

# Midwest Data Librarian Symposium

## Lightning Talks

***5 minutes - back-to-back - hold questions until the end***

01 Research Data is like a Harmful Algal Bloom /  
Scout Calvert (Michigan State U)

02 Data Services Strategic Planning / Kristin  
Briney (U Wisconsin-Milwaukee)

03 Bringing Data Management to Graduate  
Students / Marina Zhang (U Iowa)

04 Data Management for Business Students /  
Heather Howard (Purdue U)

05 Data goes to the Dogs! / Rebecca Orozco (U  
Kansas)

06 Open Curriculum for Open Data Training /  
Stephanie Wright (Mozilla Foundation)

07 OSF in a Classroom / Kiem Ta (Oklahoma State U)

08 Scholar@UC: Institutional Repository as research  
subject, teaching tool and data archive / Amy  
Koshoffer (U Cincinnati)

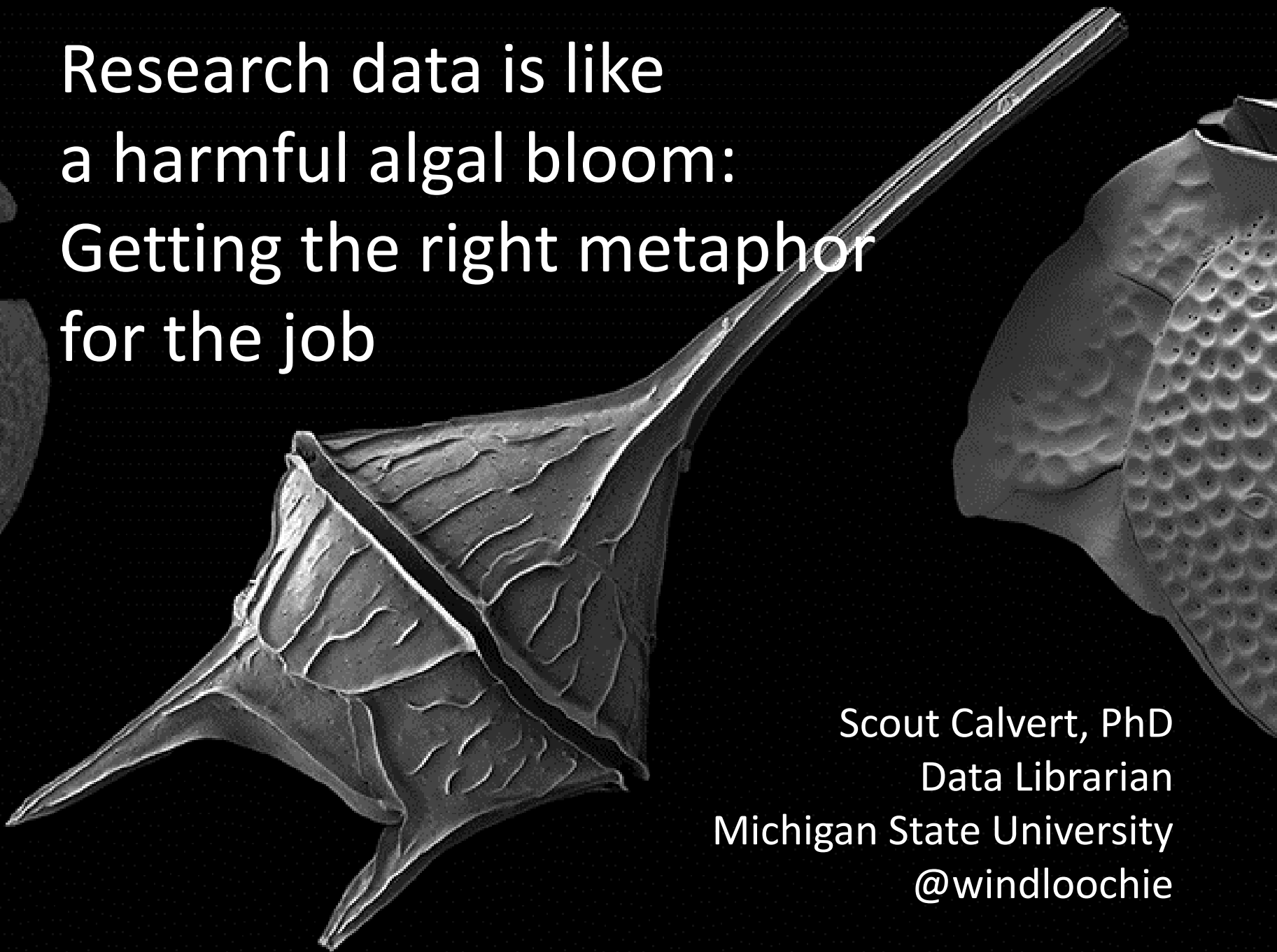
09 Partnering to Create Repository Infrastructure for  
Biodiversity Data / Robert McDonald (Indiana U)

10 Game On!: Managing Video Game Data /  
Rebekah Cummings (U Utah)

11 Tag Teaming Data Requests: Librarian  
Partnerships with the Open Access Button /  
Chealsye Bowley (Florida Gulf Coast U)

