the list of questions that has already submitted to the ethics approval process. Since it's online interviews, the location for recording the video will be choosen based on the suitable for the potential interviewees. During the interviews's process, the researcher won't record the interviewees' names.

The researcher will be responsible for the recording device, the researcher will ensure that it is never left unattended and that it is securely stored when not in use. If the device is shared among users, all recordings must be deleted before it is passed on to the next user.

Documentation and Metadata

What documentation and metadata will accompany the data?

The dataset for this project consists of video recordings in MP4 format alongside corresponding transcripts in the Word documents format. Access to and use of these materials will require future users to meet the following essential crtierias:

1. Demonstrated advanced and critical understanding of qualitative research methodologies, particularly within the domains knowledge of medical innovation and the social sciences broadly.
2. An understanding of the key knowlegde includes Human-AI collaboration, AI diffusion, digital transformation, and job displacement.
3. Prior consultation via email or in-person meeting with the research team to obtain approval for data access.

Ethics and Legal Compliance

How will you manage any ethical issues?

The student will follow the step by step in the ERM student guide to prepare for the ethics application form and the required documents such as Data Management Plan, Personal Information Sheet, Consent Form. The student also sent the prepared application to the supervisors team to check before contacting any potential participants, or any data collection begins. The researcher only use the university email to contact with the potential participants.

This is a low-risk professional study with radiologists in the university hospitals in Greater Manchester. If a participants mention their personal information during the interview through Microsoft Team, the researcher will give the identifiers to the participants during the transcripts and won't reveal any personal information. The personal information includes their name, how long they have been working with AI in their work at the university hospitals.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

The Alliance Manchester Business School, the University of Manchester will own the copyright and the IPR of the new data that this project will generate.

Storage and backup

How will the data be stored and backed up?

All the project data will be stored on the University of Manchester OneDrive linked to the student's university account. This is a secure, university-approved, cloud-based storage solution.

How will you manage access and security?

We only give access to other researchers at the University of Manchester or regulatory authorities if the participants give agreements in the consent forms.

If participants have agreed in the consent forms, other researchers must consult with the research team, either via emails or in-person meetings, before being granted access to the dataset.

Selection and Preservation

Which data should be retained, shared, and/or preserved?

Following the data-collection period, the dataset will be processed and used to directly support the findings, which will be made available upon the requests from the participants or other researchers. The original data from the semi-structured interviews will be retained and preserved in full. Each participants will be assigned an ID, for example, "participant 1", "participant 2". This will be used to replace their personal information.

What is the long-term preservation plan for the dataset?

In terms of the long-term preservation plan for the dataset, the chosen format (docx, recordings) are chosen because of its standard and stable, making them suitable for the long-term preservation plan and can be used in the future for the PhD programme.

Data Sharing**How will you share the data?**

We only give access to other researchers from the University of Manchester or regulatory authorities if the participants give agreements in the consent forms. If participants have agreed in the consent forms, other researchers must consult with the research team, either via emails or in-person meetings, before being granted access to the dataset.

Are any restrictions on data sharing required?

There are no restrictions required on data sharing.