

# Canadian Developments in Open Scholarship

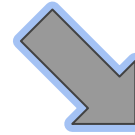
Faculty of Science Update, 19-Oct, 2017

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Jay Brodeur  
McMaster University Library



# Open Scholarship



Open Access



Open Data



Open Educational  
Resources

# Open Access

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*“Open Access (OA) literature is digital, online, free of charge,  
and free of most copyright and licensing restrictions”*

- [Peter Suber](#)

# Tri-Agency Open Access Policy on Publications



**Government  
of Canada**

**Gouvernement  
du Canada**



Home → [Collaboration between Federal Research Funding Organizations](#) → [Policies and Guidelines](#)  
→ [Open Access](#)

## Tri-Agency Open Access Policy on Publications

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### 1. Preamble

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 \(SSHRC\)](#) (“the Agencies”) are federal granting agencies that promote and support research, research training and innovation within Canada. As publicly funded organizations, the Agencies have a

[http://www.science.gc.ca/eic/site/063.nsf/eng/h\\_F6765465.html](http://www.science.gc.ca/eic/site/063.nsf/eng/h_F6765465.html)

*“Grant recipients are required to ensure that any peer-reviewed journal publications arising from Agency-supported research are freely accessible within 12 months of publication”*

# Open Access: Two venues for publishing

## OA Journals (“Gold OA”)

- ✧ Immediate OA provided by a publisher (processing fees may apply)
- ✧ Directory of Open Access Journals ([doaj.org](https://doaj.org))
- ✧ Fees are eligible [Use of Grant Funds](#)

## OA Repositories (“Green OA”)

- ✧ Preprints and/or Postprints (before or after copy-editing)
- ✧ Directory of Open Access Repositories ([opendoar.org](https://opendoar.org))
- ✧ [SHERPA/RoMEO](#): Database of publisher copyright policies

openaccess.mcmaster.ca

- ✧ OA information for researchers
- ✧ Customized for McMaster
- ✧ Links to the Library's [Open Access Interactive Tool](#)

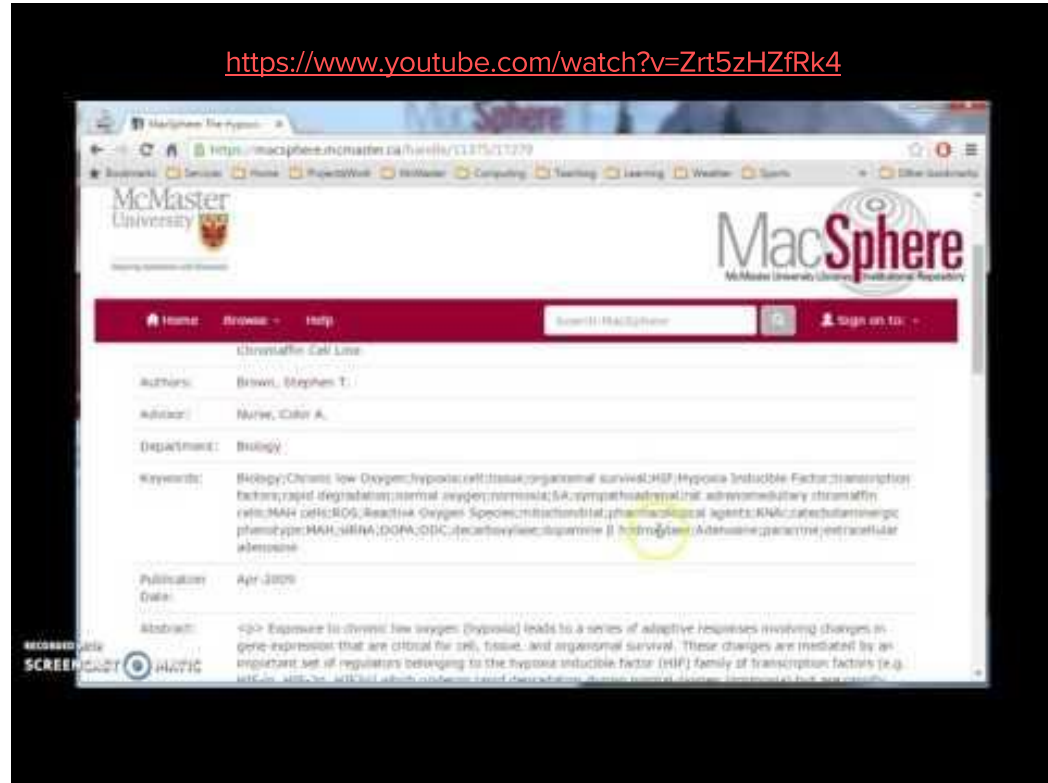
[https://www.youtube.com/watch?v=BPSq\\_zM5W80](https://www.youtube.com/watch?v=BPSq_zM5W80)