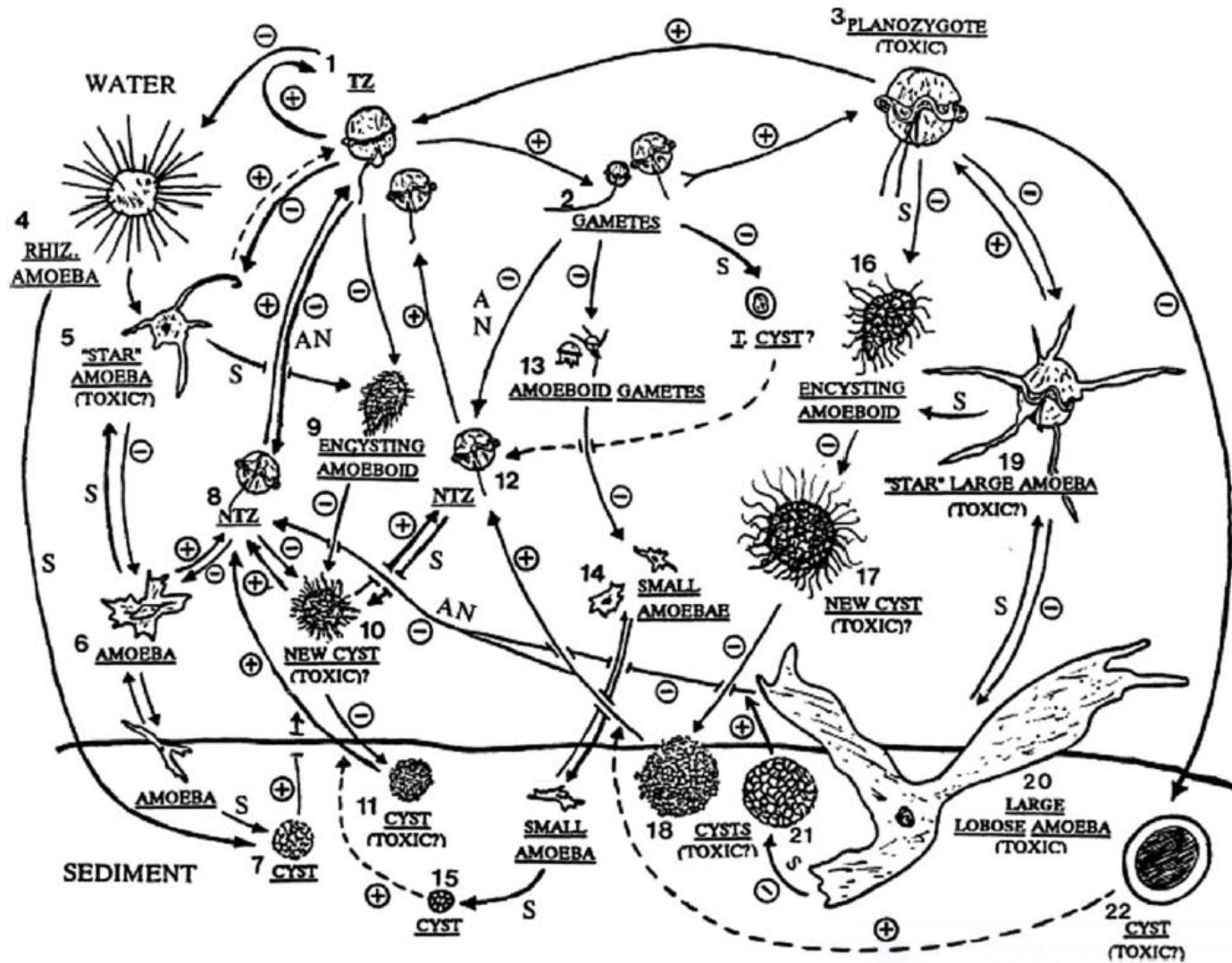
12 Love Your Data 2017 / Heather Coates (Indiana  
U-Purdue U-Indianapolis)

Research data is like  
a harmful algal bloom:  
Getting the right metaphor  
for the job



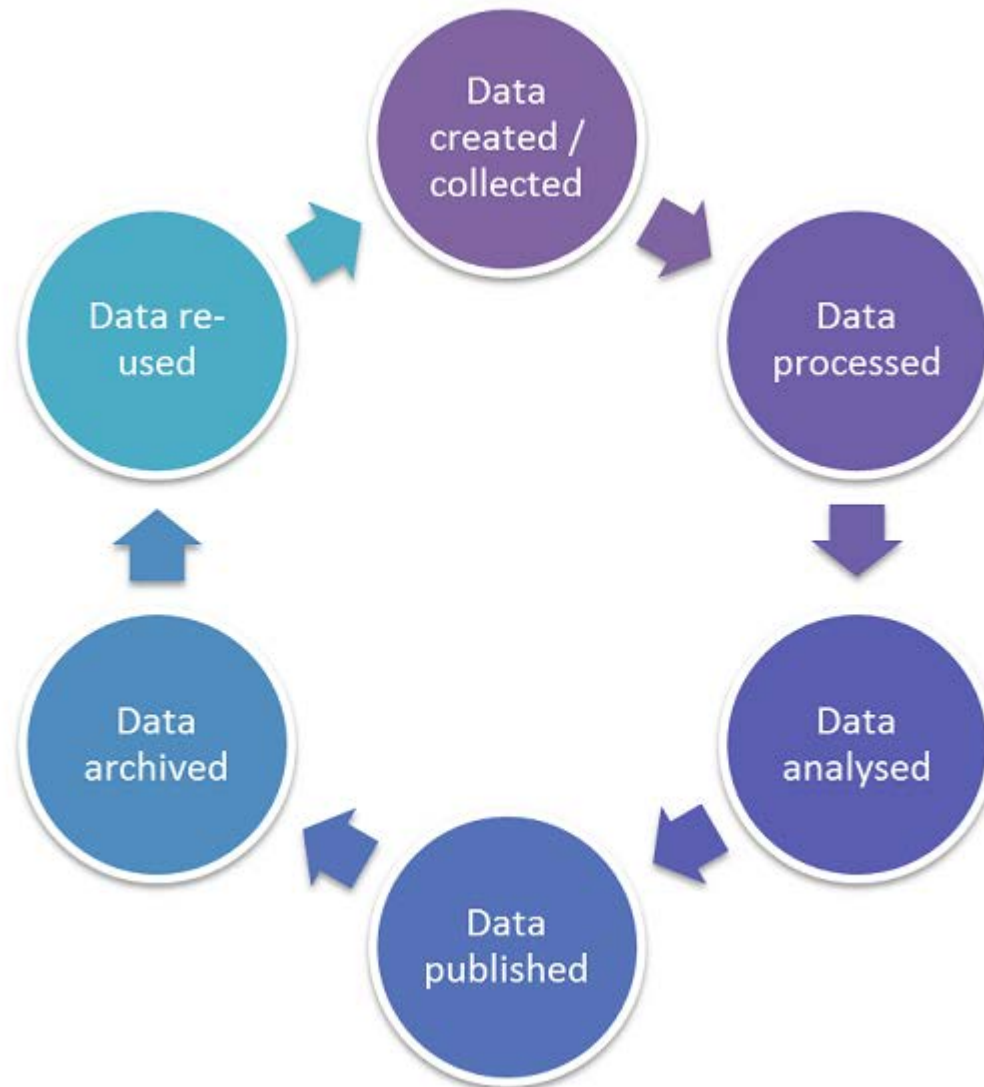
Scout Calvert, PhD  
Data Librarian  
Michigan State University  
@windloochie

