

What are **ORCiDs and DOIs** and why do I need them?

Danica Evering, MA and Jeffrey Demaine, MLIS

February 15, 2023





McMaster University is located on the traditional Territories of the Mississauga and Haudenosaunee Nations, and within the lands protected by the “Dish With One Spoon” wampum agreement.

Laslovarga, "Webster Falls in Winter, Waterdown, Hamilton, Ontario, Canada - Spencer Gorge / Webster's Falls Conservation Area," 23 January 2011, Wikimedia Commons - https://commons.wikimedia.org/wiki/File:Waterdawn_Webster_Falls_in_Winter8.jpg

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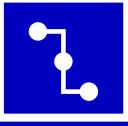
Certificate Program

The Sherman Centre offers a Certificate of Completion that rewards synchronous participation at 7 workshops. We also offer concentrations in Data Analysis and Visualization, Digital Scholarship, and Research Data Management.

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At an unspecified point during the workshop, a code will be read aloud. This is the answer to the third question of the form.

Outline

-  What is Research Data Management (RDM)?
-  Persistent Identifiers (PIPs)
 - Linkrot and research rot - the need for PIDs
 - What are DOIs, ORCiDs, RORs, and other identifiers?
 - What is their role in research and how do I get one?
-  Open Researcher and Contributor IDs – ORCiDs
-  ORCiD Demo and Set Up

What have you used a DOI for?

researching articles publication

ejournal

article search

request ill

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i've never used on
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datasets

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finding an article

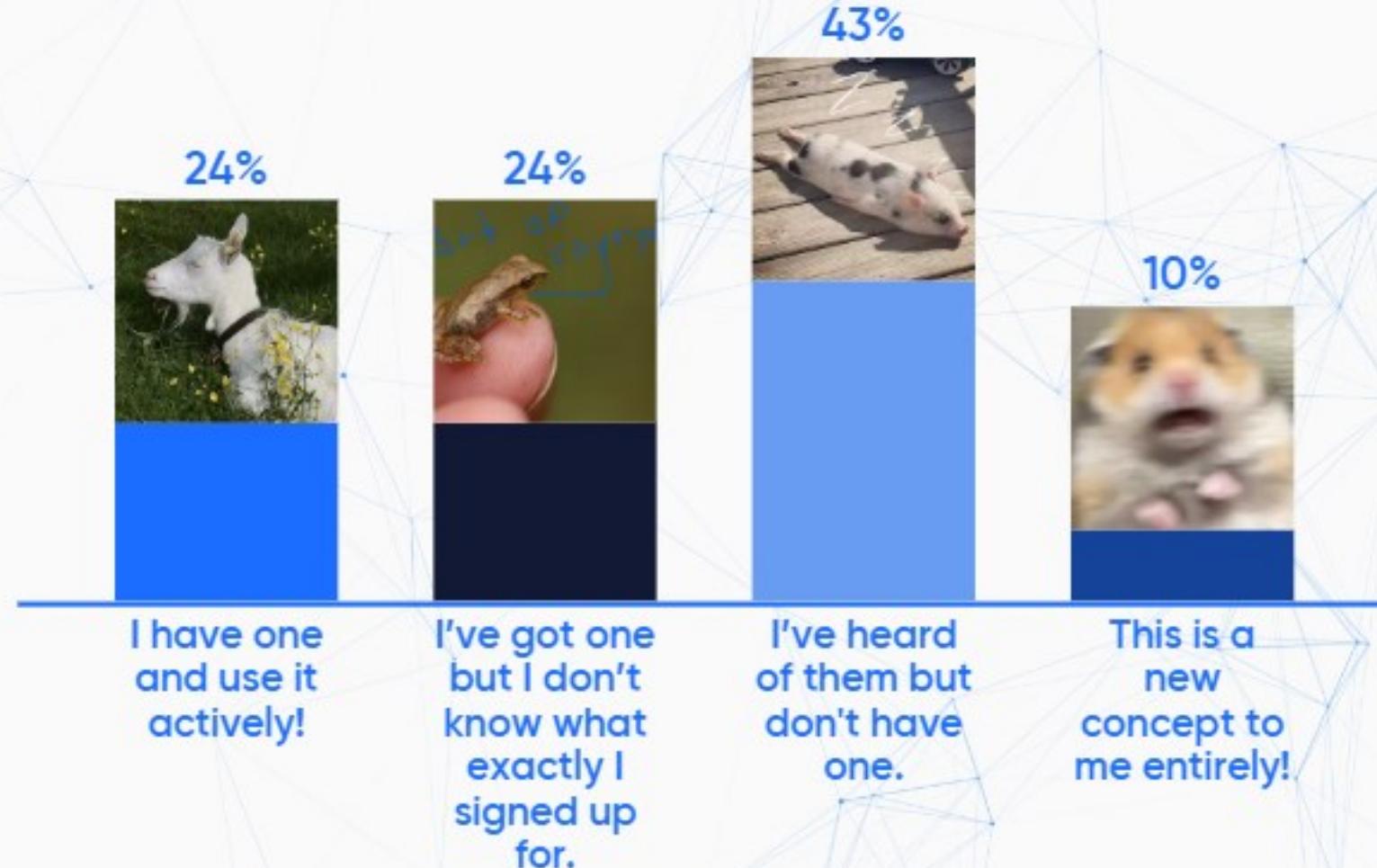
find a paper

as part of a bibliography
verify article reference

online-publication

citation

What is your familiarity with ORCiD?

