Transforming Metadata
Increasing Access to Federally Funded Research
Housekeeping…

WebEx

- If your computer audio is not working, please dial in by phone
  - Dial-in information has been posted in Chat

- To submit questions, use Chat and send to “Everyone”
  - Note: Your question will be visible to others attending this session
Housekeeping…

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Post-event

OCLC will make available:
  • Recordings of each session
  • Slides

Notifications:
  • Registrants will receive an email via WebEx
  • OCLC will post links to content in the OCLC Cataloging & Metadata community and on the event page on oclc.org
Richard J. Urban (MLIS, PhD)

Senior Program Officer
OCLC Research Library Partnership
Sara Gonzales (MS, MLIS)

Senior Data Librarian
Galter Health Sciences Library & Learning Center
Northwestern University
Feinberg School of Medicine
Anchalee (Joy) Panigabutra-Roberts

Head of Cataloging / Associate Professor at the University of Tennessee Libraries, Knoxville, Tennessee

and an Americas Regional Council delegate to the OCLC Global Council (2022-2025)
Charles Watkinson

Associate University Librarian for Publishing and Director of University of Michigan Press at University of Michigan

President, Association of University Presses
Rebecca Welzenbach

Research Impact and Information Science Librarian at the University of Michigan Libraries
Transitioning to the Next Generation of Metadata

The transition to **linked data and identifiers**

Describing “**inside-out**” and “**facilitated**” collections

Evolution of “**metadata as a service**”

With effects on future **staffing requirements**
“Next Generation Metadata”

• Marked by multiple, ongoing technological and social currents that influence the work of libraries, their users, and the systems they develop

• Reflects systems of knowledge organization that are iterative and evolving, influenced by culture and positionality, and ultimately socially negotiated over time

• Describes collections that reflect priorities (and omissions) that are/have been socially negotiated (or imposed) over time
Continuing Work
Increasing Access to Funded Research

“Today an ever-increasing number of funders, research organizations, and regional bodies are requiring public access to scholarly or scientific research, including publications and/or data....The failure to comply with an open access mandate potentially risks economic losses for the investigator and the institution.”

The Nelson Memo

- Collect and make appropriate metadata publicly available
- Federally funded researchers should obtain a DPI/PID
- Assign DPI/PIDs to all scientific research and development awards…that link the funding agency and their awardees through DPI/PIDs

Sara Gonzales (MS, MLIS)
Senior Data Librarian
Galter Health Sciences Library & Learning Center
Northwestern University
Feinberg School of Medicine
How can libraries and librarians support open publishing and open data?
OSTP/Nelson memo: removes 12-month publication embargo

Scholarly community reactions

Open letter to the WHOSTP and Subcommittee on Open Science (ostp-letter.github.io)
- Recommendation 3. Build, or fund the scholarly community to build a unified and freely accessible infrastructure for publishing content

- Research libraries are key partners providing this infrastructure (to a degree)
- ARL & many libraries support open science
- Likewise support use of free tools to encourage findability and openness (PIIDs, standard metadata schema, etc.)
Data Librarians
Critical Infrastructure

Data Management Training / NIH DMS Policy
- Consistent variable and file naming
- Supporting good data management practices
- Encouraging use of authoritative metadata
- Identifying appropriate repositories

Standards underlying current solutions
- DataCite for digital objects, & links between them
- PIDs, especially DOIs for all research objects
- ORCiD
- Research Organization Registry (ROR)
- Subject vocabularies (MeSH, LCSH)
The Repository Landscape: Desirable Characteristics

- NIH supported data repositories
  - Infrastructure in place by NIH
- Registry of Research Data Repositories
- Institutional repositories
- Generalist repositories (Generalist Repository Comparison Chart, GREI)
  - All mint DOIs for deposit
  - All support DataCite metadata schema to describe datasets
  - All support various vocabularies / taxonomies for subject content

Table 1: DataCite Mandatory Properties

<table>
<thead>
<tr>
<th>ID</th>
<th>Property</th>
<th>Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identifier (with mandatory type sub-property)</td>
<td>M</td>
</tr>
<tr>
<td>2</td>
<td>Creator (with optional name identifier and affiliation sub-properties)</td>
<td>M</td>
</tr>
<tr>
<td>3</td>
<td>Title (with optional type sub-properties)</td>
<td>M</td>
</tr>
<tr>
<td>4</td>
<td>Publisher</td>
<td>M</td>
</tr>
<tr>
<td>5</td>
<td>Publication Year</td>
<td>M</td>
</tr>
<tr>
<td>10</td>
<td>Resource type (with mandatory general type description sub-property)</td>
<td>M</td>
</tr>
</tbody>
</table>