# *Pfiesteria piscicida*

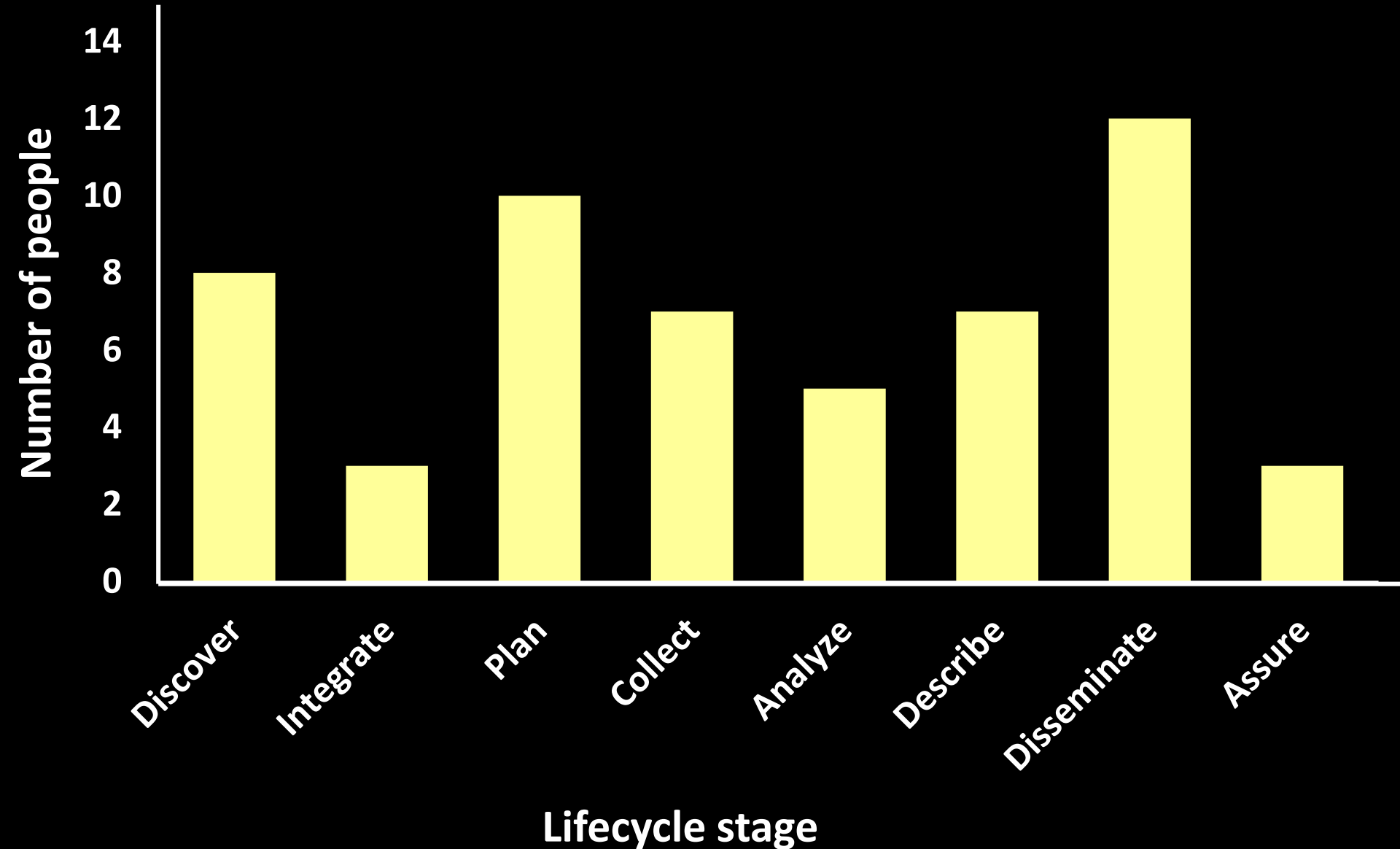


# Research Data Lifecycle?

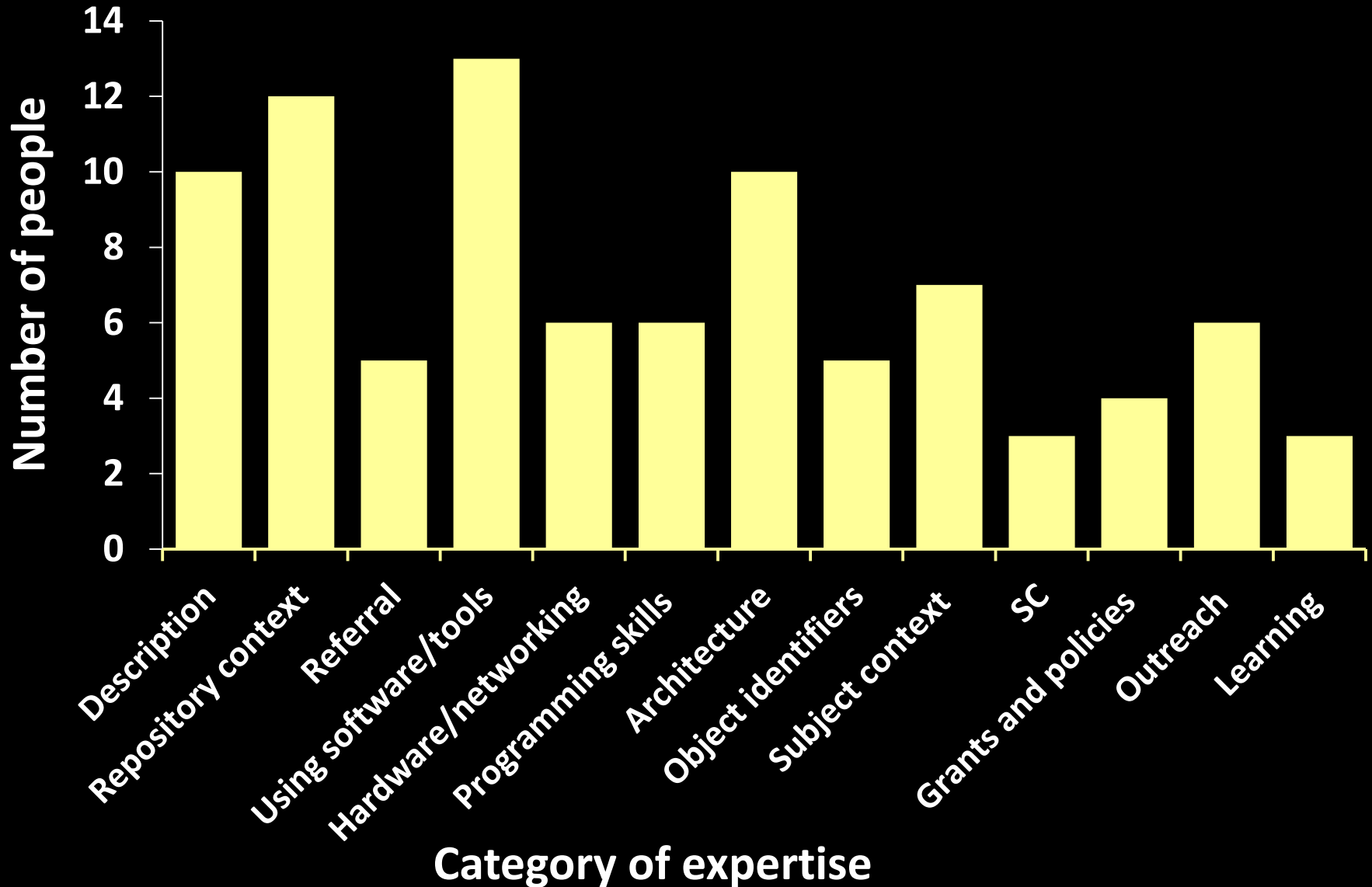
The D  
Lifecy



# Unique Individuals per Stage



# Unique Individuals by Expertise







# Data Services Strategic Planning

Kristin Briney  
University of Wisconsin-Milwaukee



# 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

- Briney, K. “Strategic Planning for Research Data Services” *Bulletin of the Association for Information Science and Technology*, 42 (4), 39-41.  
[https://www.asist.org/files/bulletin/apr-16/RDAP\\_Briney.pdf](https://www.asist.org/files/bulletin/apr-16/RDAP_Briney.pdf)
- Sutton, S., Barber, D., & Whitmire, A. L. (May 30, 2013). Oregon State University Libraries and Press Strategic Agenda for Research Data Services.  
<http://ir.library.oregonstate.edu/xmlui/handle/1957/38794>
- “UWM Data Services Strategic Plan 2016-2018” <http://uwm.edu/libraries/wp-content/uploads/sites/59/2014/02/DataServicesStrategicPlan2016.pdf>



# 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

# Research Data Services @ UI



- ▶ 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

# PROPRIETARY DATA

- 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?