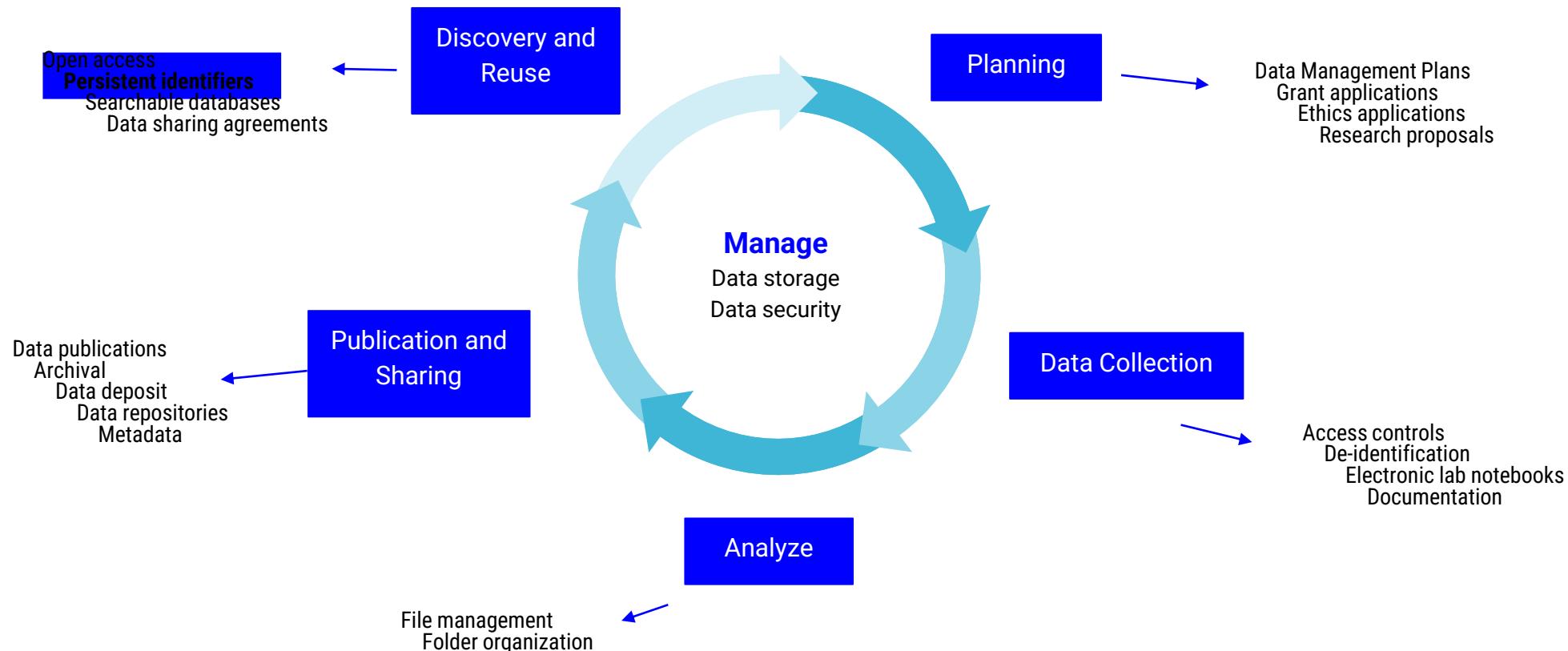


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Innovation, Science and Economic Development Canada. “Frequently Asked Questions -Tri-Agency Research Data Management Policy.” Government of Canada. Innovation, Science and Economic Development Canada, October 19, 2021. https://science.gc.ca/eic/site/063.nsf/eng/h_97609.html#1a

What is Research Data Management?

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



For a fuller introduction to RDM see our earlier webinar “Best Practices for Managing Data in your Research” - <https://scds.github.io/intro-rdm/intro.html>

Directories

Mosaic

Daily News

RDM

RDM User

Library

»

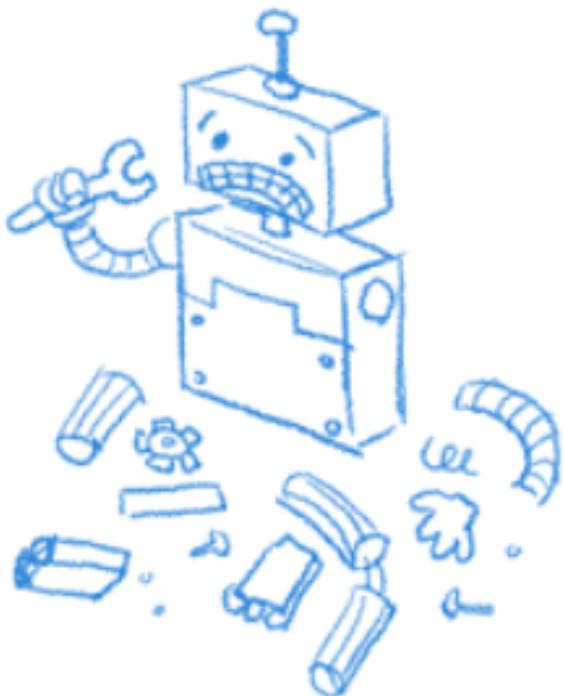
Other

"link rot"



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Popular

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994 reading r

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5 4.2 magnit Buffalo, N.

Link rot in the everyday – CBC News – February 2023

<https://www.cbc.ca/news/business/empty-offices-housing-1.6736171>

This mid-rise office tower in downtown Toronto, photographed with a wide-angle lens, is the type of building that could be strong candidate for converting to residential because it's not too old, not too big and has many windows. (Patrick Morrell/CBC)

816 comments



Several Canadian cities are facing high office vacancy rates even as many workers have returned to downtown towers and suburban business parks.

With residential rents increasing and a housing shortage in much of Canada, the idea of turning empty offices into housing is very trendy.

There's even government funding for renovating offices into residential use.

Projects are underway in [Calgary](#) and [Halifax](#); others are being planned or debated in [Toronto](#), [London, Ont.](#), and [Yellowknife](#).

But what are the keys to making an office conversion work?

ersions reduce the glut of office space, and create meaningful housing

parts inside the industry to find out

Zittrain, Jonathan, John Bowers, and Clare Stanton. "The Paper of Record Meets an Ephemeral Web: An Examination of Linkrot and Content Drift within The New York Times." *SSRN Electronic Journal*, 2021.