# macsphere.mcmaster.ca

- ✧ McMaster's institutional repository (IR)
- ✧ Preservation and sharing for scholarly output at McMaster
- ✧ Accepts many formats and outputs (theses, journal articles, data, figures, slideshows, etc.)

<https://www.youtube.com/watch?v=Zrt5zHZfRk4>



# Open Data / Research Data Management

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“Open data and content can be freely used, modified, and shared by anyone for any purpose”

- [Open Knowledge International](#)

Research Data Management is the active organization & maintenance of data throughout the research cycle to ensure data security, accessibility, usability, and integrity

# Requirements and Expectations

## Funding Agencies and Governments



## Publishers and Research Communities



## Institutions



### Partnerships and Projects

- Meet Canada's scientists and professionals
- Canadian High Arctic Research Station
- Northern Contaminants Program
- Canada's Extended Continental Shelf Program
- Health Canada: Centre for Vaccine Evaluation
- Science and Technology Data
- Research Funding Collaboration
  - Co-operative Funding Programs
  - Policies and Guidelines
    - Open Access
    - Selecting the Appropriate Federal Granting Agency
    - Research Ethics
    - Responsible Conduct of Research
    - Public Communications

## Tri-Agency Statement of Principles on Digital Data Management

### 1. Preamble

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 \(SSHRC\)](#) (the agencies) are federal granting agencies that promote and support research, research training, knowledge transfer and innovation within Canada.

As publicly funded organizations, the agencies are strong advocates for making the results of the research they fund as accessible as possible. In promoting access to research results, they aspire to advance knowledge, avoid research duplication and encourage reuse, maximize research benefits to Canadians and showcase the accomplishments of Canadian researchers. These aspirations align with the Government of Canada's commitment to open science, as described in [Seizing Canada's Moment: Moving Forward in Science, Technology and Innovation](#)(2014).

Research data include observations about the world that are used as primary sources to support scientific and technical inquiry, scholarship and research-creation, and as evidence in the research process.<sup>1</sup> Research data are gathered through a variety of methods, including experimentation, analysis, sampling and repurposing of existing data. They are increasingly produced or translated into digital formats. When properly managed and responsibly shared, these digital resources enable researchers to ask new questions, pursue novel research programs, test alternative hypotheses, deploy innovative methodologies and collaborate across geographic and disciplinary boundaries. The ability to store, access, reuse and build upon digital research data has become critical to the advancement of science and scholarship, supports innovative solutions to economic and social challenges, and holds tremendous potential for Canada's productivity, competitiveness and quality of life.

Tri-Agency Statement of Principles on Digital Data Management

<http://www.science.gc.ca/default.asp?lang=En&n=83F7624E-1>

# Tri-Agency Statement of Principles on Digital Data Management: **Expectations**

- Data management planning
- Constraints and obligations
- Adherence to standards
- Collection and storage
- Metadata
- Preservation, retention and sharing
- Timeliness
- Acknowledgement and citation
- Efficient and cost-effective

# Tri-Agency Statement of Principles on Digital Data Management: **Expectations**

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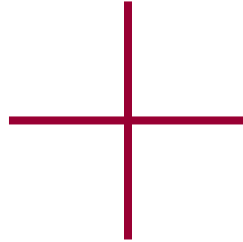
# Tri-Agency Statement of Principles on Digital Data Management: **Responsibilities**

## Researchers

- incorporating best practices
- developing DMPs
- adhering to policies and standards

