

Data Management Plan Bootcamp

u.mcmaster.ca/scds-events

October 4, 2024 | 1:00 pm
In-Person Workshop



**Sherman
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Data Management Plan Bootcamp

Isaac Pratt, PhD and Danica Evering, MA
October 4, 2024





Land Acknowledgement

McMaster University is located on the traditional territories of the Mississauga and Haudenosaunee Nations. Settlers have responsibilities under the Silver Covenant Chain Wampum, part of the 1764 Treaty of Niagara.

Georgia Kirkos, "Cootes Trail," October 29, 2021, McMaster University, Hamilton, Ontario, Canada

<https://brand-resources.mcmaster.ca/asset-bank/action/viewAsset?id=40841&index=14&total=34&view=viewSearchItem>



Code of Conduct

The Sherman Centre and the McMaster University Library are committed to fostering a supportive and inclusive environment for its presenters and participants.

As a participant in this session, you agree to support and help cultivate an experience that is collaborative, respectful, and inclusive, as well as free of harassment, discrimination, and oppression. We reserve the right to remove participants who exhibit harassing, malicious, or persistently disruptive behaviour.

Please refer to our code of conduct webpage for more information: scds.ca/events/code-of-conduct

Session Recording and Privacy

This session is being recorded with the intention of being shared publicly via the web for future audiences. In respect of your privacy, participant lists will not be shared outside of this session, nor will question or chat transcripts.

Questions asked via the chat box will be read by the facilitator without identifying you. Note that you may be identifiable when asking a question during the session in an audio or visual format.

Book an Appointment with the RDM Team

McMaster RDM Specialists are available to consult on and assist with a variety of research data management topics including:

- General consulting on data management needs
- Assisting researchers in creating Data Management Plans and in using the Portage Network DMP Assistant tool;
- Advising on issues related to research data storage and backup;
- Facilitating data sharing--whether by consulting on prospective discipline-specific data repositories or assisting with data deposit to general repositories such as McMaster Dataverse and the Federated Research Data Repository.
- Providing guidance on creating data documentation and metadata;

Learn more at: rdm.mcmaster.ca



Certificate Programs

The Sherman Centre for Digital Scholarship Certificate of Attendance

The Sherman Centre's certificate program recognizes attendance at our workshops. It complements degree training, supports the development of critical competencies in data analysis, research data management, and digital scholarship, and formalizes core skills fostered by our workshops.

Participants are invited to attend seven workshops and receive a certificate of attendance. To verify your participation in today's workshop, we will provide a code and additional instructions at the end of the session.

You can learn more about the certificate program at scds.ca/certificate-program

The Canadian Certificate for Digital Humanities

This workshop is also eligible for the Canadian Certificate for Digital Humanities. To learn more about the certificate, visit ccdhn.ca. You can also contact local liaison Alexis-Carlota Cochrane at scds@mcmaster.ca



Fall 2024: Upcoming Workshops

Data Analysis Support Hub

October 17: Introduction to R

November 14: Introduction to Data Analysis with SPSS

Research Data Management

October 2: Best Practices for Managing Data in your Research

October 4: Data Management Plan Bootcamp

November 25: Data Management for Ethics

Digital Research

October 16: Establishing and Maintaining Researcher Profiles

November 12: Visualizing Your Research Impact

Do More with Digital Scholarship

October 1-2: Introduction to Digital Scholarship

November 6: Introduction to Typesetting with LaTeX

November 11: Visualizing with Power BI

November 13: Build Your Own Chatbot: Local Applications in Generative AI on your Laptop

Register for Upcoming Workshops: <https://u.mcmaster.ca/scds-workshops>

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Learning Objectives

By the end of this workshop, you will:

- Identify a strong data management plan compared to a weak response, section by section.
- Produce a solid outline of your own DMP.

Who are we?

Research Data Management Specialists

Isaac Pratt, PhD

My background is in **Biological Anthropology, Medical Imaging, and Human Anatomy.**

I have a PhD in **Anatomy & Cell Biology** from the University of Saskatchewan.

Danica Evering, MA

My background is in **social practice art, community-based research, Communication Studies.**

I have an MA in **Media Studies** from Concordia University.

Outline

-  Goal Setting + Introductions [20 mins]
-  Data Management Plans (DMPs) Overview [15 mins]
-  Working Session [5 mins intro, 20 mins work time]
 - Responsibility – Ethical, legal, and commercial
 - Data Collection – Describe sources and formats
 - Documentation – Make data understandable and reproducible
 - Active Data Management – Store, secure, and back up data
 - Long-Term Data Management – Preservation, discovery, accessibility
-  Next Steps – Sharing, Review, Use [15 mins]

Who are you? *Hands up if you
are...a faculty member? On a
team as research staff? A
postdoc? A graduate student?
Some other role?*

What's your goal for today?
*Hands up if you are...creating a
DMP in preparation for a grant?
To streamline lab practices? To
organize your graduate research?
Some other reason?*

Introduce yourself to your table. Give a short intro to the research project you're making a DMP for today, and any concerns or questions you have had so far.

DMP Assistant

- A web-based, bilingual data management planning tool
- Available to all researchers in Canada
- Walks you through relevant questions for data management.
- Exportable data management plans
- Send to RDM Services for review!
- Access at dmp-pgd.ca/plans



The logo consists of four yellow circles arranged in a 2x2 grid. The top row contains the letters 'D' and 'M' in white. The bottom row contains 'P' and 'G' in white. In the center of the grid is the word 'ASSISTANT' in a bold, black, sans-serif font, enclosed in a thin yellow horizontal bar. Below the grid is a dark horizontal bar containing the text 'Contributors', 'Plan overview', 'Write Plan', 'Research Outputs', 'Share', and 'Request fe...'.