<https://doi.org/10.2139/ssrn.3833133>

Following the 2018 Federal Budget that committed \$572.5M towards a national DRI strategy,³ ISED announced a contribution program in Spring 2019 to fund a new not-for-profit DRI

³ Naylor, C.D. et al. (2017). Investing in Canada's Future: Strengthening the Foundations of Canadian Research. <http://www.sciencereview.ca/eic/site/059.nsf/eng/home>

⁴ Government of Canada. (2020). Tri-Agency Statement of Principles on Digital Data Management. https://www.ic.gc.ca/eic/site/063.nsf/eng/h_83F7624E.html (Retrieved November 2020)

⁵ Baker, D. et al. (2019). Research Data Management in Canada: A Backgrounder. Zenodo. <http://doi.org/10.5281/zenodo.3341596>

⁶ <https://portagenetwork.ca>

⁷ <https://www.rdc-drc.ca>

⁸ Attendees of the NDSF Summit. (2019). Kanata Declaration. Zenodo. <http://doi.org/10.5281/zenodo.3234815>

⁹ Innovation, Science, and Economic Development Canada. (2019). Digital Research Infrastructure. <https://www.ic.gc.ca/eic/site/136.nsf/eng/home> (Retrieved November 2020)

Reference rot in research: Digital Research Alliance of Canada, *The Current State of Research Data Management in Canada*, November 2020

https://alliancecan.ca/sites/default/files/2022-04/2020-11_RDM_Current_State_Report_1.pdf



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sciencereview-examenscience.gc.ca's server IP address could not be found.

Try:

- Checking the connection
- Checking the proxy, firewall, and DNS configuration
- Running Windows Network Diagnostics

Reference rot in research: Digital Research Alliance of Canada, *The Current State of Research Data Management in Canada*, November 2020

https://alliancecan.ca/sites/default/files/2022-04/2020-11_RDM_Current_State_Report_1.pdf

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Research Data Management in Canada: A Backgrounder

Baker, David; Bourne-Tyson, Donna; Gerlitz, Laura; Haigh, Susan; Khair, Shahira; Leggott, Mark; Moon, Jeff; Ridsdale, Chantel; Tourangeau, Robbin; Martha Whitehead

Other(s)

Humphrey, Charles

This report provides an overview of the DM environment in Canada, and identifies key challenges to achieving this goal, and will be updated annually to communicate changes in the landscape.

Reflects the state of the Canadian RDM ecosystem as of late 2018. Updates of the document will be published every year.

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Publication date:

July 18, 2019

DOI:

DOI 10.5281/zenodo.3341596

Keyword(s):

data management research data mana

Communities:

Digital Research Alliance of Canada
recherche numérique du Canada
Research Data Canada - Données

Reference rot in research: Digital Research Alliance of Canada, *The Current State of Research Data Management in Canada*, November 2020

https://alliancecan.ca/sites/default/files/2022-04/2020-11_RDM_Current_State_Report_1.pdf

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Research Data Management in Canada: A Backgrounder

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Other(s)

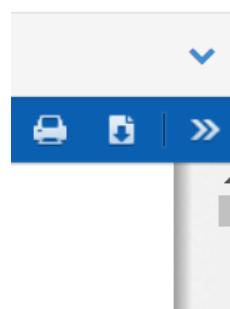
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Publication date:

December 13, 2019

DOI:

DOI [10.5281/zenodo.3574685](https://doi.org/10.5281/zenodo.3574685)

Keyword(s):

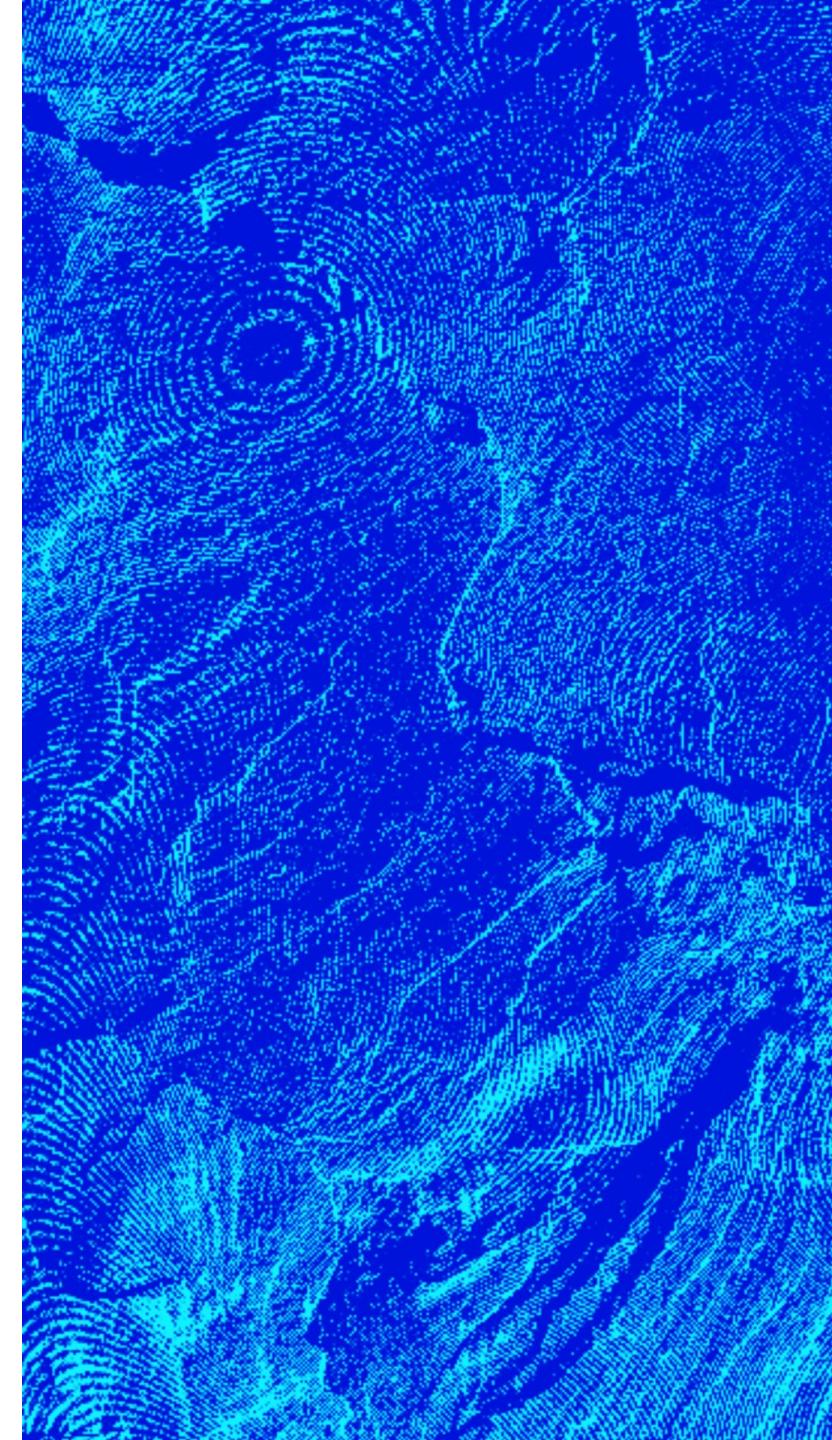
data management research data management

