<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Research Data is like a Harmful Algal Bloom</td>
<td>Scout Calvert (Michigan State U)</td>
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<tr>
<td>02</td>
<td>Data Services Strategic Planning</td>
<td>Kristin Briney (U Wisconsin-Milwaukee)</td>
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<tr>
<td>03</td>
<td>Bringing Data Management to Graduate Students</td>
<td>Marina Zhang (U Iowa)</td>
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<td>04</td>
<td>Data Management for Business Students</td>
<td>Heather Howard (Purdue U)</td>
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<td>05</td>
<td>Data goes to the Dogs!</td>
<td>Rebecca Orozco (U Kansas)</td>
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<td>Open Curriculum for Open Data Training</td>
<td>Stephanie Wright (Mozilla Foundation)</td>
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<td>07</td>
<td>OSF in a Classroom</td>
<td>Kiem Ta (Oklahoma State U)</td>
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<td>08</td>
<td>Scholar@UC: Institutional Repository as research subject, teaching tool and data archive</td>
<td>Amy Koshoffer (U Cincinnati)</td>
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<td>09</td>
<td>Partnering to Create Repository Infrastructure for Biodiversity Data</td>
<td>Robert McDonald (Indiana U)</td>
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<td>10</td>
<td>Game On!: Managing Video Game Data</td>
<td>Rebekah Cummings (U Utah)</td>
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<td>11</td>
<td>Tag Teaming Data Requests: Librarian Partnerships with the Open Access Button</td>
<td>Chealsye Bowley (Florida Gulf Coast U)</td>
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<tr>
<td>12</td>
<td>Love Your Data 2017</td>
<td>Heather Coates (Indiana U-Purdue U-Indianapolis)</td>
</tr>
</tbody>
</table>
Research data is like a harmful algal bloom: Getting the right metaphor for the job

Scout Calvert, PhD
Data Librarian
Michigan State University
@windloochie
Pfiesteria piscicida
Research Data Lifecycle?

The Data Lifecycle

1. Data created/collection
2. Data processed
3. Data analysed
4. Data published
5. Data archived
6. Data reused
Unique Individuals per Stage

<table>
<thead>
<tr>
<th>Lifecycle stage</th>
<th>Number of people</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discover</td>
<td>8</td>
</tr>
<tr>
<td>Integrate</td>
<td>3</td>
</tr>
<tr>
<td>Plan</td>
<td>10</td>
</tr>
<tr>
<td>Collect</td>
<td>7</td>
</tr>
<tr>
<td>Analyze</td>
<td>5</td>
</tr>
<tr>
<td>Describe</td>
<td>7</td>
</tr>
<tr>
<td>Disseminate</td>
<td>12</td>
</tr>
<tr>
<td>Assure</td>
<td>3</td>
</tr>
</tbody>
</table>
Data Services
Strategic Planning

Kristin Briney
University of Wisconsin-Milwaukee

https://www.flickr.com/photos/76074333@N00/317952268 (CC BY) www.futuristmovies.com
Why?

• Set a vision for data services to meet a focused need during a specific period of time using identified resources

• Outline a path for establishing/building services

• Provide a way to solicit buy-in from peers and administrators

• Redone every few years to ensure that services are still targeting the most important requirements
## 2013 Plan

| 1. | Compile an online collection of data management resources |
| 2. | Provide individual consultations for data management plans |
| 3. | Offer instructional sessions on data management |
| 4. | Market these initial data services |
| 5. | Take part in any cross-campus data management groups |
| 6. | Survey campus data needs |
| 7. | Expand consultation services to cover data management in general |
| 8. | Offer consultation services for finding and citing datasets |
| 9. | Develop intra-library awareness of data issues |
| 10. | Establish workflows for adding datasets to the library holdings |
| 11. | Help researchers find repositories for their datasets |
| 12. | Help develop a long-term campus data storage and preservation solution |
| 13. | Help develop University policies concerning research data |
| 14. | Establish a cross-Wisconsin data services coalition |

### Short-Term Goals

### Medium-Term Goals

### Long-term Goals
2016 Plan

• Mission
  • “Data Services serves researchers at UWM by supporting funding compliance around data management, helping researchers work with data more easily, and exploring new avenues of scholarship with respect to data.”