Alliance Simplified Template (Funding Application Stage)

This plan is based on the "Alliance Simplified Template (Funding Application Stage)" template provided by Portage and Main.

This data management plan (DMP) template was collaboratively developed by the Digital Research Alliance of Canada and the Data Management and Preservation Education Group (DMPEG). The template has been designed specifically to support researchers in meeting DMP requirements at the funding application stage.

Given the purpose of this DMP template, it includes questions and guidance that are deemed most relevant at the funding application stage. It is intended to serve as a starting point, and a more detailed DMP may be required to optimally support research projects moving forward and across the research lifecycle.

Template version 0, published on May 16, 2024

Instructions

Introductory Guidance

- Introductory Guidance

Plan Questions

- *What considerations will you take into account with respect to ethical, legal, or commercial issues?*

Describe any applicable ethical, legal, or commercial considerations related to your project and data. This includes, but is not limited to, issues related to privacy, consent, data protection, intellectual property rights, cultural communities and knowledges, human subjects, legal and commercial considerations/agreements, partnerships, and collaborations associated with it.

Data Management Plans:

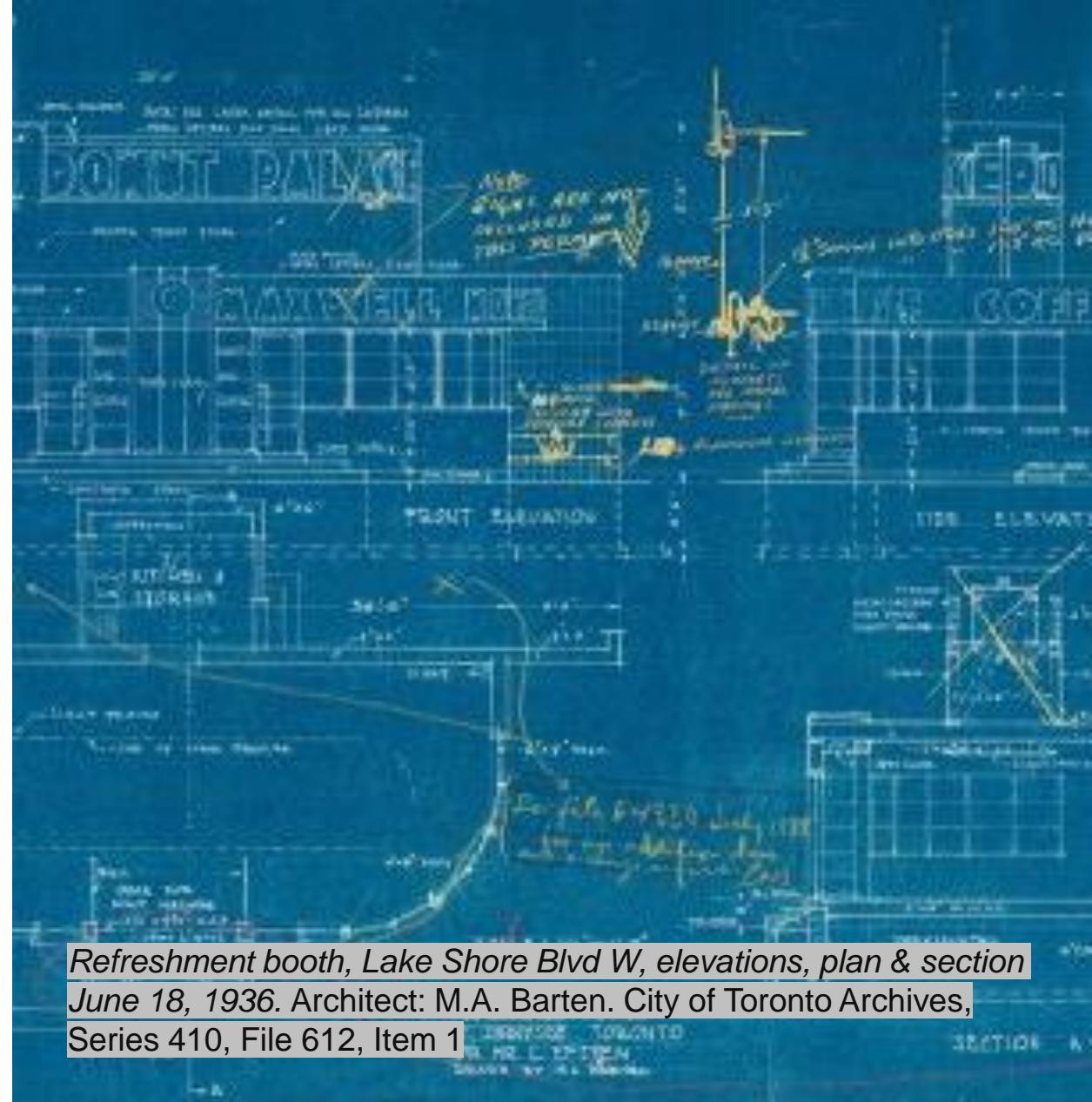
Set up a system for best practices for your project.

A Data Management Plan (DMP) is a **living document** describing your plan for how you will create, store, organize, document, secure, preserve, and share your research data.

- DMPs are meant to help you **articulate your plans for managing data**; *they are not compel researchers to manage data differently.*
- DMPs outline how you will manage data both **during** the active phases of your research and **after** the completion of the research project.