Communities:

Looking Closer

⁸ Attendees of the NDSF Summit. (2019). Kanata Declaration. Zenodo.
<http://doi.org/10.5281/zenodo.3234815>

- DOI: “Digital Object Identifier”
- Frequently used in publishing – you may have a DOI for an article you’ve written
- One of many types of **Persistent Identifiers (PIDs)**
- **Unique, permanent** strings of numbers and letters
- Contract to ensure it remains unchanged over time



Persistent Identifiers (PIPs)

- Research involves a lot of stakeholders, products, sources:
 - researchers, publications, data, code, grants, institutions, and more.
- Persistent identifiers are **unique and immovable touchpoints** or anchors.
- They help facilitate links between researchers, publications, and more.
- Clearer for **humans** reading them, and make more stable, interconnected systems for **computers** to read.
- Concept has been around forever – ISBNs are a unique identifier!



PID Structure

1. Protocol

<https://hostname.org/>

<https://doi.org/>

<https://ror.org/>

<https://orcid.org/>

<http://hdl.handle.net/>

2. Collection Identifier

10.99999/

10.5683/

11375/

3. Local Identifier

12345

SP2/VAPPJQ

02fa3aq29

0000-0001-6326-7659

28059

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As disasters are becoming increasingly datafied, social justice in disaster settings is often overlooked. This article uses a data justice lens to reveal how data projects and social justice intersect in disaster settings. It shows how such projects can exacerbate or mitigate structural inequalities in terms of resilience and recovery from disasters, and the second to the problem of datafication. A data justice lens draws attention to the way data projects influence social justice in disaster settings and the insights this yields for designers. It also shows how such projects influence social justice in disaster settings and the insights this yields for designers. A case study of a civic technology project analyse two locally led civic tech projects that sought to give disaster-affected people a role and a voice in disaster response and recovery efforts. However, as they were run by NGOs, they still ended up mainly serving those who were relatively well-off and concludes by recommending critical and strategic considerations for justice in disaster settings.

articles
data
software

DOI – Digital Object Identifier

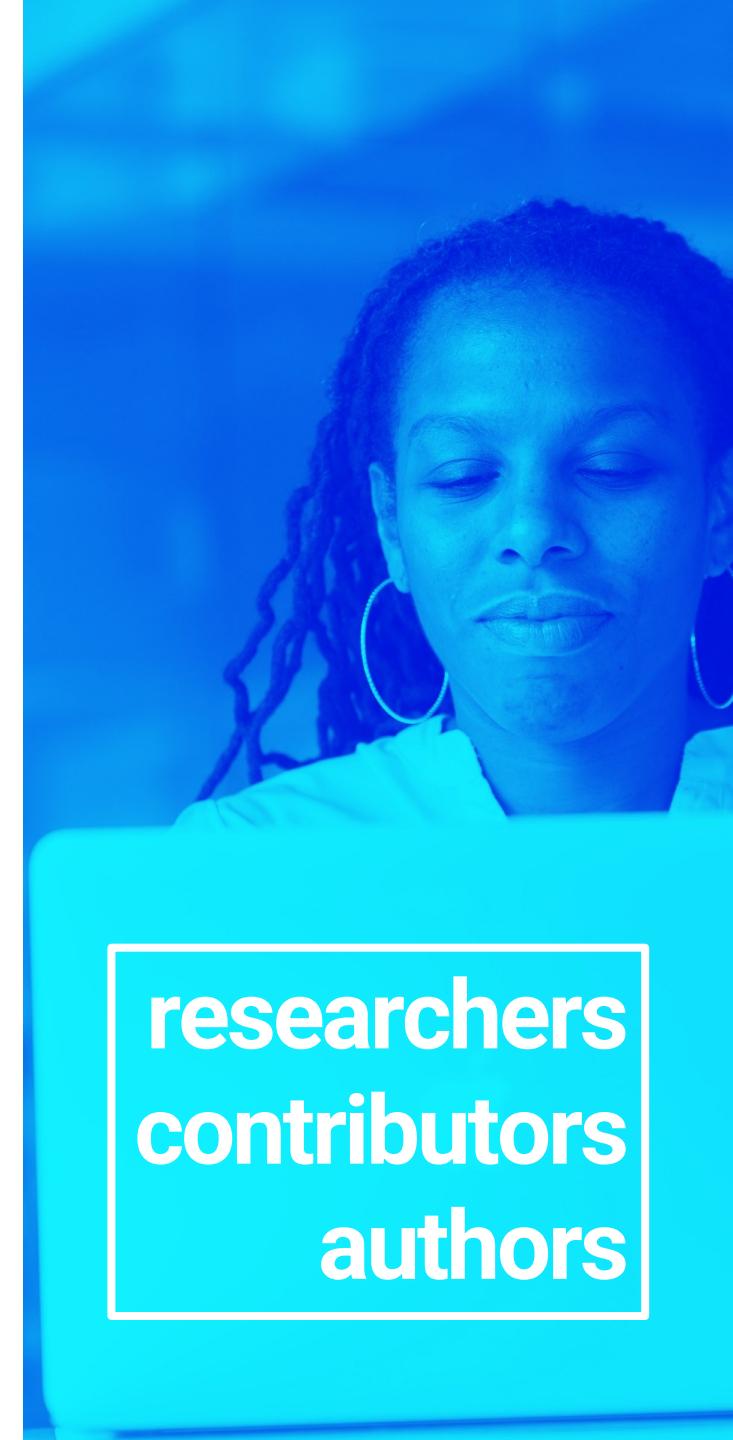
- **Content:** articles, books, ebooks, datasets, publications, audio/visual content, software
- Not-for-profit organization, registration authority for the ISO standard
- **Crossref** and **DataCite** are foundation members and can create DOIs
- **Handle** – PID for online resources – DOIs use the Handle.Net Registry (MacSphere)
- *Others: Archival Resource Key (ARK), Persistent Uniform Resource Locator (PURL), Uniform Resource Name (URN)*