• Background

• SWOT

• Strategic Goals w/ Timeline
2016 Plan Goals

1. Better outreach and marketing
   • Targeted messages to faculty about new data requirements (and corresponding services) via Office of Research emails, Library contacts, and other relevant venues
   • Outreach to individual departments, deans, and campus units supporting research
   • A better looking Data Services webpage and easier navigation to it from the UWM Libraries homepage

2. Work with strategic library contacts on basic data skills

3. Continue to improve educational programs
   • Overhauling in-person sessions to be active-learning driven
   • Reviewing and updating recorded materials for 24/7 access
   • Periodically offering larger training events and bringing in outside workshop offerings
   • Making efforts to integrate data instruction into existing graduate coursework and training

4. Investigate requirements to host research data and potentially implement a data repository

5. Form stronger regional partnerships
Resources


Bringing Data Management Training to Graduate Students

Midwest Data Librarian Symposium, Ann Arbor, MI
2016-10-18

Marina Zhang
Engineering & Informatics Librarian
University of Iowa Libraries
Collaboration across Libraries, Division of Sponsored Programs, IT Services, and Iowa Informatics Initiative

Library guide

Collaborative consulting

Workshops, in-class presentations, guest speaker events
Workshops in 2015

- **Summer 2015**
  - 1.5 hour
  - 4 identical sessions
  - Total attendees: 48
  - 24 from Libraries, 12 from DSP, 7 from ITS, and 4 from Physics & Astronomy

- **Fall 2015**
  - 1.5 hour
  - 5 identical sessions
  - Total attendees: 26
  - 13 students, 11 staff and 2 faculty
In-class Presentations

- 50 min
- 3 presentations for CBE graduate students from Fall 2015- Spring 2016
  - Engineering Ethics (47 Enrollments)
  - Intro to Lit Review & Proposal Writing (8 Enrollments)
  - Seminar in Chemical & Biochemical Engr (26 Enrollments)
In-class Presentations - Content

- Animation video
- Data lifecycle, best practices, examples and resources for
  - Organization – folder structure, file naming conventions etc.
  - Documentation – README file, data dictionaries etc.
  - Data storage – ITS storage options, 3-2-1 backup rule etc.
  - Sharing – Data repositories
- Legal & ethical considerations
What’s ahead

- Continue faculty outreach
- Extend data management training to more graduate students
- Online tutorials
DATA SKILLS FOR BUSINESS STUDENTS

Heather Howard
Business Information Specialist
Purdue University
@hidingheather
WHAT DATA ARE BUSINESS STUDENTS USING / CREATING?

• Proprietary data from companies
• Government data sets
• Primary market research

Don’t Need:
• Full Data Management Plan

Do Need:
• File Naming Conventions
• File Sharing Protocols
• Security & Backup
• Preservation Plan
• How is it being stored?
• Who has access?
• How are you ensuring you meet requirement of Non-Disclosure Agreement?
• What about your Data Purchase Agreement?
• How long will you keep the data when you are done with research?
• What was the methodology used to collect the data? Quality? Origin?
Primer Market Research

- How are you collecting data?
- How are you protecting identifiable data?
- What file naming structure are you using?
- How are you documenting data information?
- How are you sharing data within your group?
- How are you securing and backing up your data?
- What are your plans for data retention?
Data Sharing Plan

• What data will be produced?
• How will the data be organized, documented, shared and disseminated?
• Who will take responsibility for carrying this out?
• When will these activities take place?

File Naming/Documentation

• File Naming Convention – How many components do you need? Use meaningful abbreviations.
  • Howard_Survey1 Vs 20160828_MKTProject_MGMT324_Howard_v2-01
• Document Your Decisions
• What / How / Why / When / Where / Who?
Security/Backup & Preservation

Think about:

• Network security
• Physical security
• Computer systems & files
• Backup 3-2-1 Rule
• File formats for long term access
• Metadata standards
• Copyright, privacy, confidentiality
• Repositories
DATA GOES TO THE DOGS

presented by Rebecca Orozco

on behalf of KU Libraries Data Cross Functional Initiative:
Jamene Brooks-Kieffer, Rhonda Houser, and Xan Wendel
THE DATASET (n = 12):
1. README
2. SURVEYS
3. PICTURES
4. SPREADSHEET
BigBlue.png
Chilly Jack.jpg
Final, Final Data & Survey.docx
foxhound.jpg
last survey.docx
nature & dog.jpg
Pit Survey.docx
Pit.jpg
ReadMe.txt
Small pit.jpg
Spot.jpg
Super good Data.xlsx
The Raw stuff.xlsx

09PitTerrierSitting.jpg
09PitTerrierStanding.jpg
09PitTerrierSurvey.docx
10FoxhoundMixSitting.jpg
10FoxhoundMixStanding.jpg
10FoxhoundMixSurvey.docx
12ChihuahuaJackMixSitting.jpg
12ChihuahuaJackMixStanding.jpg
12ChihuahuaJackMixSurvey.docx
BlueElephant.png
DogDataCleaned.xlsx
DogDataRaw.xlsx
ReadMe_DogDataset.txt
File Naming Videos

Basic Principles of Naming Files: Part 1
https://www.youtube.com/watch?v=NHhS5c6brtM

Basic Principles of Naming Files: Part 2
https://www.youtube.com/watch?v=mKNfrkWLIS4

Basic Principles of Naming Files: Part 3
https://www.youtube.com/watch?v=jtIHyX7c6i8

File Naming Module
jamenebk@ku.edu
orozco@ku.edu

THANK YOU!
OPEN CURRICULUM FOR OPEN DATA TRAINING

(And a bit about Mozilla)
WHO WE ARE

- When I say Mozilla...
- Keep the Internet a global public resource, open and accessible to all
WHAT WE DO

