Update on Rice Digital Scholarship Archive Activities

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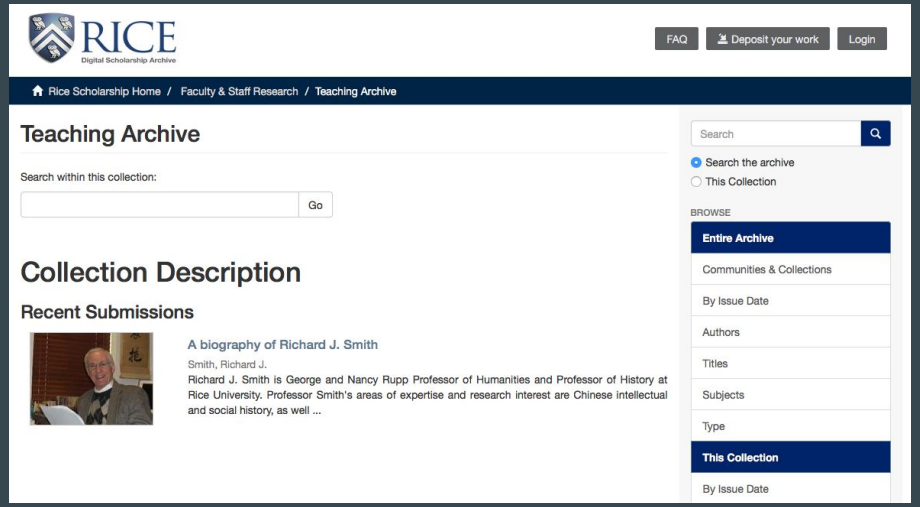
Basic Information about RDSA

- **Total items in RDSA:** 53,958
- **Breakdown by content type:**
  - 56% Text
  - 39% Image
  - 5% Other
- **Total pageviews** (3/24/2015-3/24/2016): 476,708
- **Popular collections**:
  - ETDs
  - University Archives and Rice History
  - Faculty & Staff Research

New Collections

- Rice Teaching Archive
  - Collaboration with CTE
  - Initially features teaching materials from:
    - Dr. Rich Smith
    - Dr. Dennis Huston
- Undergraduate Theses
  - Provide access to undergrad research
  - Pilot project with history department



Support for Rice Historical Review

- New undergrad history journal
- To be published online & in print
- Will be archived in RDSA

RICE HISTORICAL REVIEW

ABOUT US CURRENT ISSUE SUBMISSIONS ARCHIVE CONTACT US

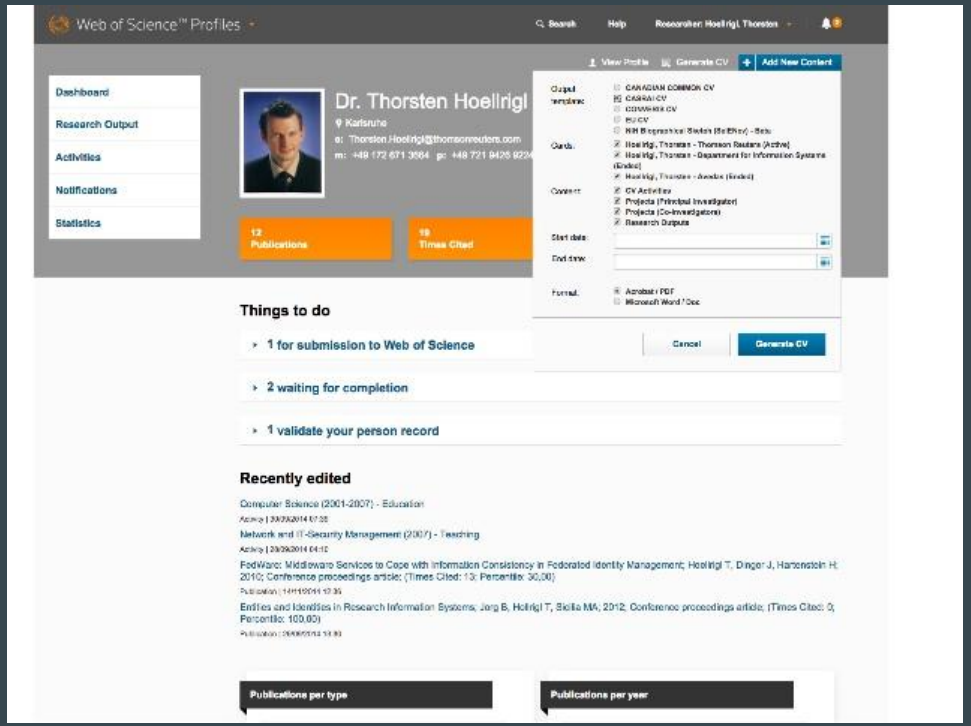
Our Mission

This journal seeks to showcase outstanding, historically-focused undergraduate papers at Rice University.