ORCID – Open Researcher + Contributor ID

- **Content:** researchers, authors, contributors
- Open, global, community-built not-for-profit organization.
- Free for users and sustained by member organizations.
- Contributor Roles Taxonomy (CRediT):
 - **Framing:** i.e. Conceptualization, Methodology
 - **Admin:** Project Administration, Supervision, Funding acquisition
 - **Support:** Data Curation, Software, Visualization

Contributor Roles Taxonomy, “CRediT: 14 Contributor Roles,” 2023, accessed February 10, 2023,
<https://credit.niso.org/>

Image by Christina @ WOCinTech.com on Unsplash.





ROR – Research Organization Registry

- **Content:** universities, research institutions, research centres, etc.
- Global, community-led registry
- Collaborative initiative of **California Digital Library, Crossref, and DataCite**
- McMaster University -
<https://ror.org/02fa3aq29> vs. McMaster Children's Hospital -
<https://ror.org/03cegwq60>

Saforrest, "Hamilton Hall at McMaster University, home of the Department of Mathematics," 26 October 2007, Wikimedia Commons, https://commons.wikimedia.org/wiki/File:Hamilton_Hall_at_McMaster_University.jpg

Other PIDs

- **RAID:** Research Activity ID – “envelope” for funders, data, collaborators, organizations, tools and services.
- **RRID:** Research Resource ID - can be used for exact equipment, cell lines, software versions
- **Grant ID:** Cite your Grant ID number to show accountability and get credit.

Unique and Immovable Anchors

- Internet is always changing and shifting!
- PIDs are a road sign – always points in a way you can predict and expect.
- Organization takes responsibility over time
- “Tombstone” - long-lasting reference to an object that gives information about the object...no matter what happens to it!



Photo by Mr. Xerty on Unsplash

Persistent Identifiers: Current Landscape and Future Trends

Mark Leggott, John Aspler, Brian Corrie,
Robyn Nicholson, Jill Liu, Carly Huitema,
Research Data Canada IDs Working Group,
Standards and Interoperability Committee.
March 2022, 10.5281/zenodo.7065515