# PRIMARY 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?

# BUSINESS STUDENT DATA LITERACY

## 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?



# BUSINESS STUDENT DATA LITERACY

## 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

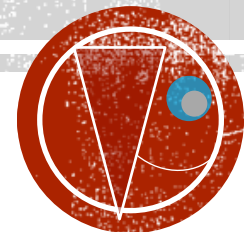


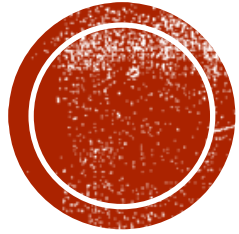
# DATA GOES TO THE DOGS

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



# SURVEY DATA

1. UNIQUE IDENTIFIERS
2. INSTITUTIONAL REVIEW BOARD LANGUAGE
3. IMAGES
4. DOG STATISTICS
5. OPEN-ENDED QUESTIONS
6. OWNER DEMOGRAPHIC




# IMAGE DATA


















# MODULE ACTIVITY


OneDrive 

+ New ▾ Upload Share Get a link

Files > MDLS\_20161014 > MDL

✓ ↑ Name














-  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

OneDrive 

+ New ▾ Upload Share Get a link

Files > MDLS\_20161014 > MDL

✓ ↑ Name

-  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=jtIHx7c6i8>

## File Naming Module

[jamenebk@ku.edu](mailto:jamenebk@ku.edu)

[orozco@ku.edu](mailto: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



mozilla

Science Lab

mozilla

[https://github.com/  
mozillascience/open-data-training](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

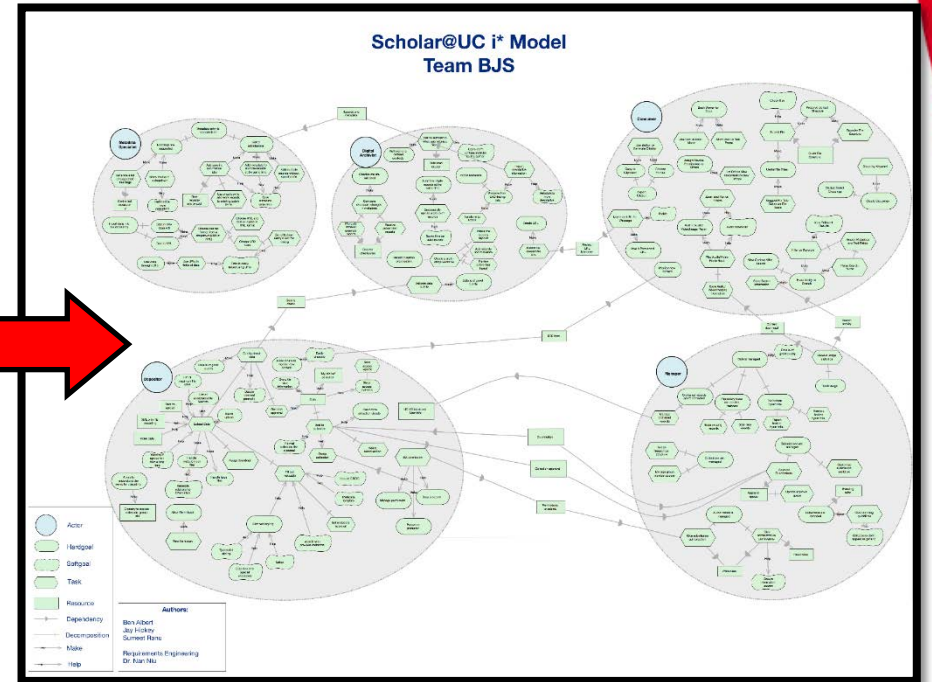
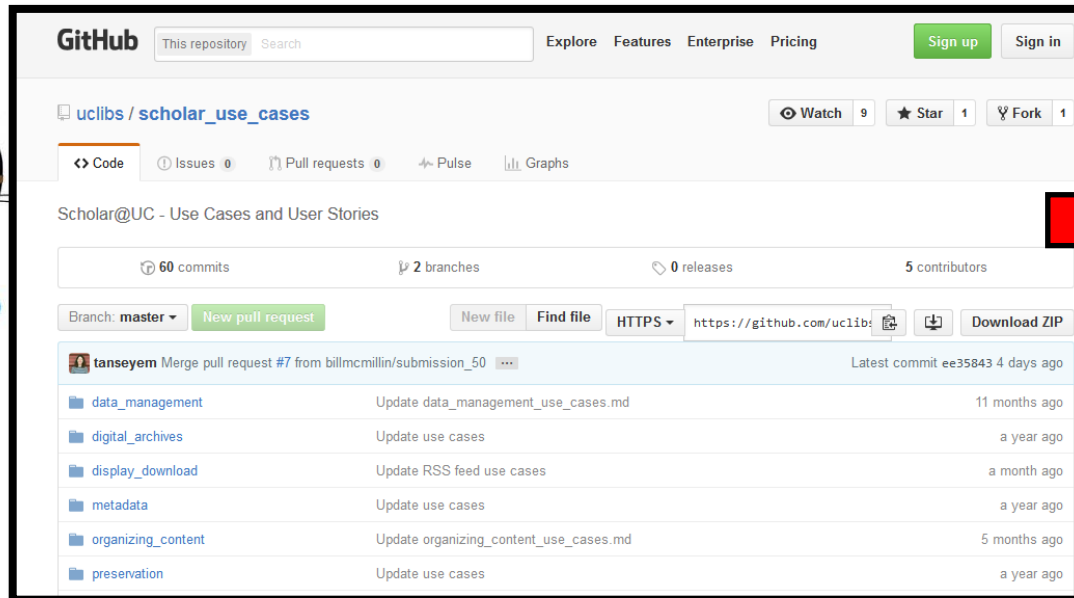
# The Many Roles of an Institutional Repository

Scholar@UC as teaching tool, research subject and data archive



# Teaching Tool

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



# Research Tool

Conference Paper:

*Advancing Repeated Research in Requirements Engineering:  
A Theoretical Replication of Viewpoint Merging*



Dr. Niu accepting Best Research Paper Award  
24th IEEE International Requirements Engineering Conference  
September 2016 - Beijing, China



Dr. Niu

- Invited to Invited to publish an extended article in associated special issue of the [Requirements Engineering Journal](#) Research Paper:

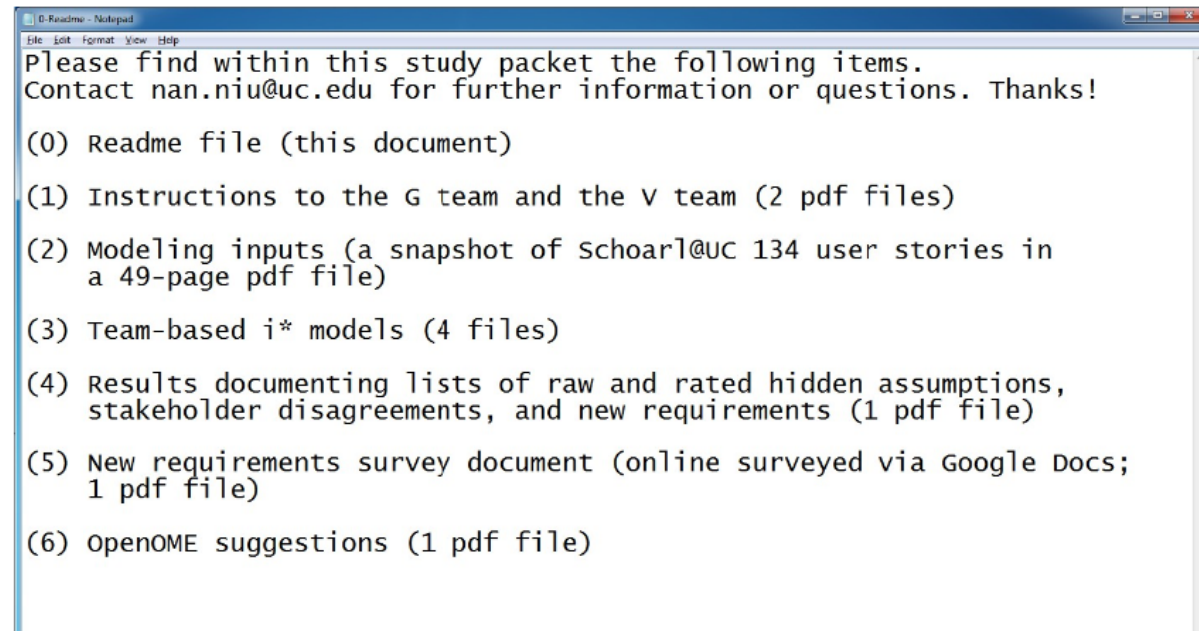
My role –

- 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)



```
0-Readme - Notepad
File Edit Format View Help
Please find within this study packet the following items.
Contact nan.niu@uc.edu for further information or questions. Thanks!

(0) Readme file (this document)
(1) Instructions to the G team and the V team (2 pdf files)
(2) Modeling inputs (a snapshot of schoarl@UC 134 user stories in
a 49-page pdf file)
(3) Team-based i* models (4 files)
(4) Results documenting lists of raw and rated hidden assumptions,
stakeholder disagreements, and new requirements (1 pdf file)
(5) New requirements survey document (online surveyed via Google Docs;
1 pdf file)
(6) OpenOME suggestions (1 pdf file)
```

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

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Library Blog Posts

<https://libapps.libraries.uc.edu/liblog/2016/01/scholaruc-goes-to-class/>

<http://libapps.libraries.uc.edu/liblog/2016/09/paper-featuring-scholaruc-gets-best-research-paper-award/>

Video interview with Dr. Niu about the collaboration

<https://www.youtube.com/watch?v=Mivxve8ZSU>

Link to supporting documentation for Research Paper in Scholar

[https://scholar.uc.edu/works/generic\\_works/05741s72s](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

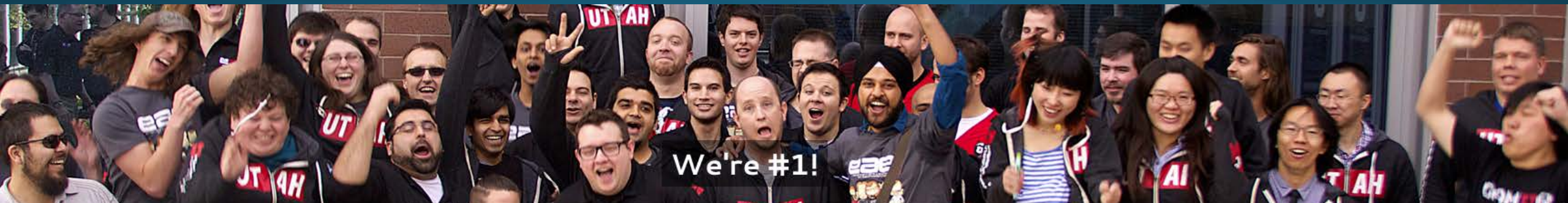
# Game on!: Managing video game data at the University of Utah