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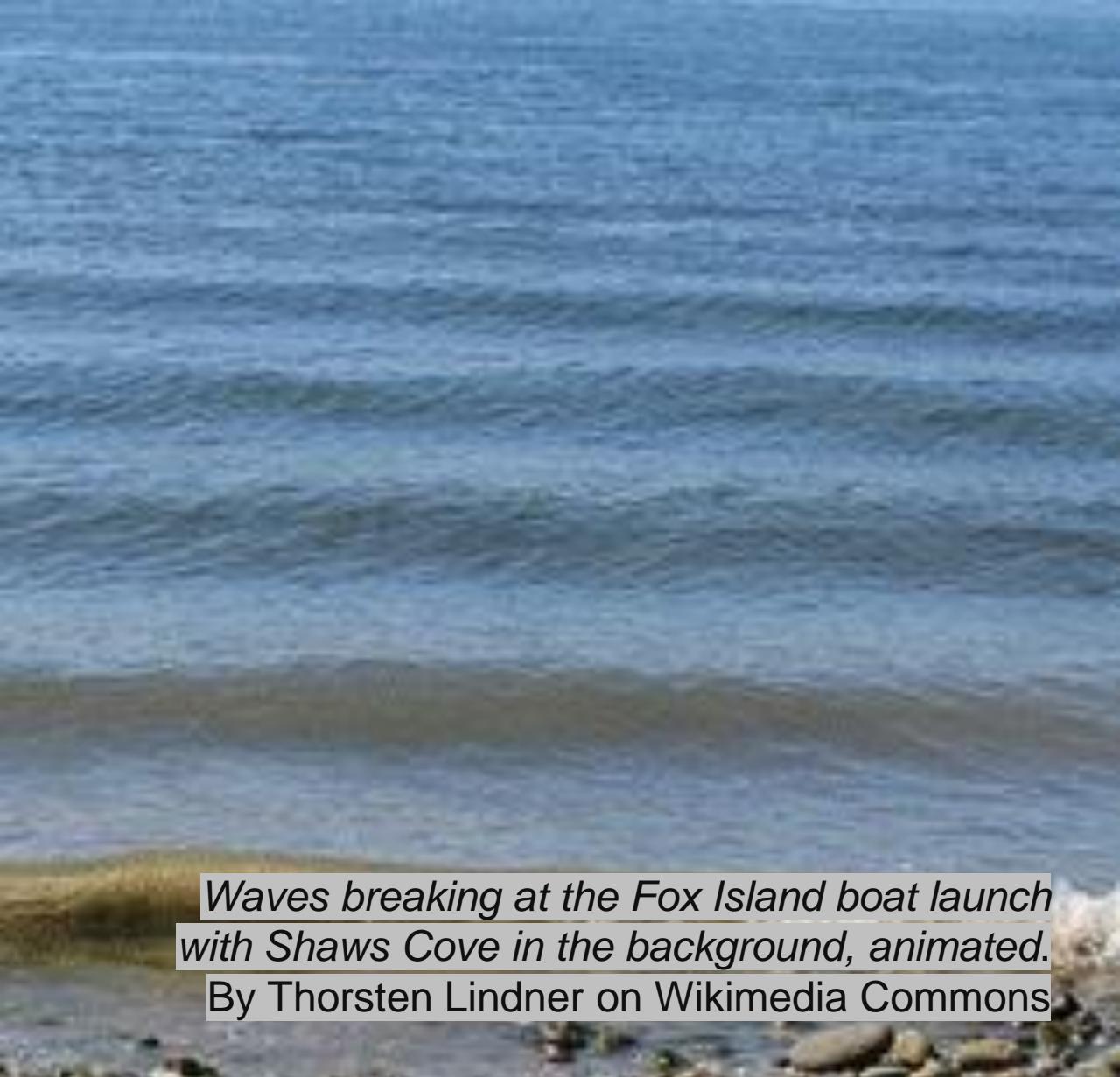
Photo by National Cancer Institute
on Unsplash.

DMPs support **collaboration** within your lab or research team.

- Engage your research team, partners, and collaborators in an **ongoing conversation** about how to best manage research data.
- Implement consistent data practices for a lab.
- Set up storage and security systems, with timelines for backups, transfers, and updates.
- Write out responsibility charts and contingency plans for unexpected events – illness, moving universities, ransomware attack.

Data Management Plans are “living documents”

- A living document reflects the inevitability of change.
- A living document is edited and updated on an ongoing basis.
- Update your DMP as your project evolves and book a time to review it every year
- Approached this way, a DMP can be a very useful research tool!



*Waves breaking at the Fox Island boat launch
with Shaws Cove in the background, animated.
By Thorsten Lindner on Wikimedia Commons*

What to keep in mind while creating a Data Management Plan



Set out consistent strategies for the whole research team on how data will be managed, shared, and archived.



Set the **scope** of your DMP – is it for a single research project? For your whole lab? For an entire research centre?