Table 2: DataCite Recommended and Optional Properties

<table>
<thead>
<tr>
<th>ID</th>
<th>Property</th>
<th>Obligation</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Subject (with scheme sub-property)</td>
<td>R</td>
</tr>
<tr>
<td>7</td>
<td>Contributor (with type, name identifier, and affiliation sub-properties)</td>
<td>R</td>
</tr>
<tr>
<td>8</td>
<td>Date (with type sub-property)</td>
<td>R</td>
</tr>
<tr>
<td>9</td>
<td>Language</td>
<td>O</td>
</tr>
<tr>
<td>11</td>
<td>AlternateIdentifier (with type sub-property)</td>
<td>O</td>
</tr>
<tr>
<td>12</td>
<td>RelatedIdentifier (with type and relation type sub-properties)</td>
<td>O</td>
</tr>
<tr>
<td>13</td>
<td>Size</td>
<td>O</td>
</tr>
<tr>
<td>14</td>
<td>Format</td>
<td>O</td>
</tr>
<tr>
<td>15</td>
<td>Version</td>
<td>O</td>
</tr>
<tr>
<td>16</td>
<td>Rights</td>
<td>O</td>
</tr>
<tr>
<td>17</td>
<td>Description (with type sub-property)</td>
<td>R</td>
</tr>
</tbody>
</table>
Thank You

Sara Gonzales, MS, MLIS
Senior Data Librarian
Galter Health Sciences Library & Learning Center
sara.gonzales2@northwestern.edu

Support and Collaboration
• Galter Health Sciences Library, Feinberg School of Medicine
• Zenodo team https://zenodo.org/
• InvenioRDM open source community https://inveniosoftware.org/
• NIH Office of Data Science Strategy/Office of the NIH Director pursuant to OTA-21-009, “Generalist Repository Ecosystem Initiative (GREI)” through OTA# 1 OT2 DB000013-01
Anchalee (Joy) Panigabutra-Roberts

Head of Cataloging / Associate Professor at the University of Tennessee Libraries, Knoxville, Tennessee

and an Americas Regional Council delegate to the OCLC Global Council (2022-2025)
ORCID in the Catalog @UTK & the Nelson Memo

Anchalee (Joy) Panigabutra-Roberts
Associate Professor. Head, Cataloging
University of Tennessee Libraries
Americas Regional Council delegate to the OCLC Global Council (2022-2025)
apanigab@utk.edu

November 30, 2022
UT Libraries' Cataloging Workflow to Add ORCIDs to ETD Catalog Records & LC Authority Records (PCC URIs in MARC Pilot’s Documentation & NACO 024 Best Practices)

**ORCID**
- Authors
- TRACE (Digital Commons)
- Degree supervisors
- Faculty websites
- Dimensions.ai

**OCLC WorldCat**
- $1
  https://orcid.org/0000-0002-9333-1102

**Alma Local Records**
- $0 (orcid)0000-0002-9333-1102
- $1
  https://orcid.org/0000-0002-9333-1102
ORCID as a hub for other researcher identifiers

https://orcid.org/0000-0002-9333-1102

Activities

Employment (6)

University of Tennessee: Knoxville, TN, US

2016-11-01 to present | Head, Cataloging and Metadata (University Libraries) Employment
Source: Anchalae Panigabutra-Roberts

American University in Cairo: New Cairo, EG

Source: Anchalae Panigabutra Roberts

Keywords

researcher identifiers, human trafficking, Wikidata, Scholarly

Digital Science: https://www.digital-science.com/audience/academic-institutions/

Elements: https://faculty.utk.edu/Anchalae_Panigabutra-Roberts/
WorldCat Entities acts as a link between the bibliographic universe & researcher identity management systems plus many more integrations.

**WorldCat Entities** as a hub for other authority data.

Library of Congress Name Authority.

- ORCID ID: 0000-0002-9333-1102
- VIAF ID: 31152079187407112399
- WikiData Item ID: Q62393357
The Nelson Memo’s Impact On ORCID Users @UTK

ORCID

- Employment
- Education
- Funding
- Works
- Etc.

ORIED@UTK
- Register with ORCID IDs
- Populate your ORCID ID account
- Link your populated ORCID IDs to SciENcv

UTK Faculty

UT Libraries’ LibGuide
- ORCID
- Elements
- Pivot
- SciENcv

Scholars’ Collaborative @ UT Libraries
PERSPECTIVE

Charles Watkinson

Associate University Librarian for Publishing and Director of University of Michigan Press at University of Michigan
ABOUT THE ASSOCIATION OF UNIVERSITY PRESSES (AUPRESSES)

• 158 member presses in 17 countries
  • ca. 100 members based at colleges and universities
  • Over one third of these report organizationally to libraries
  • More than half have annual income under $1.5 million
  • At least 70% publish open access books
• Together publishing approximately 1,500 journals and 12,000 books annually, with over 330,000 titles in print

https://aupresses.org/
PERSPECTIVE

Rebecca Welzenbach
Research Impact and Information Science Librarian at the University of Michigan Libraries
Where did I come from?