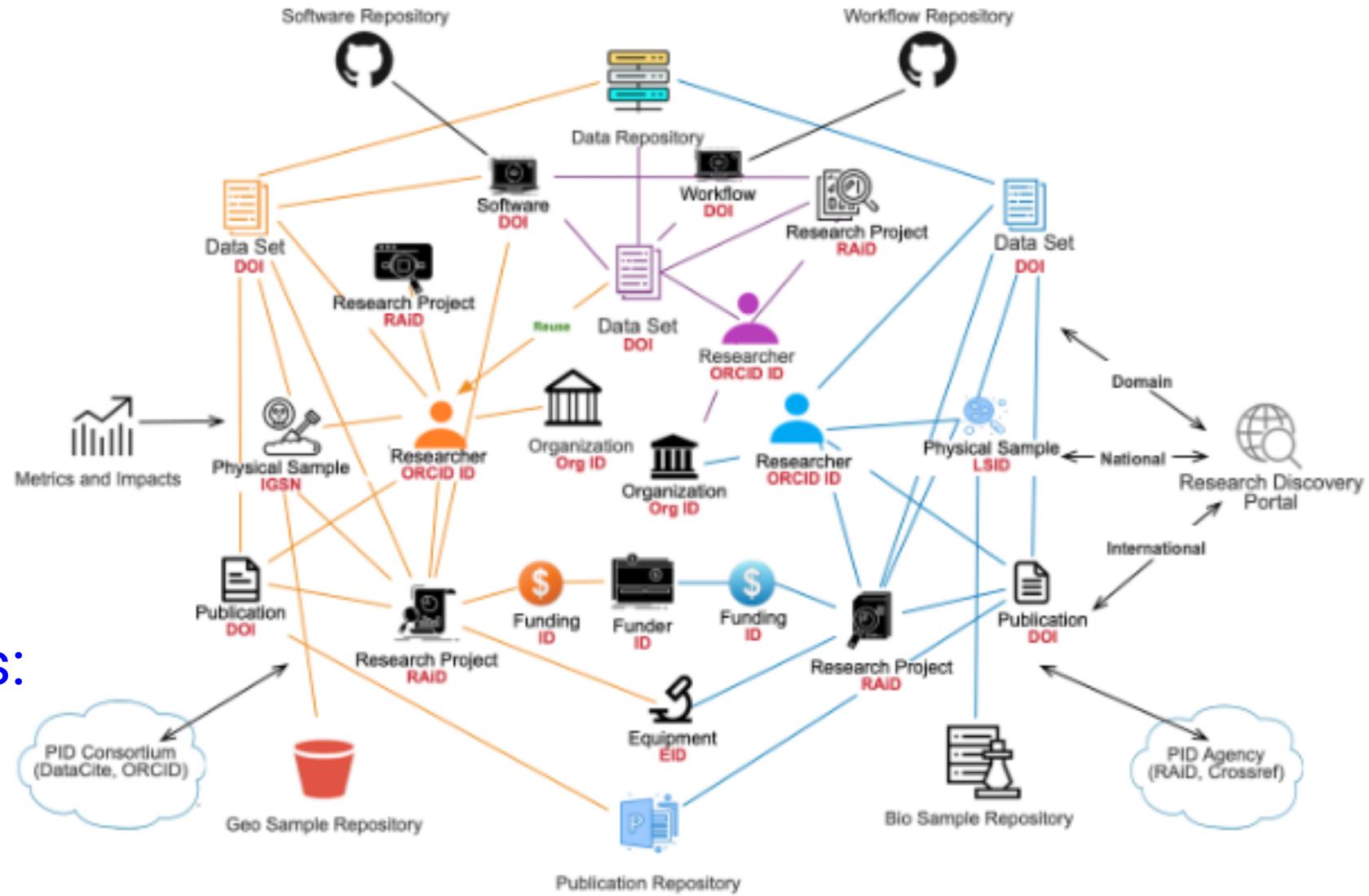
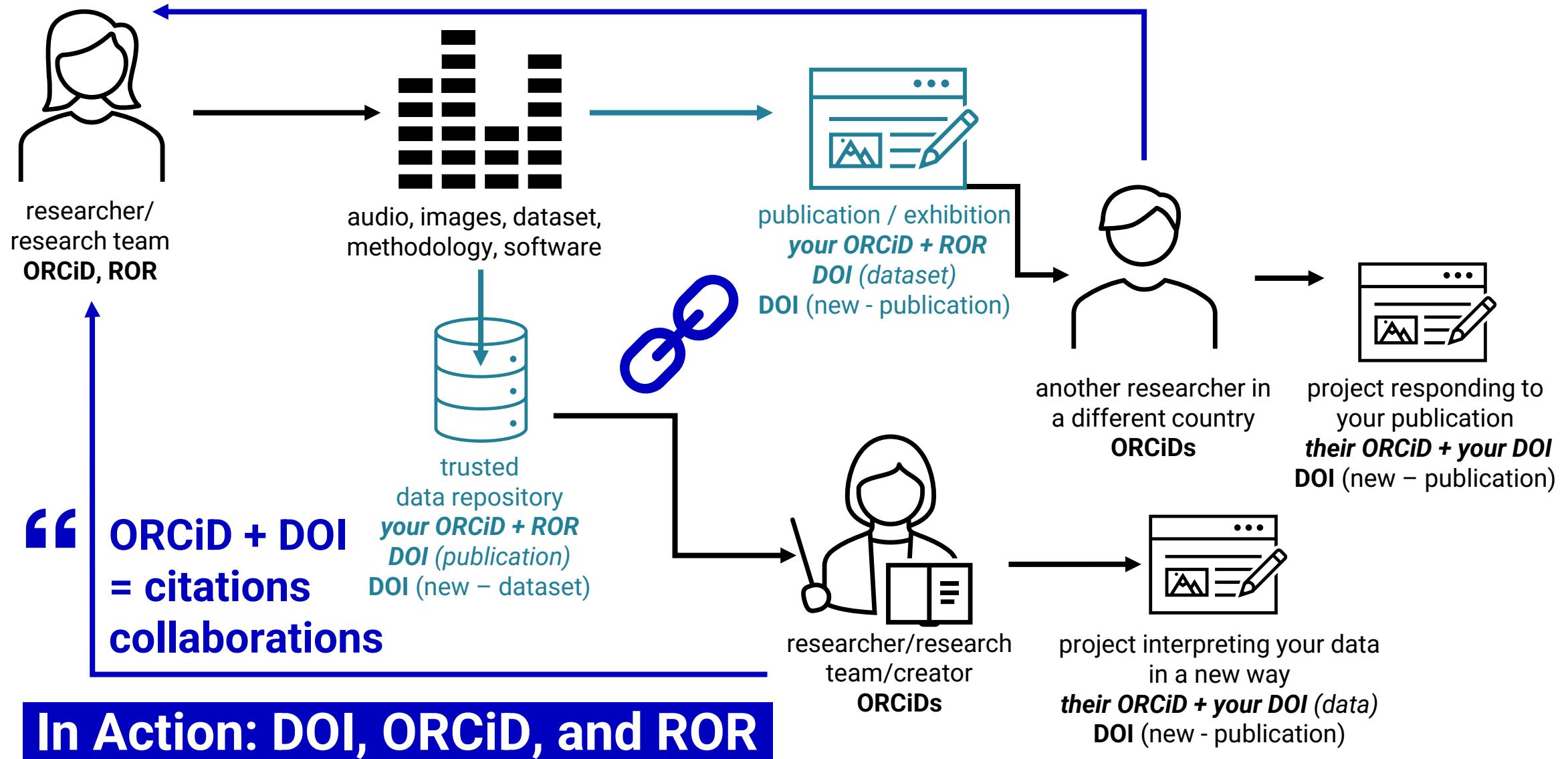
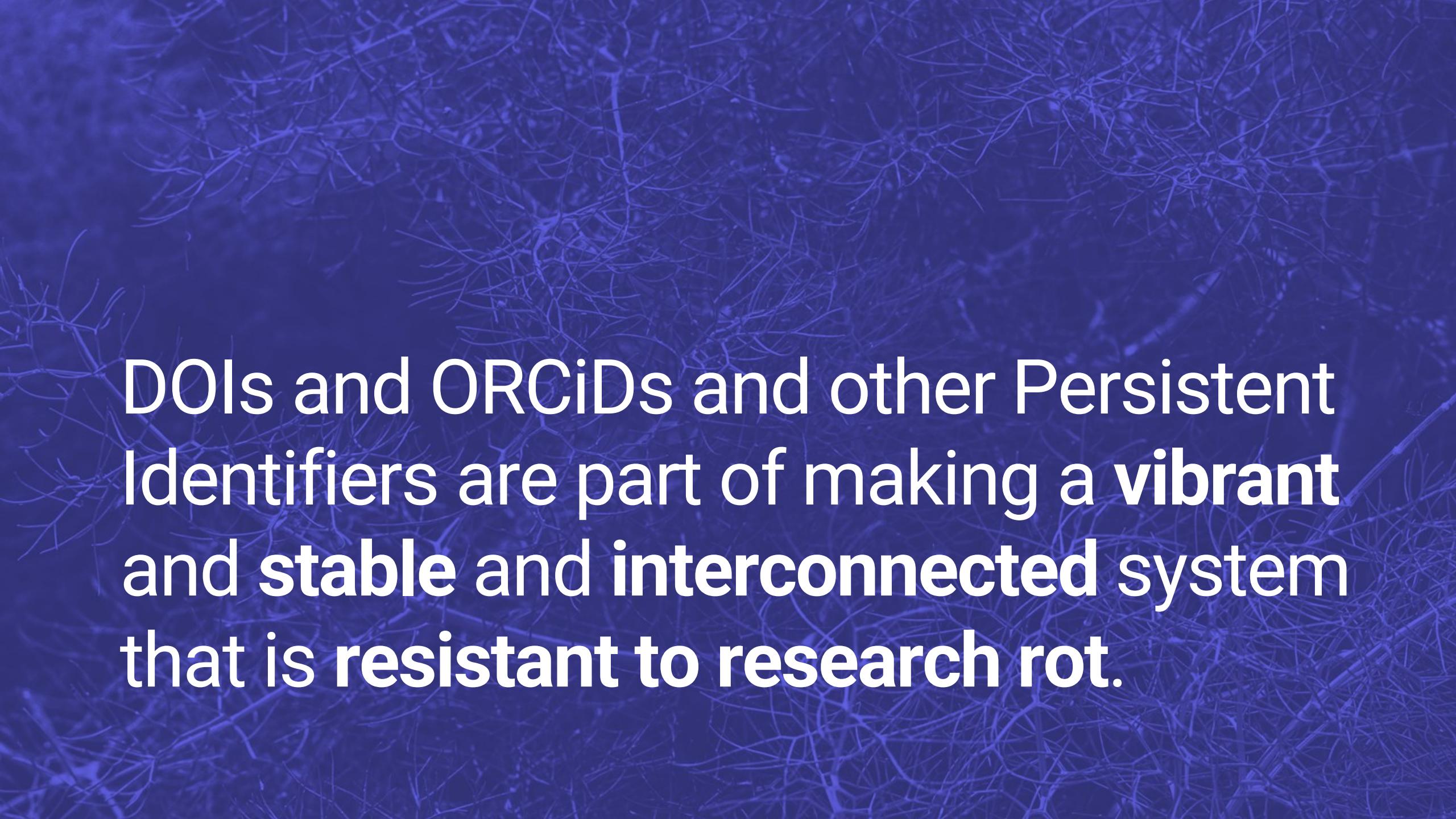