Rebekah Cummings, Research Data Management Librarian

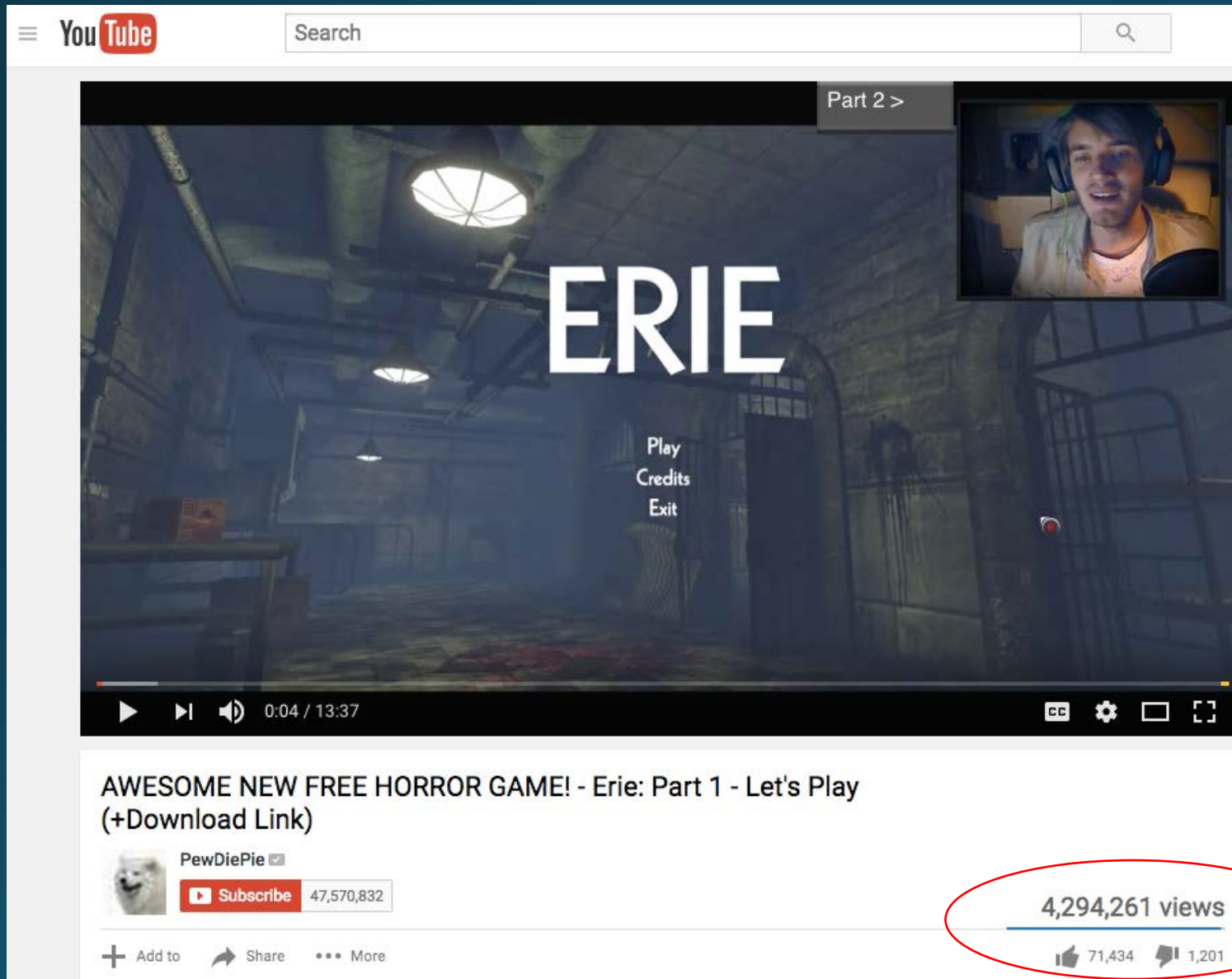
J Willard Marriott Library, University of Utah

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

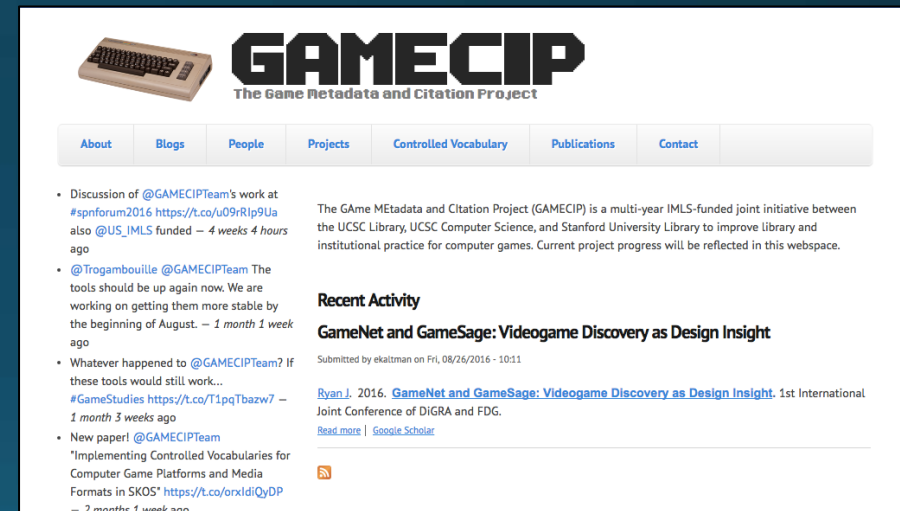
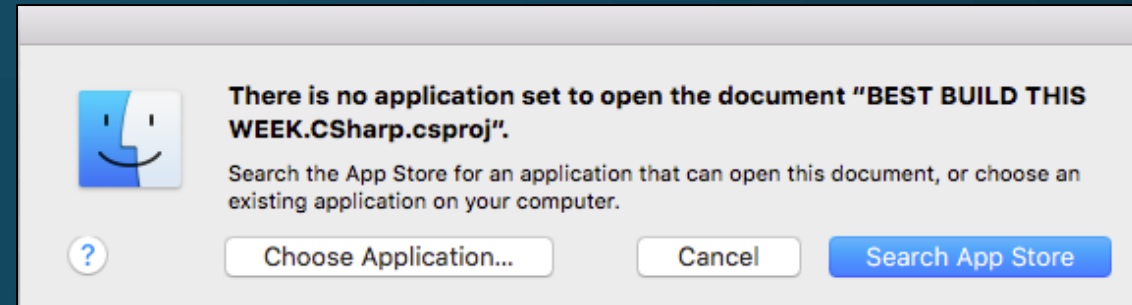
# Sample EAE Wrap Kit