## Research Communities

- developing & promoting standards
- fostering excellence
- selecting repositories



## Research Institutions

- supporting best practices
- providing access to resources
- creating guidance and policies

## Research Funders

- developing policies & guidance
- promoting data management
- providing peer reviewers

# Recent Developments / Likely Next Steps

- ✧ Tri-Agency draft data management policy in development
- ✧ Will be released for consultation; feedback informs policy

Proposed policy — 3 possible requirements:

1. Institutions: Institutional Strategy
2. Researchers: Data Management Plans
3. Researchers: Data Deposit

- ✧ Phased and incremental implementation

[Link to M. Lucas' slides — Portage Network Event](#) (18-Sept, 2017)

# RDM capacity development at various scales

## Institutional



## Provincial / National

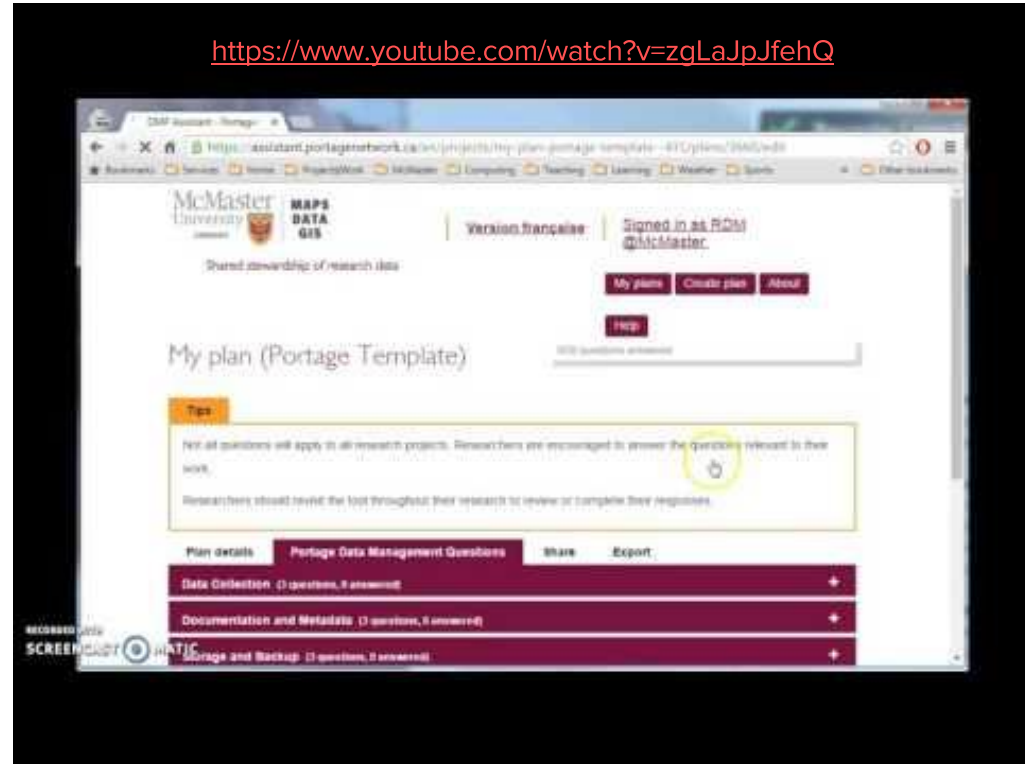




# Portage DMP Assistant

- ✧ A web-based, bilingual data management planning tool.
- ✧ Available to all researchers in Canada.
- ✧ A guide for best practices in data stewardship.
- ✧ Exportable data management plans.