Fig.1 The PIDs Ecosystem





DOIs and ORCIDs and other Persistent Identifiers are part of making a **vibrant** and **stable** and **interconnected** system that is **resistant** to research rot.



Data Repository - DOI McMaster Dataverse *connections: Publication DOI, ORCiDs*

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About Dataverse

The McMaster University Dataverse is a research data repository for our faculty, students, and staff. Files are held in a secure environment on Canadian servers. Researchers can choose to make content available publicly, to specific individuals, or to keep it private.

For information on research data management, including best practices for sharing and preserving research data, consult McMaster's [Research Data Management](#) website.

The Library can assist with using the repository service and will help you prepare your data for sharing and preservation.

- Before depositing a dataset in the McMaster Dataverse, please look through the [Data Deposit Guidelines](#) for information on what is required to deposit data.
- For a full walkthrough of depositing data to McMaster Dataverse, please [click here](#)

If you need assistance please contact: rdm@mcmaster.ca

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Volume 36, Issue 3
September 2021

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JOURNAL ARTICLE

Citational politics: Quantifying the influence of gender on citation in *Digital Scholarship in the Humanities*

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Amy E Earhart, Roopika Risam , Matthew Bruno

Digital Scholars

594, <https://doi.org/10.1093/dsh/hab001>

Published: 03

“ Cite

Abstract

Using citations from digital humanities conference special issues, this examination of citations in digital humanities conference special issues from 2006 to 2015 demonstrates gender bias in citational practices. This bias is consistent with broader trends in citational politics across the academy more generally.

September 2021, Pages 581–

Roopika Risam

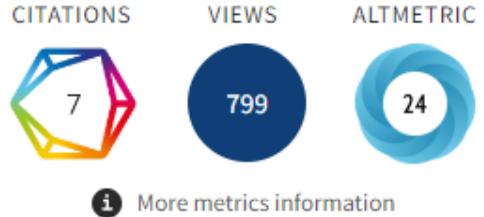
Departments of Secondary and Higher Education and English, Salem State University, USA

Correspondence: Roopika Risam, 352 Lafayette Street, Salem, MA 01970, USA. **E-mail:** rism@salemstate.edu

<https://orcid.org/0000-0002-0742-7352>

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er in citation practices in Humanities. Our examination of citations in digital humanities conference special issues from 2006 to 2015 demonstrates gender bias in citational practices. This bias is consistent with broader trends in citational politics across the academy more generally.



