

## **RICE UNIVERSITY SURVEY:** DATA PRESERVATION AND MANAGEMENT

AKA SA



Alisa Rod

May 12, 2015

## ITHAKA

ITHAKA is a not-for-profit organization that helps the academic community use digital technologies to preserve the scholarly record and to advance research and teaching in sustainable ways.



JSTOR is a not-for-profit digital library of academic journals, books, and primary sources.



Ithaka S+R is a not-for-profit research and consulting service that helps academic, cultural, and publishing communities thrive in the technological and economics context of the 21<sup>st</sup> Century.



Portico is a not-for-profit preservation service for digital publications, including electronic journals, books, and historical collections.

## LIBRARY ASSESSMENT?

## What are we trying to accomplish?

- » Determine user satisfaction?
- » Understand effectiveness of existing services?
- » Analyze the extent to which we meet user needs?



## DISCUSSION

»What do you think these results mean?

»What else does the library and the university need to know?

»What should come next?

## RICE FACULTY & STUDENT SURVEYS

## RICE FACULTY SURVEY MODULES

Participants can run a standard national questionnaire, or construct a questionnaire from our thematic modules:

- » Discovery
- » Material types
- » Formats
- » Access
- » Digital research activities
- » Research topics and practices
- » Data management and preservation
- » Research dissemination
- » Scholarly communications services

- » Student research skills
- » Undergraduate instruction
- » Online learning and MOOCs
- » Graduate instruction
- » The role of the library
- » Library market research
- » Space planning
- » Serving clinicians and health scientists

# PURPOSE & COVERAGE

To help academic libraries plan for the right strategies and future services in support of research, teaching, and students.

#### Faculty Members

- » Research practices
- » Research support needs
- » Instructional practices and student learning
- » Collections, formats, and discovery
- »Aligning your library

#### **Students**

- » Higher education objectives
- » Academics and coursework
- » Research practices
- » Collections, formats, and discovery
- » Library spaces
- » Aligning your library

## METHODOLOGY

#### Faculty Survey

- » 1,274 faculty members invited to take the survey
- » Personalized invitations and links sent via Ithaka survey platform
- » Survey live from 3/17 to 4/8
- » 2 reminders sent before the close of the survey
- » 164 completed responses received (13% response rate)

#### Student Survey

- » 6,751 graduate and undergraduate students invited to take the survey
- » Personalized invitations and links sent via Ithaka platform
- » Survey live from 3/17 to 4/8
- » 2 reminders sent before the close of the survey
- » 1,817 completed responses received (27% response rate)

#### Respondents' Disciplinary Groupings (Faculty)

Note: Based on self-identified disciplinary/school affiliations.



#### "What is your rank?"



Source for population numbers: http://www.oir.rice.edu/Factb ook/Faculty\_and\_Staff/Fall\_2 014\_Faculty\_Headcount/



"Do you think of yourself primarily as a researcher, primarily as a teacher, or somewhere in between?"

"Which of the following degrees are you pursuing at this college or university? Please select all that apply or select "N/A" if you are not enrolled in a degree granting program:"

Master's and/or professional degree (such as a J.D., M.A., M.B.A., M.D., etc.)

Undergraduate degree (such as a Bachelor of Arts, Bachelor of Science, Bachelor of Music, etc.)







## DATA MANAGEMENT AND PRESERVATION

"In the course of your research, you may build up collections of scientific, qualitative, quantitative, or primary source research data. Do you accumulate any of these types of data in your research?"



"In the course of your research, you may build up collections of scientific, qualitative, quantitative, or primary source research data. Do you accumulate any of these types of data in your research?"



"In the course of your research, you may build up collections of scientific, qualitative, quantitative, or primary source research data. Do you accumulate any of these types of data in your research?"



*"In the course of your"* research, you may build up digital collections of image or media research data, either by personally digitizing these materials or by downloading these materials from other sources. Do you accumulate any of these types of data in your research?



*"In the course of your"* research, you may build up digital collections of image or media research data, either by personally digitizing these materials or by downloading these materials from other sources. Do you accumulate any of these types of data in your research?



*"In the course of your"* research, you may build up digital collections of image or media research data, either by personally digitizing these materials or by downloading these materials from other sources. Do you accumulate any of these types of data in your research?