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

# Data Challenges

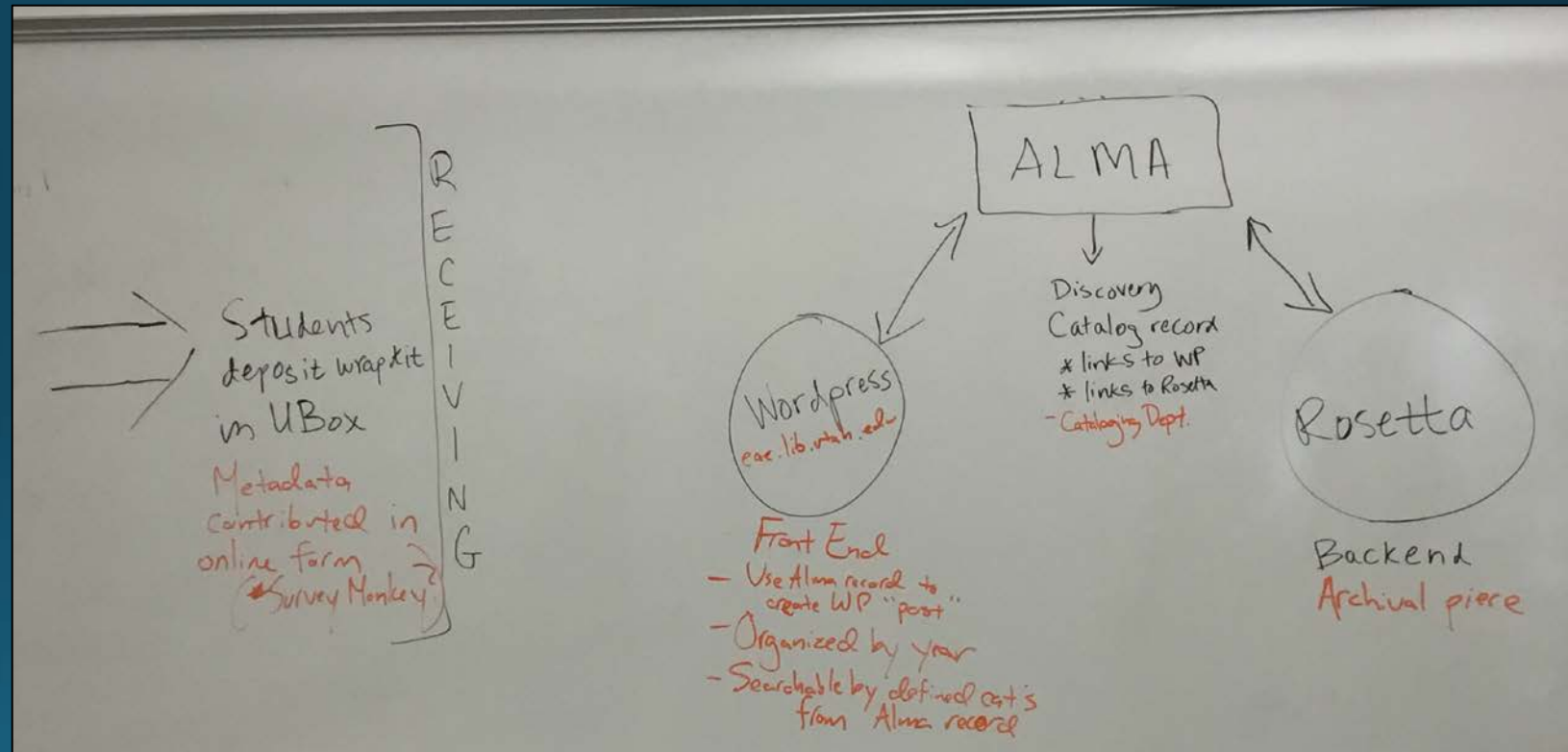
- Complex and Proprietary File Formats
  - 1 wrap kit, 4,631 files, 30 file formats
- Metadata – language, platform, engine, acclaim
- Digital Preservation
- Copyright





# Developing Technical Infrastructure

- Ubox
- SurveyMonkey
- Rosetta
- Alma
- Wordpress



# Future plans - Gaming repository?



Thank you!

Rebekah Cummings

[Rebekah.cummings@utah.edu](mailto:Rebekah.cummings@utah.edu)

801-581-7701

@RebekahCummings

# Tag Teaming Data Requests:

## Librarian Partnerships with the Open Access Button





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,

Sign up to begin unlocking articles and data now

Enter your email address

Sign Up

[openaccessbutton.org](https://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

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12 Love Your Data 2017 /  
Heather Coates (Indiana U-Purdue U-  
Indianapolis)

Not available for MDLS archive