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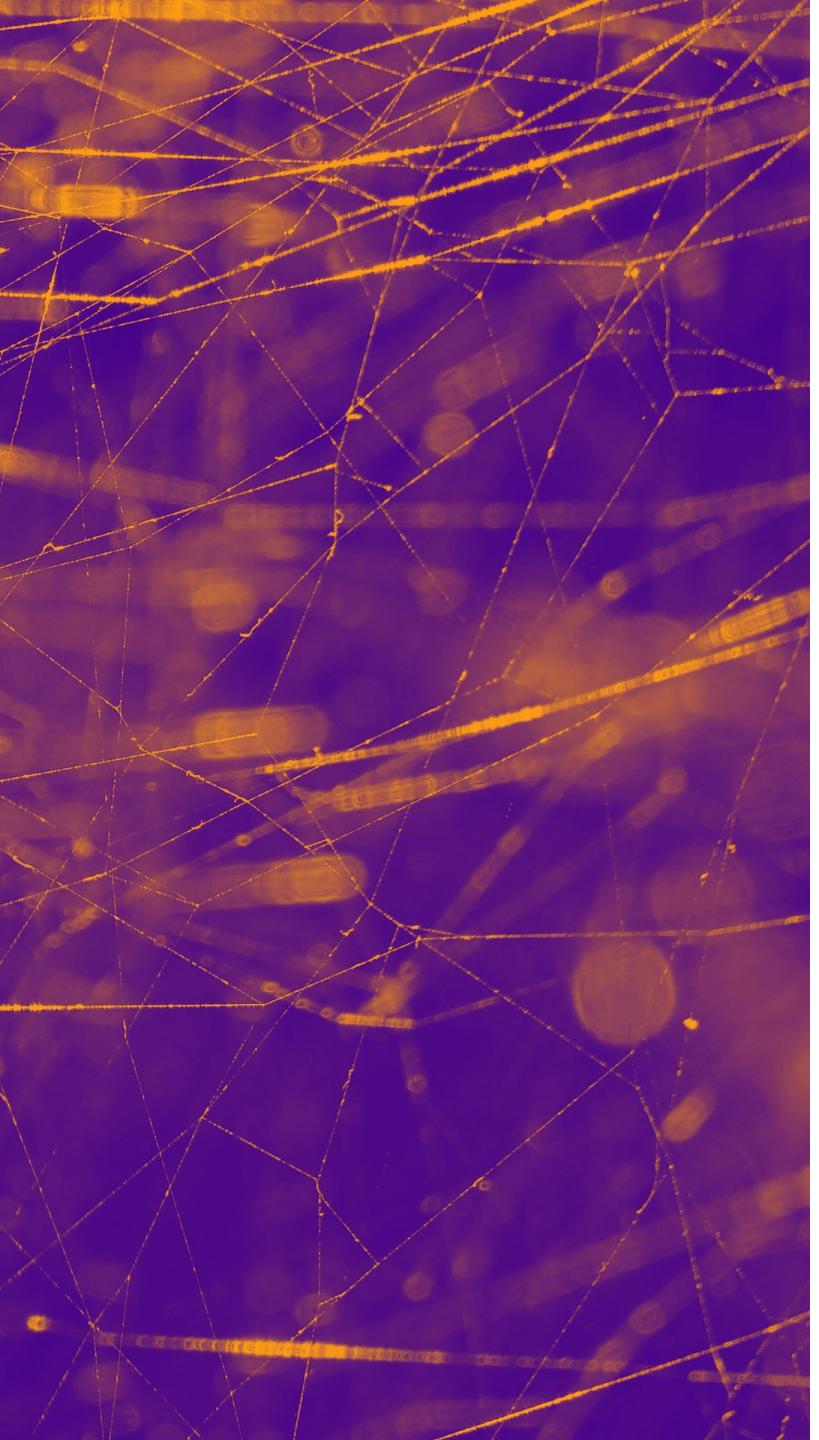
Citing articles via

[Web of Science \(3\)](#)

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Publishing – DOI connections: data DOI, ORCiDs

Issue Section: [Original Articles](#)



RDM Community of Practice

- Monthly meetings of people interested in RDM at McMaster – **Thurs. Nov. 24 – 11 AM!**
- Guest presentation by Dr. Lawrence Grierson - Family Medicine at McMaster
- Exploring RDM in Medical Education Research.
- Connect with other researchers practicing RDM across the university!
- <https://u.mcmaster.ca/rdm-community>



March 15 | 10:30-11:30am
Virtual Workshop

Before You Dig: Finding and Reusing Datasets

u.mcmaster.ca/scds-events



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April 5 | 10:30-11:30am
Hybrid Workshop

Qualitative Data: Practices for RDM Planning & Sharing

u.mcmaster.ca/scds-events

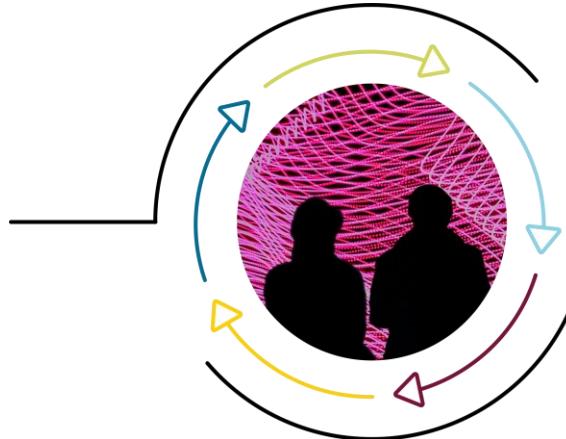


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