	Data, media, or images that I collect mysel						
<i>"How important to your research are the following types of data?"</i>	Data, media, or images collected by other researchers in my field at my college or university						
Response scale:	Data, media, or images collected by researchers in my field at other institutions						
10 point scale, 10 = "Extremely important" and 1 = "Not at all important"; Percent of respondents selecting 8-10	Data, media, or images that I access through my college or university library's subscription to an online repository						
	Data, media, or images that are freely available online						
	Data, media, or images collected by other researchers outside my field						
	Other (Please explain):						
		0%	20%	40%	60%	80%	100%

<i>"How important to your research are the following types of data?"</i>	Data, media, or images that I collect	myself						
	Data, media, or images collected by other resea in my field at my college or university	archers			-			
Response scale: 10 point scale, 10 = "Extremely important" and 1	Data, media, or images collected by researchers field at other institutions	rs in my						
= "Not at all important"; Percent of respondents selecting 8-10, by discipline	Data, media, or images that I access through college or university library's subscription to an repository							
	Data, media, or images that are freely available	e online						
	Data, media, or images collected by other resea outside my field	archers						
			0%	20%	40%	60%	80%	100%
	Engineering Humanities	■ Nat	ural Sciences	Social	I Sciences			

<i>"How important to your</i>	Data, media, or images that I collect myse	lf					
research are the following types of data?"	Data, media, or images collected by other researcher in my field at my college or university	rs					
Response scale: 10 point scale, 10 = "Extremely important" and 1	Data, media, or images collected by researchers in m field at other institutions	iy					
= "Not at all important"; Percent of respondents selecting 8-10	Data, media, or images that I access through my college or university library's subscription to an onlir repository	ie					
	Data, media, or images that are freely available onlir	le					
	Data, media, or images collected by other researcher outside my field	rs					
		0%	20%	40%	60%	80%	100

Tenured

Tenure-track and Non-tenure-track

*"When you think about"* managing or preserving the research data, media, or images that you collect, how important are each of the following features or how important would each of the following *features be? Use the scales* below to rate each item 10 to 1, where 10 equals "Extremely important" and 1 equals "Not at all important"."

### The ability to update existing datasets with new data, media, or images

The ability to merge entire datasets together to create new datasets

The ability to customize permissions or restrictions for other researchers to use my data, media, or images

The ability to make my data, media, or images freely available to the public

The ability to store multiple versions of my data, media, or images in the same place (such as raw data, normalized data, recoded data, restricted use data, etc.)

The ability to store my data, media, or images with supplemental materials (such as codebooks, questionnaires, interview transcripts, software code, etc.)

The ability to track academic research citing my data, media, or images

The ability to store my data, media, or images with my corresponding published outputs (such as monographs, journal articles, etc.)



80%

100%

Response scale: 10 point scale, 10 = "Extremely important" and 1 = "Not at all important"; percent of respondents selecting 8 - 10

*"When you think about"* managing or preserving the research data, media, or images that you collect, how important are each of the following features or how important would each of the following features be? Use the scales below to rate each item 10 to 1, where 10 equals "Extremely important" and 1 equals "Not at all important"."

#### Response scale:

10 point scale, 10 = "Extremely important" and 1 = "Not at all important"; percent of respondents selecting 8 - 10, by discipline The ability to update existing datasets with new data, media, or images

The ability to merge entire datasets together to create new datasets

The ability to customize permissions or restrictions for other researchers to use my data, media, or images

The ability to make my data, media, or images freely available to the public

The ability to store multiple versions of my data, media, or images in the same place (such as raw data, normalized data, recoded data, restricted use data, etc.)

The ability to store my data, media, or images with supplemental materials (such as codebooks, questionnaires, interview transcripts, software code, etc.)

The ability to track academic research citing my data, media, or images

The ability to store my data, media, or images with my corresponding published outputs (such as monographs, journal articles, etc.)



100%

*"When you think about"* managing or preserving the research data, media, or images that you collect, how important are each of the following features or how important would each of the following features be? Use the scales below to rate each item 10 to 1, where 10 equals "Extremely important" and 1 equals "Not at all important"."

Response scale: 10 point scale, 10 = "Extremely important" and 1 = "Not at all important"; percent of respondents selecting 8 – 10 The ability to update existing datasets with new data, media, or images

The ability to merge entire datasets together to create new datasets

The ability to customize permissions or restrictions for other researchers to use my data, media, or images

The ability to make my data, media, or images freely available to the public

The ability to store multiple versions of my data, media, or images in the same place (such as raw data, normalized data, recoded data, restricted use data, etc.)

The ability to store my data, media, or images with supplemental materials (such as codebooks, questionnaires, interview transcripts, software code, etc.)

The ability to track academic research citing my data, media, or images

The ability to store my data, media, or images with my corresponding published outputs (such as monographs, journal articles, etc.)



*"Please use the 10 to 1"* scales below to indicate how well each statement below describes your point of view, where a 10 equals "Extremely well" and a 1 equals "Not at all well." You may pick any number on the scale. The higher the number, the better you think the statement describes your point of view. The lower the number, the less you think the statement describes your point of view."