<https://www.youtube.com/watch?v=zgLaJpJfehQ>



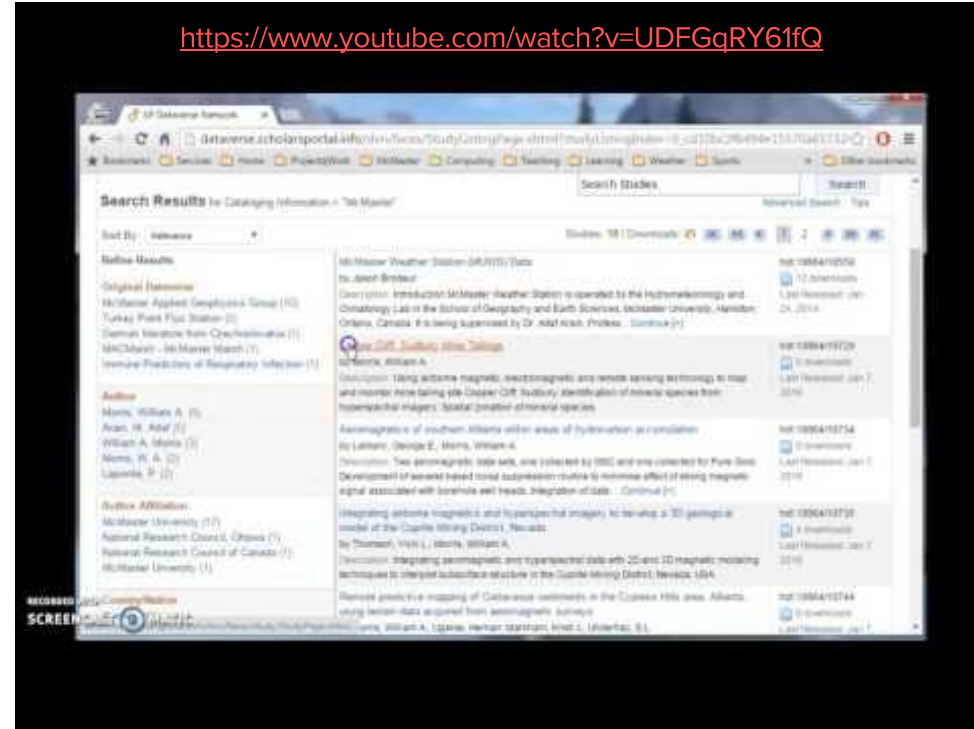
<https://assistant.portagenetwork.ca/>

# Scholars Portal Dataverse



- ✧ A data repository for researchers at Ontario's universities.
- ✧ An online platform to share, preserve, cite, explore and analyze research data.
- ✧ Allows researchers to control how they share their data.
- ✧ Supports data DOI registration through Datacite Canada.

<https://www.youtube.com/watch?v=UDFGqRY61fQ>



<http://dataverse.scholarsportal.info>

[re3data.org](https://re3data.org)

✧ Registry of research data repositories

The screenshot shows the re3data.org website interface. At the top right is the McMaster University LIBRARY logo. The main header features the re3data.org logo and the text 'REGISTRY OF RESEARCH DATA REPOSITORIES'. Below this is a navigation bar with links: Home, Search, Browse, Suggest, FAQ, About, Schema, API, Contact, and Legal notice / Impressum. The main content area is titled 'Browse by subject' and includes two tabs: 'Graphical' (selected) and 'Text'. A green instruction box states: 'click to zoom into subjects or to select a bottommost subject in the hierarchy as filter for the re3data search page ctrl + click on a top subject to select it as filter'. The central feature is a large sunburst chart representing a hierarchical classification of research subjects. The innermost ring contains major categories: Engineering and Technology, Humanities, Social and Behavioral Sciences, Biology, Agriculture, Veterinary, and Natural Sciences. The middle ring further divides these into sub-fields like Mechanical and Industrial Engineering, Physics, Chemistry, and various disciplines within the Humanities and Social Sciences. The outermost ring provides an even more granular level of detail, listing specific sub-disciplines within each major category.