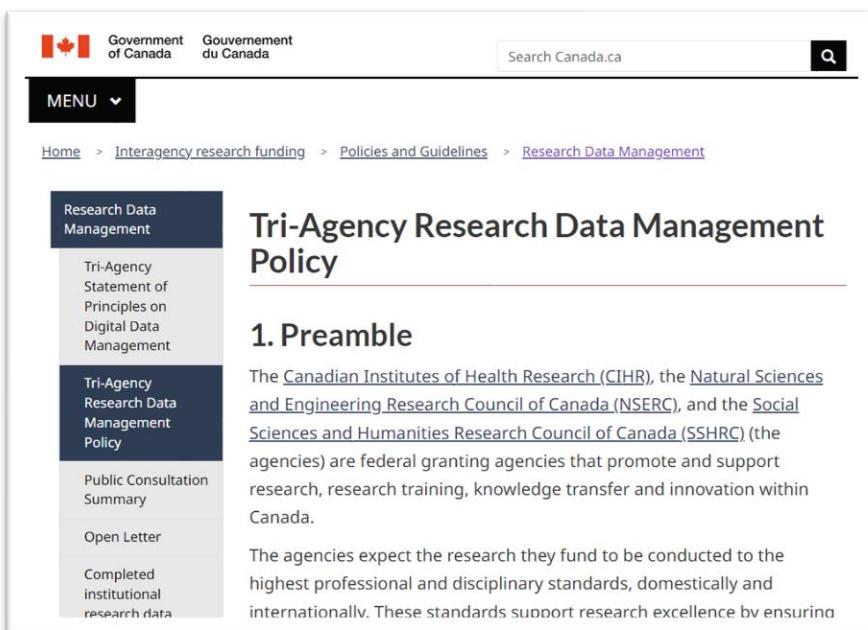


Ensure **quality assurance** and decide how to integrate effective data management practices into your research.

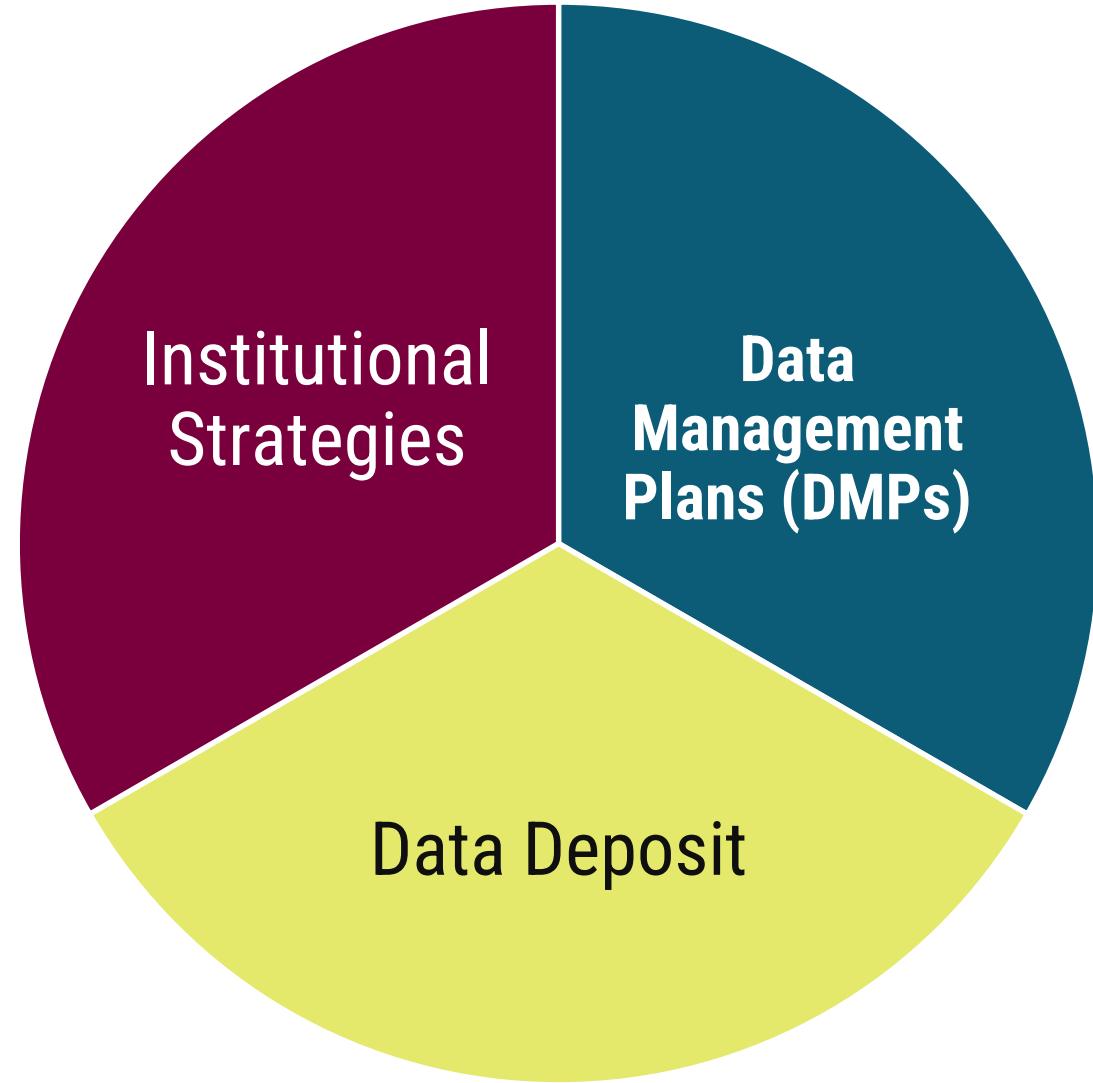


Who is your audience? Write to an educated but unfamiliar reader

Tri-Agency RDM Policy 2021



The screenshot shows the homepage of the Tri-Agency Research Data Management Policy. At the top, there is a navigation bar with the Canadian flag, "Government of Canada / Gouvernement du Canada", a search bar, and a menu icon. Below the navigation bar, the page title is "Tri-Agency Research Data Management Policy". A sidebar on the left contains links to "Research Data Management", "Tri-Agency Statement of Principles on Digital Data Management", "Tri-Agency Research Data Management Policy", "Public Consultation Summary", "Open Letter", and "Completed institutional research data". The main content area includes a "1. Preamble" section where it is stated that the Canadian Institutes of Health Research (CIHR), the Natural Sciences and Engineering Research Council of Canada (NSERC), and the Social Sciences and Humanities Research Council of Canada (SSHRC) are federal granting agencies that promote and support research, research training, knowledge transfer and innovation within Canada.