Michigan Publishing, U-M Library

- Digital Publishing assistant (2009)
- Digital Publishing Coordinator (2010-2012)
- Text Creation Partnership (2010-2014)
- Director, Strategic Integration and Partnerships (2015-2017)
- Research Impact Librarian (2018-present)
- Information Science Librarian (2021)

Themes: open access, digital scholarship, usage/metrics, innovative business models/partnerships for producing & preserving scholarship, telling the story of why our scholarship matters
Michigan Research Experts (MRE)

- Connection to ORCID, Altmetric, Deep Blue repository
- Representation of University Library
- Collaboration with Michigan Medicine colleagues
ORCID

- Education and outreach to faculty, graduate students
- Connections to tools like MRE, Deep Blue Repository, etc.
- Contact for other campus entities
Altmetric

- Instruction and support
- Guidance for publishing & communicators who want engagement
- Creating reports/alerts
- Flagging strengths and shortcomings
# Research Impact Challenge

- Optional e-mail-based challenge
- Available as a guide or stand-alone workshop
- Connects the threads of other work & projects
- Seeks to work for folks across disciplines & domains

## Introduction: Research Impact Challenge

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Register your ORCID and associate with your U-M identity</td>
</tr>
<tr>
<td>2.</td>
<td>Create your Google Scholar profile</td>
</tr>
<tr>
<td>3.</td>
<td>Preserve and Sharing your work in a Digital Repository</td>
</tr>
<tr>
<td>4.</td>
<td>Social Media Audit</td>
</tr>
<tr>
<td>5.</td>
<td>Your personal web-page: putting the pieces together</td>
</tr>
<tr>
<td>6.</td>
<td>What if I do, what's important to me &amp; what is &quot;metric&quot;</td>
</tr>
<tr>
<td>7.</td>
<td>Finding appropriate metrics</td>
</tr>
<tr>
<td>8.</td>
<td>The &quot;h&quot;-index (and other citation-based measures of impact)</td>
</tr>
<tr>
<td>9.</td>
<td>Alternative Metrics</td>
</tr>
<tr>
<td>10.</td>
<td>Responsible Metrics</td>
</tr>
</tbody>
</table>

## Related Guides
- [Metrics and Metrics: Comparing for Institutions](http://example.com/metrics)
- [Open Access: What's the Best Practice?](http://example.com/open-access)
- [Research Impact Assessment (RIAs)](http://example.com/ria)
- [Research Impact Metrics: Citation Analysis](http://example.com/metrics/citation)
Discussion

• Digital Persistent Identifiers (DPIs, aka persistent identifiers. (PIDS)) are a cornerstone of the Nelson Memo. What have you been doing to build PID infrastructure and encourage adoption for different kinds of entities?

  – What is a DPI/PID?
  – Which are the important ones that I should care about?
Discussion

• What have you learned about complying with available (and emerging) agency guidelines for open access to federally funded research?
  – How do you *socially interoperate* with other campus units charged with compliance?
Discussion

• How can metadata improve user discovery experiences for OA publications of all types?
  – What rights metadata/use licenses are being used to differentiate OA versions from other versions?
Discussion

• The Nelson Memo expands the universe of agencies to include the humanities and social sciences. What are the lessons learned from existing agency guidelines that can prepare us for future guidelines?
Suggested Webex Layout for discussion

Click on “Layout” button

Choose “Grid” view

Panelists will display in a grid view
OCLC Research Library Partnership

Metadata Managers Focus Group

https://www.oclc.org/research/areas/data-science/metadata-managers.htm
Appendix Slides
10 Simple RDM Rules mapped to NIH DMP Elements

1. Describe the data
2. Choose documentation types
3. Describe the tools and software
4. Use standard file types, identifiers, and descriptive elements
5. Understand the options for preserving data
6. Find a repository
7. Coordinate timelines for data sharing
8. Protect privacy and confidentiality prior to access
9. Know the controls and approvals needed for data accessibility
10. Plan for and outline oversight of data management and sharing
Academic Ableism: Disability and Higher Education

Jay Timothy Dolmage

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Citable Link
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978-0-972-95371-1 (paper)
Next step needs to be adding chapter records
Next step would be adding CReDIT taxonomy?

ORCID author identifier (https://orcid.org/) - API available

ROR institution identifier (https://ror.org/) - API available
Transforming Metadata
Improving Access to Federally Funded Research