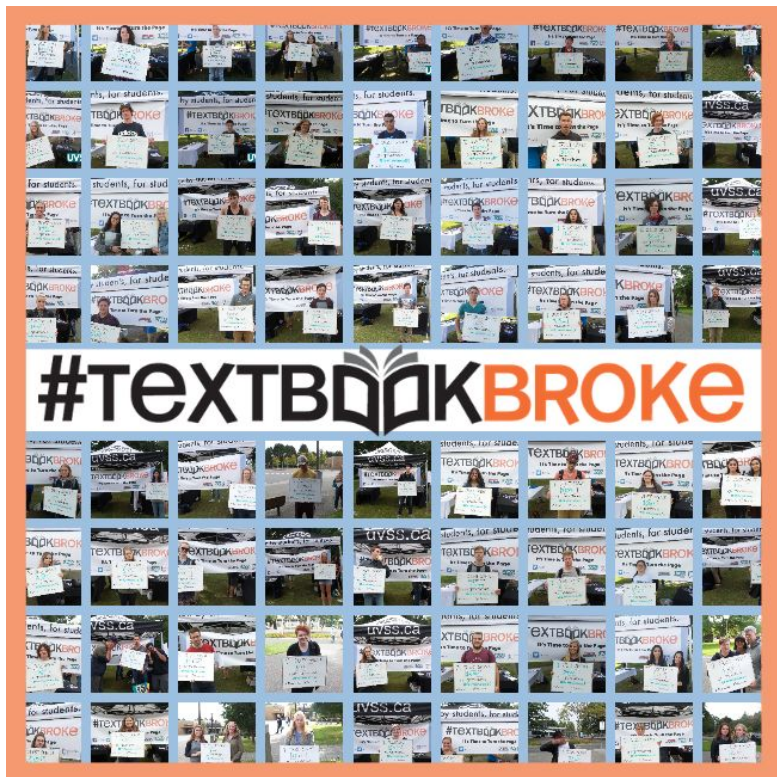
# Open Educational Resources

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“Open Educational Resources are teaching, learning, and research resources that are free of cost and access barriers, and which also carry legal permission for open use..”

- [SPARC](#)

# #textbookbroke



TV RADIO NEWS SPORTS MUSIC LIFE ARTS CANADA 2017 LOCAL MORE

## CBCnews | British Columbia

Home Opinion World **Canada** Politics Business Health Entertainment Technology

Canada BC

### B.C. students say they are #textbookbroke

Average textbook bill for students surveyed at UVic bookstore was \$500

By Megan Thomas, CBC News | Posted: Sep 07, 2016 7:30 PM PT | Last Updated: Sep 07, 2016 7:30 PM PT

A student at UVic is shown holding a sign that reads "I JUST SPENT \$613.77 ON TEXTBOOKS! #textbookbroke BC @theuvics". She is standing in front of a large banner that says "#TEXTBOOK BROKE It's time to Turn the Page". The banner also features logos for "simon fraser student society", "UVSS", and "ams". The student has a concerned expression on her face.

A student at UVic frowns over the cost of her textbooks. (UVSS/Facebook)

## Open Access Week | October 23-29, 2017



- INCREASE ACCESS TO KNOWLEDGE
- FACILITATE COLLABORATION
- RAISE YOUR RESEARCH VISIBILITY
- OTHER:

McMaster Open Access Week Schedule:

<https://library.mcmaster.ca/sites/default/files/OA-Week-2017-Full-Schedule.pdf>

# OA Week: Keynote Presentation + Q&A

## Why Open? Open Access and Open Education at McMaster

**Nick Shockey**, Director of Programs & Engagement, SPARC

**Brady Yano**, Assistant Director of Open Education, SPARC

MUSC CIBC Hall, Rm 319, 2:30 pm - 3:30 pm



McMaster Open Access Week Schedule:

<https://library.mcmaster.ca/sites/default/files/OA-Week-2017-Full-Schedule.pdf>

# Other “Open” Resources

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# What is an ORCID iD?

ORCID = Open Researcher and Contributor ID

- ✦ Unique identifier for use in scholarship
- ✦ Transparent system for linking researchers to:
  - activities & outputs;
  - individuals; and,
  - Organizations.
- ✦ National adoption underway in UK, AUS, NZ
- ✦ > 50 000 ORCID iDs registered from .ca domain



# What does an ORCID iD do?

- ✧ Disambiguates researchers
- ✧ Enables connection outside of the institution
- ✧ Simplifies/automates data entry processes
- ✧ Improves data quality and reuse (machine-actionable data)
- ✧ Improves online presence of researchers' products

