Collaborative Outreach and Education for Research Data Management and Use

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Source: “Performance” by Adrian Berg, access via Flickr, CC BY-NC 2.0
$1.4 million Mellon grant to support innovative collaboration between Carleton and St. Olaf Colleges

Broadening the Bridge: A Collaboration Grant

Image courtesy of the Theater Department, St. Olaf College
Broadening the Bridge: IT/Library Programs

Learning Communities
Digital Research & Teaching across the Curriculum

Community of Practice
aka DigiFriday!

Teaching & Technology Showcases

Bridge Crossings Website
Creating a Culture of Data Management

“window to a secret place” by Grant MacDonalda via Flickr, under [CC BY-NC-2.0](https://creativecommons.org/licenses/by-nc/2.0/).
Research Data Lifecycle

- Creating Data
- Processing Data
- Analysing Data
- Preserving Data
- Giving Access to Data
- Re-Using Data
CICLO DE VIDA

APAREAMIENTO

HUEVECILLOS

LARVA U ORUGA

PUPAS O CRISALIDAS
Creating a Culture of Data Management

Strategies

Counter the perception that “data management doesn’t apply to me.”

Establish information management as an essential personal, professional, and scholarly skill set.

Start with practices for everyday situations that can then be “scaled up” to research projects and systemic workflows.
Creating a Culture of Data Management

Tactics

Integrate data literacy and data management education into our information literacy curriculum.

Provide R&I librarians with the tools to teach their students and faculty basic data management concepts.

Balance the systematic with the serendipitous.
Case Study: Locating Lutheranism

LOCATING LUTHERANISM

http://pages.stolaf.edu/locluth
## Congregation Data (Phase 1)

<table>
<thead>
<tr>
<th>Congregation name</th>
<th>Location</th>
<th>Founding date</th>
<th>Event dates (split, divided, ceased, reorganized)</th>
<th>Synodical affiliations</th>
<th>Page number</th>
</tr>
</thead>
</table>
Case Study: Locating Lutheranism

MINNESOTA CONGREGATIONS

1,536 congregation entries

348 images
Case Study: Locating Lutheranism
Managing Congregation Data

Design
- Google spreadsheet for entry
- Auto-populated Google sheets
- Relational database (PostgreSQL)

Entry
- Data entry
- Google sheets auto-populate
- Import to PostgreSQL database

Use
- Export and share
- Simple queries, filter and sort
- Dynamic queries
Case Study: Locating Lutheranism
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Technologists and Administrators
- GIS Technologist
- Systems Administrator
- DH Interns
Case Study: Locating Lutheranism
Managing Congregation Data

Design:
- Google spreadsheet for entry
- Auto-populated Google sheets
- Relational database (PostgreSQL)
- GIS Technologist
- Systems Administrator

Entry:
- Data entry
- Google sheets auto-populate
- Import to PostgreSQL database
- DH Interns
- CURI Student
- Librarian

Use:
- Export and share
- Simple queries, filter and sort
- Dynamic queries
Case Study: Locating Lutheranism
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Entry
- Data entry
- Google sheets auto-populate
- Import to PostgreSQL database
- Librarian
- DH Interns

Redesign
- Simpler multi-user data entry
- Streamlined relational structure
- Improved data management practices

Education
Case Study: Digital Humanities Students

MANAGING AND SHARING RESEARCH DATA
A Guide to Good Practice

Table 5.2: Considerations in file format choice by sharing tools

<table>
<thead>
<tr>
<th>Format</th>
<th>Metadata</th>
<th>Accessibility</th>
<th>Intellectual Property</th>
<th>Discoverability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portable Document Format (PDF)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Microsoft Word Document (DOC, DOCX)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Text (formatted, plain text)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Key:
- **Metadata**: Does the tool allow for metadata to be added and manipulated?
- **Accessibility**: Is the tool designed with accessibility in mind?
- **Intellectual Property**: Does the tool respect and enforce intellectual property rights?
- **Discoverability**: Is the tool designed to make research discoverable?
Case study: Digital Humanities Students

Students identified a number of challenges for DM in DH.

“Content growing”

How are pilots and experimental projects categorized?

Multiple storage locations

How to handle files used and/or contributed by students in courses?
Case Study: ILSW

“Happy Sixth Birthday” Flickr User Aris Sánchez CC BY-NC-SA 2.0
Case Study: ILSW

Dropbox
Shared Network Drive
Google Docs
Local Files
Case Study: ILSW

Good Intentions
Case Study: ILSW

Image from page 70 of "Drawing made easy: a helpful book for young artists; the way to begin and finish your sketches, clearly shown step by step" (1921), via Internet Archive.
At School

"France in 2000: Future School" postcard from 1901 or 1910 via Wikimedia
**Next Steps**

Data management teaching modules for research & instruction librarians

Collaborative training for DH Associates/Interns to recognize data management issues

Data repository, with its own educational resources on data sharing, open data licensing, and so forth

“Branch of a pomegranate tree with blue morpho butterfly (Morpho menelaus) and larva of banded sphinx (Eumorpha fasciata)” via Getty Open Content Images.
Sets of at-the-ready examples, visuals, and prompts for the instruction librarians and others who work directly with faculty to illustrate basic, generalizable data management principles.

Applicable across disciplines and constituencies.
Collaboration

Doing together what you could never do alone.

"Turner Twins, Acrobats, 1937" by Sam Hood, via State Library of New South Wales on Flickr.