Response scale:

selecting 8 - 10

10 point scale, 10 = "Extremely well" and 1 = "Not at all well";

percent of respondents

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on my own computer or computers When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on a cloud storage service (such as Google Drive, Dropbox, Flickr, etc.) I find it difficult to organize or manage my data, media, or images My college or university library manages or organizes my data, media, or images on my behalf In the course of my research, I often work with my data, media, or images on a non-networked device In the course of my research, I often work with my data, media, or images on a wireless mobile device I find it difficult to preserve or store my data, media, or images for the long-term 0% 20% 40% 60% 80%

100%

"Please use the 10 to 1 scales below to indicate how well each statement below describes your point of view, where a 10 equals "Extremely well" and a 1 equals "Not at all well." You may pick any number on the scale. The higher the number, the better you think the statement describes your point of view. The lower the number, the less you think the statement describes your point of view."

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on my own computer or computers

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on a cloud storage service (such as Google Drive, Dropbox, Flickr, etc.)

I find it difficult to organize or manage my data, media, or images

My college or university library manages or organizes my data, media, or images on my behalf

In the course of my research, I often work with my data, media, or images on a non-networked device

In the course of my research, I often work with my data, media, or images on a wireless mobile device

I find it difficult to preserve or store my data, media, or images for the long-term





10 point scale, 10 = "Extremely well" and 1 = "Not at all well"; percent of respondents selecting 8 – 10, by discipline



"Please use the 10 to 1 scales below to indicate how well each statement below describes your point of view, where a 10 equals "Extremely well" and a 1 equals "Not at all well." You may pick any number on the scale. The higher the number, the better you think the statement describes your point of view. The lower the number, the less you think the statement describes your point of view."

Response scale: 10 point scale, 10 = "Extremely well" and 1 = "Not at all well"; percent of respondents selecting 8 – 10 When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on my own computer or computers

When I am in the process of collecting data, media, or images for my research, I often organize or manage these data on a cloud storage service (such as Google Drive, Dropbox, Flickr, etc.)

I find it difficult to organize or manage my data, media, or images

My college or university library manages or organizes my data, media, or images on my behalf

In the course of my research, I often work with my data, media, or images on a non-networked device

In the course of my research, I often work with my data, media, or images on a wireless mobile device

I find it difficult to preserve or store my data, media, or images for the long-term



100%

*"Please use the scale"* below to rate from 10 to 1 how valuable you would find each of the following possible sources of support for managing or preserving research data, media, or images or how valuable you do find each of the following sources of support for managing or preserving research data, media, or images"

Response scale: 10 point scale, 10 = "Extremely valuable" and 1 = "Not at all valuable"; percent of respondents selecting 8 - 10



*"Please use the scale"* below to rate from 10 to 1 how valuable you would find each of the following possible sources of support for managing or preserving research data, media, or images or how valuable you do find each of the following sources of support for managing or preserving research data, media, or images"

Response scale: 10 point scale, 10 = "Extremely valuable" and 1 = "Not at all valuable"; percent of respondents selecting 8 – 10, by discipline



*"Please use the scale"* below to rate from 10 to 1 how valuable you would find each of the following possible sources of support for managing or preserving research data, media, or images or how valuable you do find each of the following sources of support for managing or preserving research data, media, or images"

Response scale: 10 point scale, 10 = "Extremely valuable" and 1 = "Not at all valuable"; percent of respondents selecting 8 – 10



"If these collections or sets of research data are preserved following the conclusion of the projects, what methods are used to preserve them?" I preserve these materials myself, using commercially or freely available software or services

I preserve these materials myself in a repository made available by my institution or another type of online repository

My campus or university library preserves these materials on my behalf

A publisher preserves these materials on my behalf alongside the final research output

These materials are generally not preserved following the conclusion of a project



20%

0%

"If these collections or sets of research data are preserved following the conclusion of the projects, what methods are used to preserve them?" I preserve these materials myself, using commercially or freely available software or services

I preserve these materials myself in a repository made available by my institution or another type of online repository

My campus or university library preserves these materials on my behalf

A publisher preserves these materials on my behalf alongside the final research output

These materials are generally not preserved following the conclusion of a project

Social Sciences

Engineering
Humanities

Natural Sciences



0%

20%

40%

60%

80%

100%

"If these collections or sets of research data are preserved following the conclusion of the projects, what methods are used to preserve them?" I preserve these materials myself, using commercially or freely available software or services

I preserve these materials myself in a repository made available by my institution or another type of online repository

My campus or university library preserves these materials on my behalf

A publisher preserves these materials on my behalf alongside the final research output

These materials are generally not preserved following the conclusion of a project
## RICE STUDENT SURVEY 2015

"In the courses you are currently taking, how often are you assigned each of the following types of work?" (Undergraduates)

Response scale: Regularly (4); Sometimes (3); Rarely (2); Never (1). Graph displaying responses indicating "Regularly"



"In the courses you are *currently taking, how* often are you assigned each of the following types of work?"