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“All grant proposals submitted to the agencies should include methodologies that reflect best practices in RDM. **For certain funding opportunities, the agencies will require data management plans (DMPs) to be submitted to the appropriate agency at the time of application**, as outlined in the call for proposals; in these cases, the DMPs will be considered in the adjudication process.

Innovation, Science and Economic Development Canada. “Tri-Agency Research Data Management Policy.” Government of Canada. Innovation, Science and Economic Development Canada, March 15, 2021. <https://science.gc.ca/site/science/en/interagency-research-funding/policies-and-guidelines/research-data-management/tri-agency-research-data-management-policy>

Tri-Agency Data Management Plan Requirements:

Grants that have recently rolled out DMP requirements:

Canadian Institutes of Health Research (CIHR)

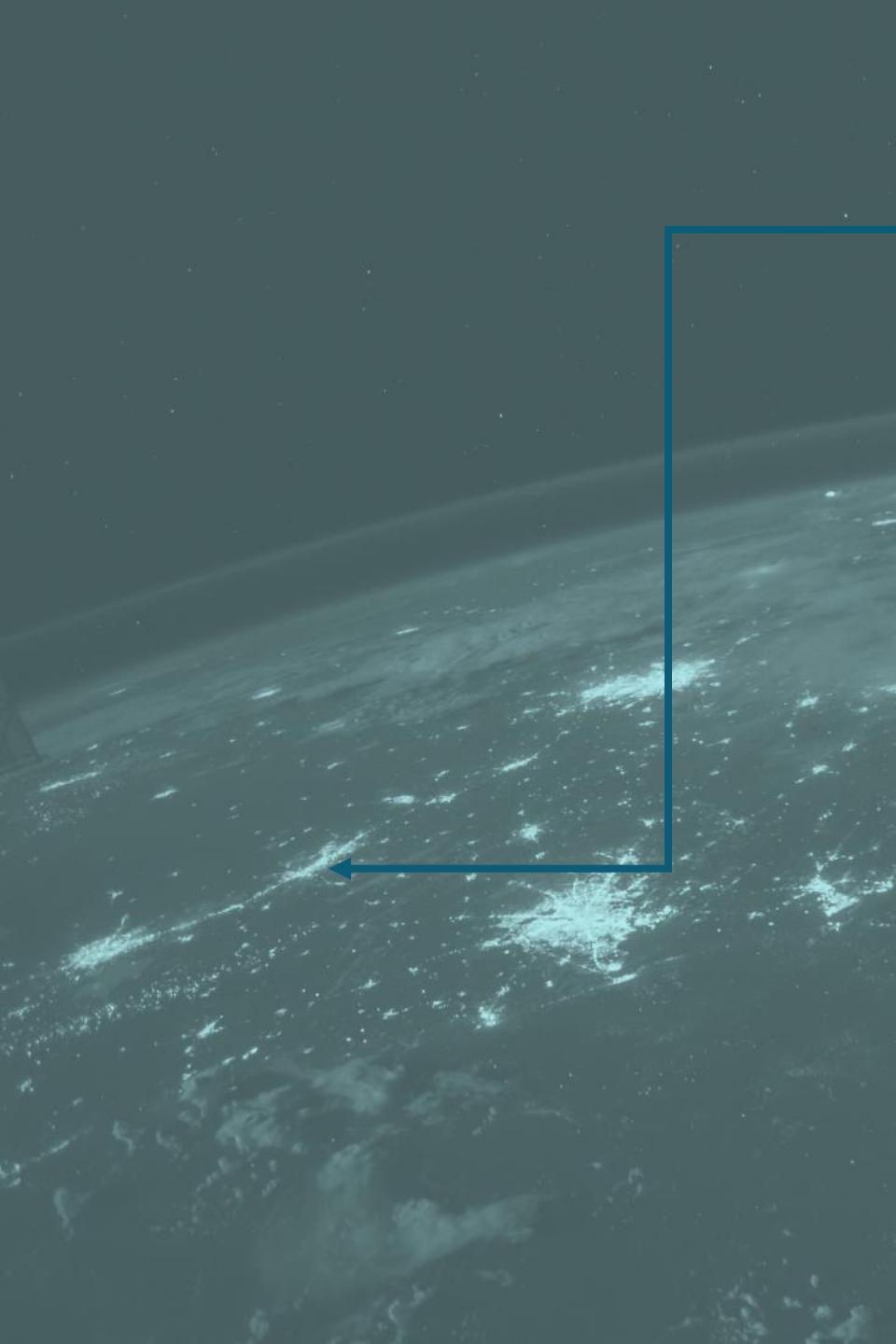
- Network Grants in Skin Health and Muscular Dystrophy
- Team Grant: Strengthening the Health Workforce for System Transformation
- Operating Grant: Addressing Infectious and Congenital Syphilis in Canada

Natural Sciences and Engineering Research Council of Canada (NSERC)

- Subatomic Physics Discovery Grants - Individual and Project

Social Sciences and Humanities Research Council of Canada (SSHRC)

- Partnership Grants Stage 2



Data Management Plans are a **global** practice.