# ORCID-CA

ORCID-CA is the ORCID Consortium in Canada, facilitated by ORCID and the Canadian Research Knowledge Network (CRKN)

## Benefits:

- ✧ Premium ORCID membership at lower cost
- ✧ Access to Premium Member API = potential to integrate with University systems and workflows
- ✧ Dedicates Member Services Coordinator

# Affiliating an ORCID iD with McMaster

Current: Add McMaster University in **Employment** Section

## Step 1

Sign up / Sign in at  
[orcid.org](https://orcid.org)

In Bio, select:  
+Add employment  
+Add manually

The screenshot shows the ORCID iD profile page for Jason Brodeur. The page is titled "Biography" and includes a search bar at the top. The navigation menu includes "FOR RESEARCHERS", "FOR ORGANIZATIONS", "ABOUT", "HELP", and "SIGN OUT". The user's name "Jason Brodeur" is displayed in green. Below the name, the ORCID ID is shown as "sandbox.orcid.org/0000-0001-8271-9163". The Biography section is divided into four tabs: "Education (0)", "Employment (0)", "Funding (0)", and "Works (0)". Each tab has a "+ Add" button and a "Sort" button. The "Employment (0)" tab is currently selected, and it shows a "+ Add manually" button. The page also includes a "Display your iD on other sites" button, a "Public record print view" button, and a "Get a QR Code for your iD" button.