**Response scale:** 

displaying responses indicating "Regularly"





"In the courses you are currently taking, how often do you use each of the following types of sources of information for your coursework or research projects?"

Response scale: Regularly (4); Sometimes (3); Rarely (2); Never (1). Graph displaying responses indicating "Regularly"

**Readers or course packs** E-books, E-book chapters, or electronic versions of novels (not including E-book versions of textbooks) Electronic or E-book versions of textbooks or textbook chapters Books, book chapters, or novels that are not textbooks (not including E-book versions) Unpublished works or manuscripts (such as planning documents, agency reports, white papers, etc.) Video, audio or other multimedia materials Collection(s) of historical documents or records (such as rare books, hand-written letters or diaries, artifacts, etc.) Other study resources (such as notes, flash cards, study guides or handouts, etc.) Online educational resources that are not videos (such as Wikipedia, study guides, etc.) Journal articles or other academic articles Textbooks or textbook chapters (not including E-book versions) Images or scans of images Data or datasets Online video tutorials (such as videos available on Khan Academy, Lynda.com, YouTube, etc.) News or magazine articles 40% 20% 60% 80% 0%

100%

Ph.D. Master's/Prof

### THE ROLE OF THE LIBRARY

"Have you ever attended a session, class, or section on how to find information for your coursework or research projects using your campus library's resources?"

Response scale: Yes; No. Chart displays percent of respondents selecting "Yes."





Undergraduate students

"Please read the following statements and tell us whether you strongly agree with the statement, agree, somewhat agree, neither agree nor disagree, somewhat disagree, disagree, or strongly disagree."

skills and find, access, and make use of books, articles, data, images, and other resources The main responsibility of my college or university library should be helping me access print or electronic versions of books, articles, data, images, and other resources that I may need for my coursework or research projects My instructors help me develop the research skills to find and use academic sources of information for my coursework or research projects Ph.D. The library serves as a starting point for locating information, resources, or citations that I use for my coursework or research projects Master's/Prof Undergraduate Campus librarians or library staff help me develop the research skills to find and use academic sources of information for my coursework or research projects

20%

0%

40%

Students

80%

100%

60%

The main responsibility of my college or university library should be

supporting student learning by helping students to develop research

**Response scale:** 

Strongly Agree (7); Agree (6); Somewhat Agree (5); Neither Agree nor Disagree (4); Somewhat Disagree (3); Disagree (2); Strongly Disagree (1). Graph is displaying "Agree" and "Strongly Agree"

#### "How useful is it to you personally that your campus library provides The library helps students develop research skills each of the services...?" The library supports and facilitates my learning or studying activities Response scale: Not Useful at All; Not too Useful; Somewhat Useful; Very Useful; Extremely The library pays for resources that I need for my coursework or Useful. Graph displays research projects, from academic journals to books to electronic "Extremely Useful" and "Very databases Useful" combined for each category of student The library stores, organizes, and keeps track of books, articles, data, images, or other resources ■ Ph.D. 0% 20% 40% 80% 60% 100% Master's/Prof

Undergraduate Students

"How useful is it to you personally that your campus librarians or library staff provide each of the services...?"

Librarians or library staff provide support in learning and using online search engines or databases Librarians or library staff provide help for learning about technological, digital, or online tools for coursework or research projects Librarians or library staff provide assistance or guidance with managing data or datasets Librarians or library staff provide assistance or guidance on using Ph.D. information ethically (such as to avoid plagiarism) Master's/Prof Librarians or library staff provide assistance or guidance on managing citations of books, articles, data, images, or websites for Undergraduate coursework or research projects (such as for a bibliography, works students cited, or index section) Librarians or library staff provide assistance or guidance in finding sources for coursework or research projects (such as books, articles, databases, websites, etc.) 0% 20% 40% 60% 80% 100%

Response scale: Not Useful at All; Not too Useful; Somewhat Useful; Very Useful; Extremely Useful. Graph displays "Extremely Useful" and "Very

Useful" combined for each

category of student

### **ITHAKA S+R**

# THANK YOU

Alisa Rod @AlisaBethRod Alisa.rod@ithaka.org

Reports and issue briefs: www.sr.ithaka.org