- Most UK & EU funders, Wellcome Trust
- Other Canadian funders, such as the International Development Research Centre
- United States - National Science Foundation (NSF) Grants
- United States - National Institutes of Health (NIH) released their Data Management and Sharing Policy—requiring a **Data Management and Sharing Plan (DMSP)**

Funder Research Data Management Links:

- [Tri-Agency RDM Policy](#)
- [Tri-Agency Funding opportunities requiring data management plans](#)
- [Tri-Agency Research Data Management Policy - Frequently Asked Questions](#)
- [SSHRC Guide to preparing a data management plan](#)
- [NIH Data Management & Sharing Policy Overview](#)

McMaster DMP Database

- DMPs can vary across disciplines, methodologies, and data types.
- Over 450+ example DMPs from resources across the world.
- Search by field, funder, or selected DMPs for each McMaster department
- Submit your DMP for other researchers!
- Access at rdm.mcmaster.ca/dmps

Filters: All Fields All Locations All Funders Clear

Displaying 1 - 30 of 464

2021 Redux Survey of Visible Minority Librarians of Canada Original Source
Wilfrid Laurier University
This DMP aims to collect survey data in order to examine the changes in the library landscape with regards to visible minority librarians. This will help the Visible Minority Librarians of Canada (VIMLoC) Network to empower librarians in this group regarding their current positions, and any future positions revolving around leadership, mentorship, and networking.

Academic Nursing Librarians Original Source
University of British Columbia
This DMP aims to collect interviews, videos, transcripts, and word documents. This data will be used for the purpose of interviewing nursing librarians from CARL to understand what they learned from COVID-19 and their thoughts about academic support post-pandemic.

Accent, Space and Place in US Country Music, English Choral Music and British Indie Rock Original Source
Newcastle University
This DMP predicts to collect spectrograms, and formant frequencies. This data will be used in the aim to understand how singers' accent and pronunciation contributes to the ways their music is received and understood.

Accumbal adaptations that contribute to weight regain after weight loss Original Source
Washington University in St. Louis; Working Group on NIH DMSP Guidance
This DMP aims to collect data from obese mice to investigate how the nucleus accumbens, a region in the brain changes as individuals gain and lose weight.

ACDM Data Management Plan Template Original Source
Association for Clinical Data Management (ACDM)
This DMP was created for the Association of Clinical Data Managers, and aims to provide a template and outline for use.

Selected examples for McMaster Departments
Accounting and Financial Management Services (5)
Anaesthesia (10)
Anthropology (11)
Biochemistry & Biomedical Sciences (22)
Biology (17)
Biomedical Engineering (12)
Chemical Engineering (8)
Chemistry & Chemical Biology (9)
Civil Engineering (9)
Classics (3)
Communication Studies & Media Arts (16)
Computing & Software (5)
DeGroote School of Business (7)
Earth, Environment, and Society (19)
Economics (12)
Electrical & Computer Engineering (8)
Engineering Physics (10)
English & Cultural Studies (12)

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DMP Resources

The Digital Research Alliance of Canada has several DMP exemplars, [available here](#). Our new DMP Database is [available here](#).

We're going to look at the DMP for the *"People, Places, Policies and Prospects: Affordable Rental Housing for Those in Greatest Need"* project.

<https://zenodo.org/record/4062466>

Catherine Leviten-Reid, Jasmine Hoover, Cape Breton University.

Storage, Access, and Backup

Describe where, how, and for how long data will be securely stored during the active phases of the research project. If any data are to be collected through the use of electronic platforms, account for their usage within your data storage description. Include a description of any policies and procedures that will be in place to ensure that data are regularly backed-up.

All data storage and backup procedures will be clearly outlined within the project's data collection policies and procedures which will be developed prior to data collection. These procedures will also indicate where data will be stored throughout the active stages of the project.

As we are collecting survey data using [REDCap](#) software, the raw data will be transferred using a FTP process, and will be stored securely. REDCap servers are locally hosted by WCHRI within the Faculty of Medicine and Dentistry and undergo regular backups (incremental and full). Our virtual research project space has a regularly established scheduled incremental and full backup process in place to ensure no data loss occurs.

Qualitative interviews will be conducted using virtual recordings over Zoom. Upon completion of the interviews the data will be securely transferred within 48 hours to the virtual research project space located on Digital Research Alliance of Canada's cloud platform. Once the interviews are uploaded to the cloud platform they will be permanently deleted from the local computers on which the interviews were saved. This VRE undergoes backups on a regular schedule which include incremental and full backup processes.

Describe how members of the research team will securely access and work with data during the active phases of the research project.

All data will be securely stored on the Digital Research Alliance of Canada's (DRAC) cloud platform and these data will be accessible only by approved researchers, trainees, and project

Today's Template: Alliance Pre-funding Template

- Simplified and condensed DMP Template focusing on the funding application stage
- Developed by the Digital Research Alliance of Canada's Data Management Planning Expert Group (DMPEG)
- In DMP Assistant you will find it called the
McMaster – Funding DMP Template (General Purpose)



What goes in a Data Management Plan?



DMP Assistant



* Indicate the primary research organization

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Which DMP template would you like to use?

McMaster - Funding DMP Template (General Purpose)

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Responsibility

- **What considerations will you take into account with respect to ethical, legal, or commercial issues?**
 - Describe any applicable ethical, legal, or commercial considerations related to your project and data.
 - Does your research involve Indigenous communities and knowledges, human subjects, legal and commercial considerations/agreements, partnerships or data with a high level of risk associated with it?
 - How will you support long-term data stewardship, including data deposit and appropriate sharing? Note - research involving human participants will very often require both informed consent and ethics approval with respect to data sharing.
 - How will data deemed as being sensitive be effectively safeguarded and protected across the lifecycle of your research project?