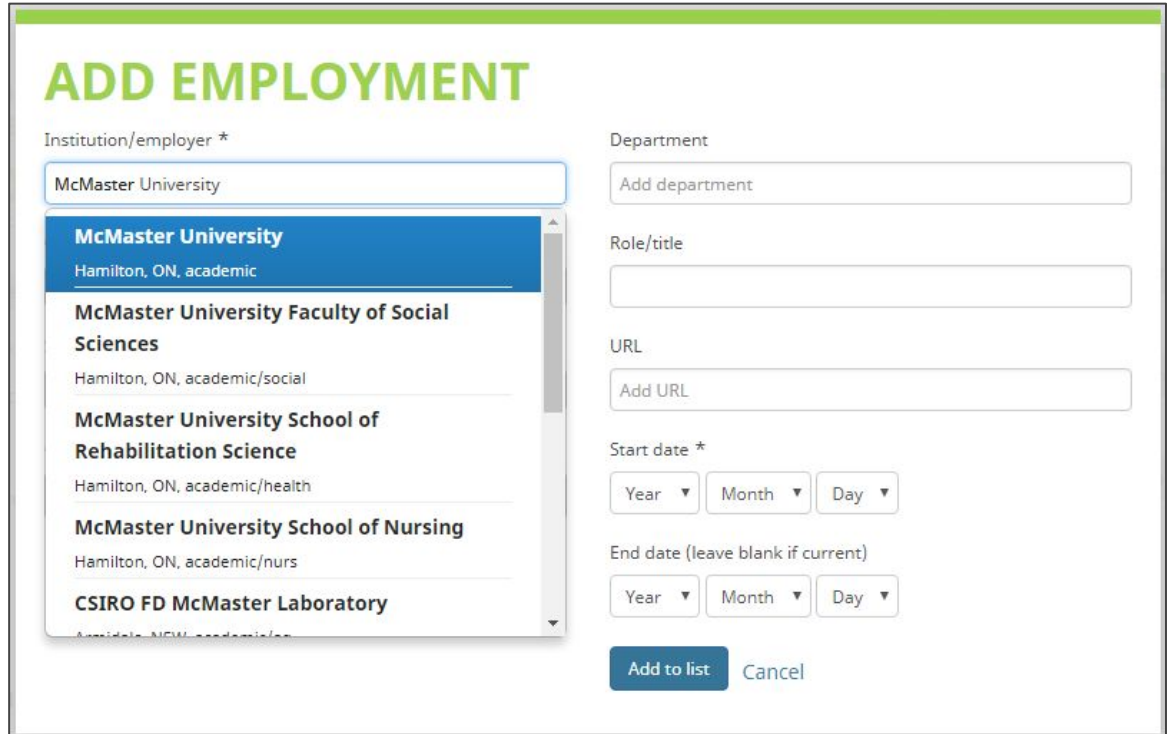
# Affiliating an ORCID iD with McMaster

Current: Add McMaster University in **Employment** Section

## Step 2

Enter 'McMaster' as  
Institution/employer

Select 'McMaster  
University' from  
drop-down list



**ADD EMPLOYMENT**

Institution/employer \*

McMaster University

- McMaster University**  
Hamilton, ON, academic
- McMaster University Faculty of Social Sciences**  
Hamilton, ON, academic/social
- McMaster University School of Rehabilitation Science**  
Hamilton, ON, academic/health
- McMaster University School of Nursing**  
Hamilton, ON, academic/nurs
- CSIRO FD McMaster Laboratory**  
Armidale, NSW, academic/...

Department

Add department

Role/title

URL

Add URL

Start date \*

Year Month Day

End date (leave blank if current)

Year Month Day

Add to list Cancel

# Affiliating an ORCID iD with McMaster

Current: Add McMaster University in ***Employment*** Section

## Step 3

Add remaining  
position information  
(mostly optional)

Click “Add to list”