- Mozilla Leadership Network
- Internet of Things
- Learning
- Internet Policy & Advocacy
- Women & Web Literacy
- Mozilla Science Lab
WHAT THIS IS

- Open Data Training Curriculum
  - Primers
    - Short, textual, learning
  - Instructor Guides
    - Longer, participatory exercises, train-the-trainer

TOPICS
1. Why Open Data
2. How to Open Your Data
3. Sharing Your Data
4. Finding Data for Reuse
5. Using Other People's Data
WHY IT’S OF INTEREST

- Open
- Remixable
  - CC-BY
- Assumes no prior knowledge
- Works well w/ existing resources
- Expanding
- We want to work with you!

FUTURE TOPICS

1. Domain specific
2. Data Visualization
3. Advocacy
4. Privacy & Ethics
5. Code
https://github.com/mozillascience/open-data-training

Stephanie Wright
@shefw /🐱 @stephwright
@MozillaScience
https://science.mozilla.org/
07 OSF in a Classroom / Kiem Ta (Oklahoma State U)

Not available for MDLS archive
The Many Roles of an Institutional Repository

Scholar@UC as teaching tool, research subject and data archive
Use cases about the repository were the sources of data for a class project. Students illustrated stakeholder viewpoints through i* models.

My role –
- Guest lectured in RE class on Scholar@UC – functions, evolution of design
- Introduced Dr. Niu to repository development team
Dr. Niu

- Invited to publish an extended article in associated special issue of the Requirements Engineering Journal Research Paper:

My role –

- Participated in research as part of the sanity check on i* models
Data Archive

• Data Reuse for future research

RE’16 Viewpoint Merging Study Materials  (Generic Work)

My role –
• Recruited Dr. Niu as an early adopter of Scholar@UC
• Worked with Dr. Niu to train graduate students to use the repository
Outcome and References

Library Blog Posts
https://libapps.libraries.uc.edu/liblog/2016/01/scholaruc-goes-to-class/

Video interview with Dr. Niu about the collaboration
https://www.youtube.com/watch?v=Mi-vxve8ZSU

Link to supporting documentation for Research Paper in Scholar
https://scholar.uc.edu/works/generic_works/05741s72s

Dr. Niu’s Website
http://homepages.uc.edu/~niunn/

Link to Conference Agenda
Requirements Engineering Conference

Link to Journal - Requirements Engineering Journal
09 Partnering to Create Repository Infrastructure for Biodiversity Data / Robert McDonald (Indiana U)

Not available for MDLS archive
Game on!: Managing video game data at the University of Utah

Rebekah Cummings, Research Data Management Librarian
J Willard Marriott Library, University of Utah
Midwest Data Librarian Symposium, University of Michigan
October 17-18, 2016
Motivations of the EAE department

- “Erie” - Flagship game of EAE
- Shown by vlogger PewDiePie
- Almost 6 million views on YouTube
- Built for Windows 7, needs to migrate to Windows 10
Sample EAE Wrap Kit

- Executable game
- Source code
- Art / Assets
- Marketing Materials
- Trailer
- One sheet
- PowerPoint to pitch and present
- Previous versions
Data Challenges

- Complex and Proprietary File Formats
  - 1 wrap kit, 4,631 files, 30 file formats
- Metadata – language, platform, engine, acclaim
- Digital Preservation
- Copyright
Developing Technical Infrastructure

- Ubox
- SurveyMonkey
- Rosetta
- Alma
- Wordpress

EAE Wrap Kit Archive - Eae.lib.utah.edu
Future plans - Gaming repository?

Thank you!

Rebekah Cummings
Rebekah.cummings@utah.edu
801-581-7701
@RebekahCummings
Tag Teaming Data Requests:
Librarian Partnerships with the Open Access Button

Chealsye Bowley | @chealsye
Get the articles and data you need with the Open Access Button

Is lack of access to articles and data holding you back?

The next time you can't access the research you need, tell the Open Access Button.

Sign up to begin unlocking articles and data now

Enter your email address

Sign Up

openaccessbutton.org
New Request

http://www.tandfonline.com/doi/full/10.1080/09505431.2016.1151489

This article is already available!

Request the article

Request the data

The Entangling of Problems, Solutions and Markets: On Building a Market for Privacy

10.1080/09505431.2016.1151489

How would getting access to this research help you? This message will be sent to the author.

Save
But how can we get authors to fulfill a request?
But how can we get authors to fulfill a request? Librarians.
Hi, Professor Baah! I heard ewe received a data request. Fleece let’s help you shear your data!
Let’s work together for Open Data.

Get in touch:
@OA_Button | chealsye@openaccessbutton.org | @chealsye
12 Love Your Data 2017 / Heather Coates (Indiana U-Purdue U-Indianapolis)

Not available for MDLS archive