Ethics & Legal Compliance: Resources

Indigenous Data Management:

- First Nations OCAP Principles - <https://fnigc.ca/ocap-training/>
- CARE Principles for Indigenous Data Governance - <https://www.gida-global.org/care>
- McMaster Indigenous Research Primer - <https://miri.mcmaster.ca/indigenous-research-primer/>
- McMaster: [McMaster Indigenous Research Institute \(MIRI\)](#) and [Indigenous Health Learning Lodge \(IHLL\)](#)

Securing sensitive data:

- Sensitive Data Toolkit for Researchers
 - Glossary of Terms for Sensitive Data <https://zenodo.org/record/4088946>
 - [Human Participant Research Data Risk Matrix](#)
 - [Research Data Management Language for Informed Consent](#)
- McMaster RDM page ‘Secure’ <https://rdm.mcmaster.ca/secure>

Ethics & Legal Compliance

No sensitive data will be shared. Any sensitive data will be stored on secure servers for 5 years.

Research has been approved by the Research Ethics committees at the various institutions involved in the project. Participants are also required to sign the informed consent agreement. By mediating data requests and determining their own terms of access, researchers maintain their rights to the intellectual property.



Data Collection

- **What data will you collect or otherwise bring into your project under this plan? Describe the data that will be collected, generated, and/or acquired.**
 - What types of data do you have? (e.g., image data, textual data, numerical data, audiovisual, etc)
 - What format is your data in?
 - How much data do you have?
 - How will the data will be collected or generated? - if existing data will be used, what is the source of the data and what data will be used?
 - Indicate if your data is, or may be, considered sensitive (e.g., health, administrative and/or clinical records, participant interviews).
 - Indicate if your data involves Indigenous communities and/or knowledges and information.

Data Collection: Resources

- File formats:
 - DataverseNO [Prepare your data: Preferred file formats](https://site.uit.no/dataverseno/deposit/prepare/#what-are-preferred-file-formats)
<https://site.uit.no/dataverseno/deposit/prepare/#what-are-preferred-file-formats>
 - DCN Data Curation Primers on preserving different file formats
<https://datacurationnetwork.org/outputs/data-curation-primers/>
- McMaster RDM page on file naming and organization
 - <https://rdm.mcmaster.ca/organize#tab-file-folder-organization>

Data Collection

Data collected during our projects may include, but are not limited to, those gathered from surveys, in-depth interviews, focus groups, community conversations and arts-based methods such as photography. This means we will potentially generate numeric, audio, image, video and text-based data.

This research project is collecting a variety of types of data. Examples of these include XML and CSV for databases and spreadsheets, JPG or TIFF files for images, MP3 files for sound and TXT for text. Each of these file types are non-proprietary, ensuring ease and flexibility of reuse.



Data Collection

All files will use a conventional **naming standard**. File names should include the **grant name** (in shortened form), a **summary** of the file's content, the **region** and the **date** (in the format YYYY/MM/DD).

An example is the following:

prospects_interviewguide_ON_20200617.

Document **versions** should be named sequentially (with file names ending in v1, v2 etc.).

An example is the following:

prospects_interviewguide_ON_20200617_v1.



Documentation - Make data understandable and reproducible

- **How will you document data for future re-use or validation?**
 - Consider how you will ensure that your data is efficiently documented and captured through out your project (e.g. scripting, tool-generated, user-documented), including by whom, and identify needs, including staffing resources and expertise, that may possibly be built into your application and supported through grant funds.
 - If applicable, specify any data and/or metadata standards that are being used to support your research project.

Documentation & Metadata: Resources

Data Documentation

- McMaster RDM page <https://rdm.mcmaster.ca/organize#tab-file-folder-organization>
- McMaster README Template -
https://rdm.mcmaster.ca/sites/default/files/YYYYMMDD_AUTHOR_DATASET_ReadmeTemplate.txt

Metadata

- Dataverse North Metadata Best Practices Guide v 2.0
<http://hdl.handle.net/2429/73609>
- DCC list of disciplinary metadata standards
<https://www.dcc.ac.uk/guidance/standards/metadata>

Documentation & Metadata

In order for data to be potentially reused, all data files should include a description of **team members** responsible for creating the data, **how** the data were collected, the **code book** (if involving survey data), the **interview guide** (if involving qualitative data), any issues affecting data quality and other pertinent background information which allows the content to be easily understood by others.

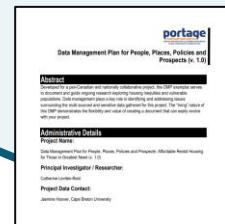
All files containing spreadsheets must include column names which are easily interpreted, even though they will be defined in a code book.



Documentation & Metadata

Team researchers engaged in data analysis using software will create **logs and syntax files** to ensure that the steps leading to the final results are documented and saved. No identifying information of participants may be included in data files. Metadata must also include the grant name and funders (SSHRC and CMHC).

Since these data files will be deposited in the Scholars Portal Cape Breton University Dataverse, the **Data Documentation Initiative (DDI) metadata standard** will be applied.



Active Data Management

- **How will data be stored, accessed and worked with?**
 - Describe where and how data will be stored, accessed, and worked with during the active phases of your research including as applicable:
 - All versions of data (e.g., raw, source, study, analytic, de-identified)
 - All activities (e.g., data collection, processing, analysis, dissemination)
 - All software and platforms
 - Who will have access to what data, including security measures (e.g., Investigators, research staff, collaborators, partners)
 - How data will be backed up to prevent data loss

Storage & Backup

Storage space is anticipated to be approximately **100 GB**. The data will be stored for **5 years locally**, with a permanent copy held in the Scholars Portal Cape Breton University **Dataverse**.

The **3-2-1 backup rule** will be followed for data storage and backup. All team members will upload their files to a cloud-based server located in Canada, to be identified by the project lead. Sensitive files are to be encrypted.

OneDrive is used to store, share, and work with data.