### ADD EMPLOYMENT

Institution/employer Remove  
McMaster University  
Hamilton (ON), academic

Department  
McMaster University Library

Display Institution/employer \*  
McMaster University

Role/title  
Manager, Maps, Data, GIS

Display city \*  
Hamilton

URL  
Add URL

Display state/region  
ON

Start date \*  
Year ▼ Month ▼ Day ▼

Display country \*  
Canada ▼

End date (leave blank if current)  
Year ▼ Month ▼ Day ▼

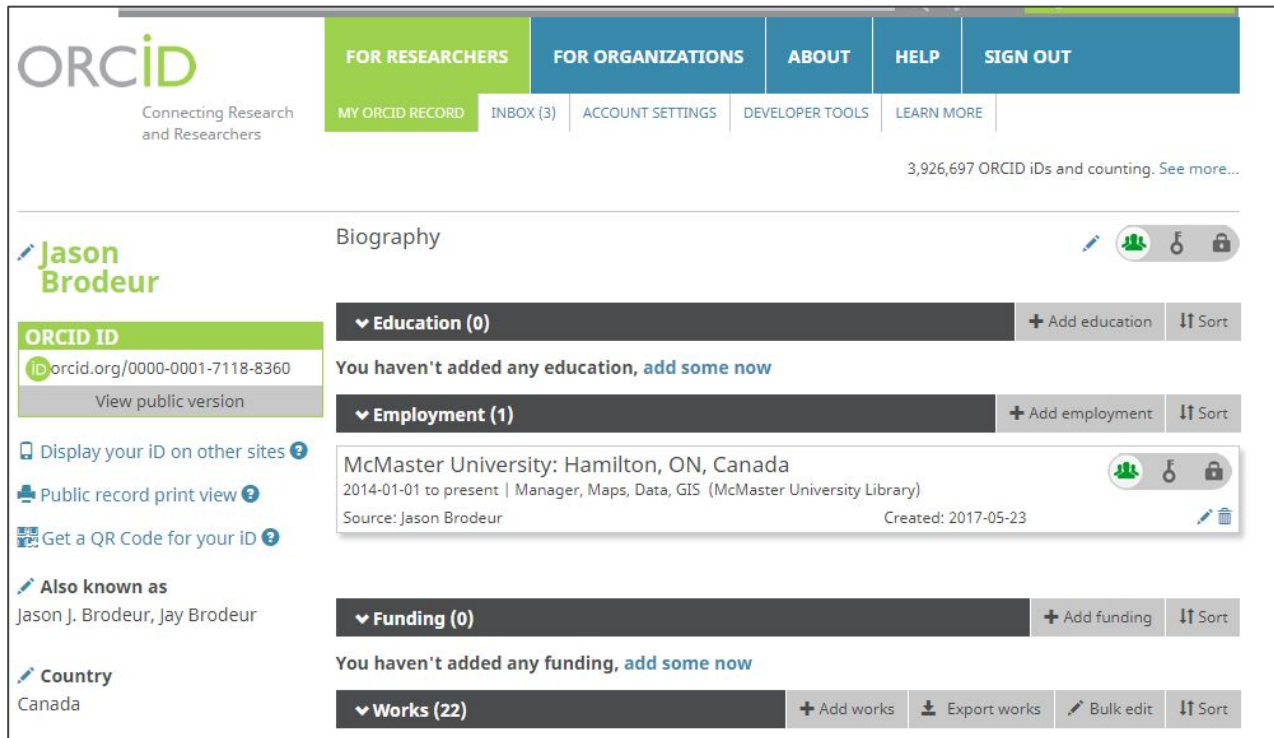
**Add to list** Cancel

# Affiliating an ORCID iD with McMaster

Current: Add McMaster University in **Employment** Section

Profile will now  
show employment

Affiliation  
established



The screenshot shows the ORCID iD profile for Jason Brodeur. The profile is set to public. The Employment section is expanded, showing a new affiliation: McMaster University: Hamilton, ON, Canada, from 2014-01-01 to present, with the role of Manager, Maps, Data, GIS (McMaster University Library). The source is listed as Jason Brodeur and it was created on 2017-05-23. The Education and Funding sections are currently empty. The Works section shows 22 items.

**ORCID iD**  
Connecting Research and Researchers

FOR RESEARCHERS | FOR ORGANIZATIONS | ABOUT | HELP | SIGN OUT

MY ORCID RECORD | INBOX (3) | ACCOUNT SETTINGS | DEVELOPER TOOLS | LEARN MORE

3,926,697 ORCID iDs and counting. See more...

**Jason Brodeur**

**ORCID ID**  
id.orcid.org/0000-0001-7118-8360  
View public version

Display your iD on other sites  
Public record print view  
Get a QR Code for your iD

**Also known as**  
Jason J. Brodeur, Jay Brodeur

**Country**  
Canada

**Biography**

**Education (0)** + Add education | Sort

You haven't added any education, add some now

**Employment (1)** + Add employment | Sort

McMaster University: Hamilton, ON, Canada  
2014-01-01 to present | Manager, Maps, Data, GIS (McMaster University Library)  
Source: Jason Brodeur Created: 2017-05-23

**Funding (0)** + Add funding | Sort

You haven't added any funding, add some now

**Works (22)** + Add works | Export works | Bulk edit | Sort

# Affiliating an ORCID iD with McMaster

Coming Soon:

- ✧ Affiliation can be initiated by the institution through ORCID-CA membership API
- ✧ Researchers will be prompted to accept/reject affiliation with McMaster



# More Information on ORCID and ORCID-CA

## **ORCID:**

Learn more; register at: <https://orcid.org/>

## **ORCID-CA:**

Introductory Webinar: <https://attendee.gotowebinar.com/recording/3169306365980109057>

Webinar slides: <https://goo.gl/Oi70kY>

Joint Statement of Principles: <https://goo.gl/2vb5p0>

## **More information on researcher profiles:**

<http://hsl.mcmaster.libguides.com/impact/profiles>

# Where to find more information

## Open Access & Open Educational Resources:

- ✧ [openaccess.mcmaster.ca](https://openaccess.mcmaster.ca)
- ✧ [macsphere.mcmaster.ca](https://macsphere.mcmaster.ca)
- ✧ Olga Perkovic ([perkovi@mcmaster.ca](mailto:perkovi@mcmaster.ca)):  
Research and Advanced Studies Librarian

## Open Data & Research Data Management

- ✧ [portagenetwork.ca](https://portagenetwork.ca)
- ✧ [library.mcmaster.ca/rdm](https://library.mcmaster.ca/rdm)
- ✧ RDM@Mcmaster ([rdmgmt@mcmaster.ca](mailto:rdmgmt@mcmaster.ca))

# Thank You.

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Jay Brodeur, [brodeujj@mcmaster.ca](mailto:brodeujj@mcmaster.ca)

# Research Data Management (**RDM**) is...

... the **active organization** & maintenance of data

... the **application of best practices** to ensure data security, accessibility, usability, and integrity

... a **set of activities** resulting in self-describing data sets that can be discovered and reused