Storage & Backup: Resources

Data Storage:

- McMaster Research Data Storage Finder
<https://u.mcmaster.ca/storagefinder>

Backup:

3

Copies of your data (at least!)

2

Copies are on-hand (easily accessible) on different systems (internal hard drive, cloud storage, etc.)

1

Copy is in another location (“off-site”) from the others with a **trusted** service provider

Example:

- 1 copy stored locally on **hard drive** for analysis
- 1 copy stored on **cloud storage** platform
- 1 copy stored in a **secure campus drive**

Long-Term Data Management - Ensure data are preserved, discoverable, and accessible

- Describe plans for **long-term management** of your data after the active phases of your research have concluded, including data deposit and sharing. Consider and describe as applicable plans for:
 - All versions of data deposited (raw, master, analytic, published)
 - All activities (e.g., curation, preservation, ethical compliance, publishing etc.)
 - All software and platforms (e.g., data repositories)
- Will you **deposit** any versions for discovery, appropriate access, and potential reuse?
- Are there any **responsibilities** to funders, publishers, ethics boards, research participants that impact this?

Depositing Data - Data Repositories

Data Repositories:

- DataCite Repository Finder tool
<https://repositoryfinder.datacite.org/>
- McMaster Dataverse
<https://dataverse.scholarsportal.info/dataverse/mcmaster>
- FRDR <https://www.frdr-dfdr.ca/repo/>
- Data Repository Guidance from *Nature Scientific Data*
<https://www.nature.com/sdata/policies/repositories>

Anonymization and Licensing

Data Anonymization:

- Portage Network De-Identification Guidance
<https://zenodo.org/record/4270551>
- RDM – Publish – Data Anonymization:
<https://rdm.mcmaster.ca/publish#tab-data-anonymization>
 - Recommended tools and training

Data Licenses:

- [Creative Commons \(CC\)](#)
- [Open Data Commons](#)
- [More about licensing](#)

Centre for Longitudinal Study on Aging Publication and Promotion Policy

Canadian Longitudinal Study on Aging (CLSA), Publication and Promotion Policy for CLSA Approved Users, November 29, 2022, Accessed April 17, 2024, <https://www.clsaelcv.ca/doc/2579>

2.5 Data Availability Statement

Some journals stipulate that the data used for the analyses be deposited with the journal or otherwise be made available to replicate the findings. The CLSA's privacy and confidentiality requirements do not permit Approved Users to share CLSA data beyond their research team, so this requirement cannot be met. Approved Users should communicate this to the journal by providing the following statement:

"Data are available from the Canadian Longitudinal Study on Aging (www.clsaelcv.ca) for researchers who meet the criteria for access to de-identified CLSA data."

Data Availability: The CLSA data used in our study is third-party data. The CLSA data are available from the Canadian Longitudinal Study on Aging (www.clsaelcv.ca) for researchers who meet the criteria for access to de-identified CLSA data. We had no special access privileges to the data and other researchers will be able to access the data in the same manner as the authors. The specific data application requirements and process can be found at <https://www.clsaelcv.ca/data-access/data-access-application-process>. Please email access@clsaelcv.ca to request a Magnolia user account and other information on CLSA data application.

Zhang W, Sun H (2020) Formal and informal care received by middle-aged and older adults with chronic conditions in Canada: CLSA data. PLoS ONE 15(7): e0235774. <https://doi.org/10.1371/journal.pone.0235774>

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Sharing & Re-use

The analyzed, de-identified data set or datasets will be put under **mediated access** in the Scholars Portal Cape Breton University **Dataverse**. Users will be required to request access to the data for reuse.

Requests will be **evaluated by the PI** and/or a backup member identified on the research team. Terms of access and use will be determined by the PI in consultation with the research team to ensure appropriate use of the data.

Data deposited in Dataverse will be assigned a **Digital Object Identifier (DOI)**, a unique and persistent code that can be used by others to locate and access these data. **Metadata is harvested by the FRDR**, a Canada wide research repository, where data can be discovered, and then shared, at a national level. We will also link our dataset to the **publications** arising from this study.



Reflection: did you learn anything surprising today?
Was there something you didn't realize you didn't know about your data?

Next steps

Request feedback

- If you've finished your DMP, you can submit it to RDM Services for a review by hitting the Request feedback button in DMP Assistant or emailing a copy to rdm@mcmaster.ca
- If you have more questions, reach out to us by email or [set up an appointment](#)

DMPs are living documents

- Set up a review schedule for your new data management plan
- If it's for a funding application, how will you fill out the details for a more in-depth research plan
- Share it and talk about it with your students, supervisors, partners, and collaborators!





**CODE:
BUTTONBUSH**

**Tell us what you think |
Verify your attendance**

**Provide feedback on this
session and verify your
participation at
u.mcmaster.ca/post-event**

Image by Jim Evans, CC BY-SA 4.0 via Wikimedia Commons.
https://commons.wikimedia.org/wiki/File:Buttonbush--Cephalanthus_occidentalis.jpg

scds.ca
scds@mcmaster.ca

Research Data Management Links

Send RDM Services an email:

rdm@mcmaster.ca

Review resources on our webpage:

<https://rdm.mcmaster.ca>

Join our Community of Practice:

<https://u.mcmaster.ca/rdm-community>

Make an appointment:

<https://u.mcmaster.ca/rdm-appointments>

SCDS Links

Send SCDS an Email:

scds@mcmaster.ca

Subscribe to our Newsletter:

<https://u.mcmaster.ca/sign-up>

Register for a Workshop:

<https://u.mcmaster.ca/scds-workshops>

Schedule a Consultation:

<https://libcal.mcmaster.ca/appointments>