Editorial Board

Coming Soon: Pushing Publications from New Faculty Information System (Converis)

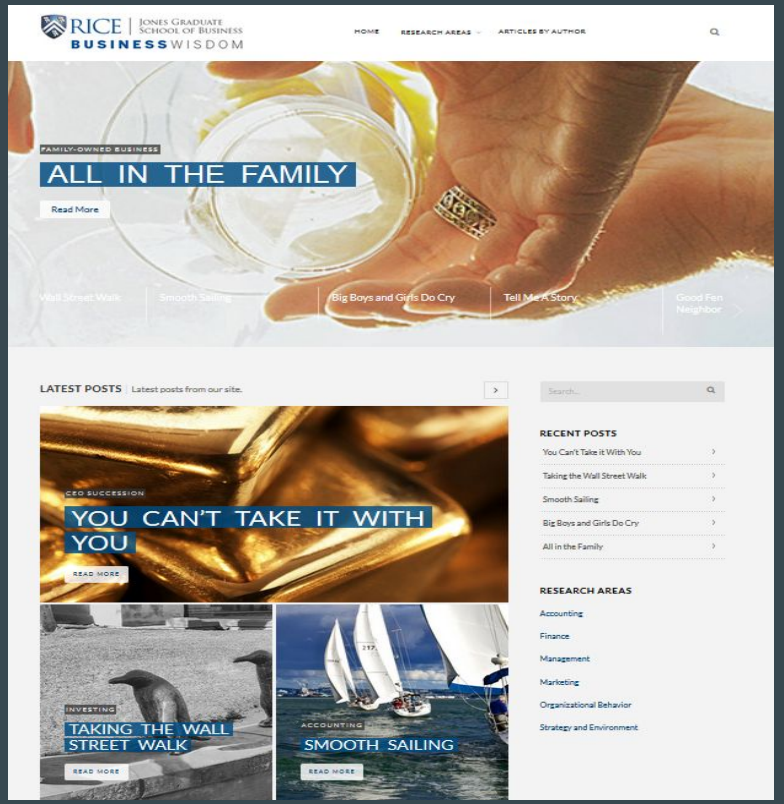
- Library a partner, particularly for publications
- Simplifies workflows for faculty adding articles to RDSA



http://www.slideshare.net/ORCIDSlides/converis

Jones School Collaboration: Business Wisdom at Rice

- Addressing issues related to highlighting research not available to the public (behind publisher paywalls).
- Placing copies of articles referenced in posts (subject to copyright clearance) in IR ahead of publish date. http://ricebusinesswisdom.com/

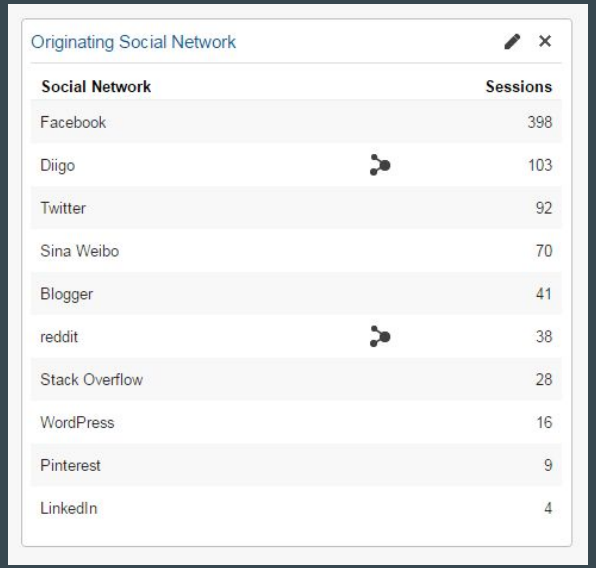


Collaboration with Public Affairs

- Make copies of publications mentioned in press releases available in IR (at time of press release)
- Similar projects at Oregon State University and CalTech

Social Media Outreach

- Promoting collections & items via social media (Twitter & Facebook)
- Tracking relationship between social media posts & IR traffic



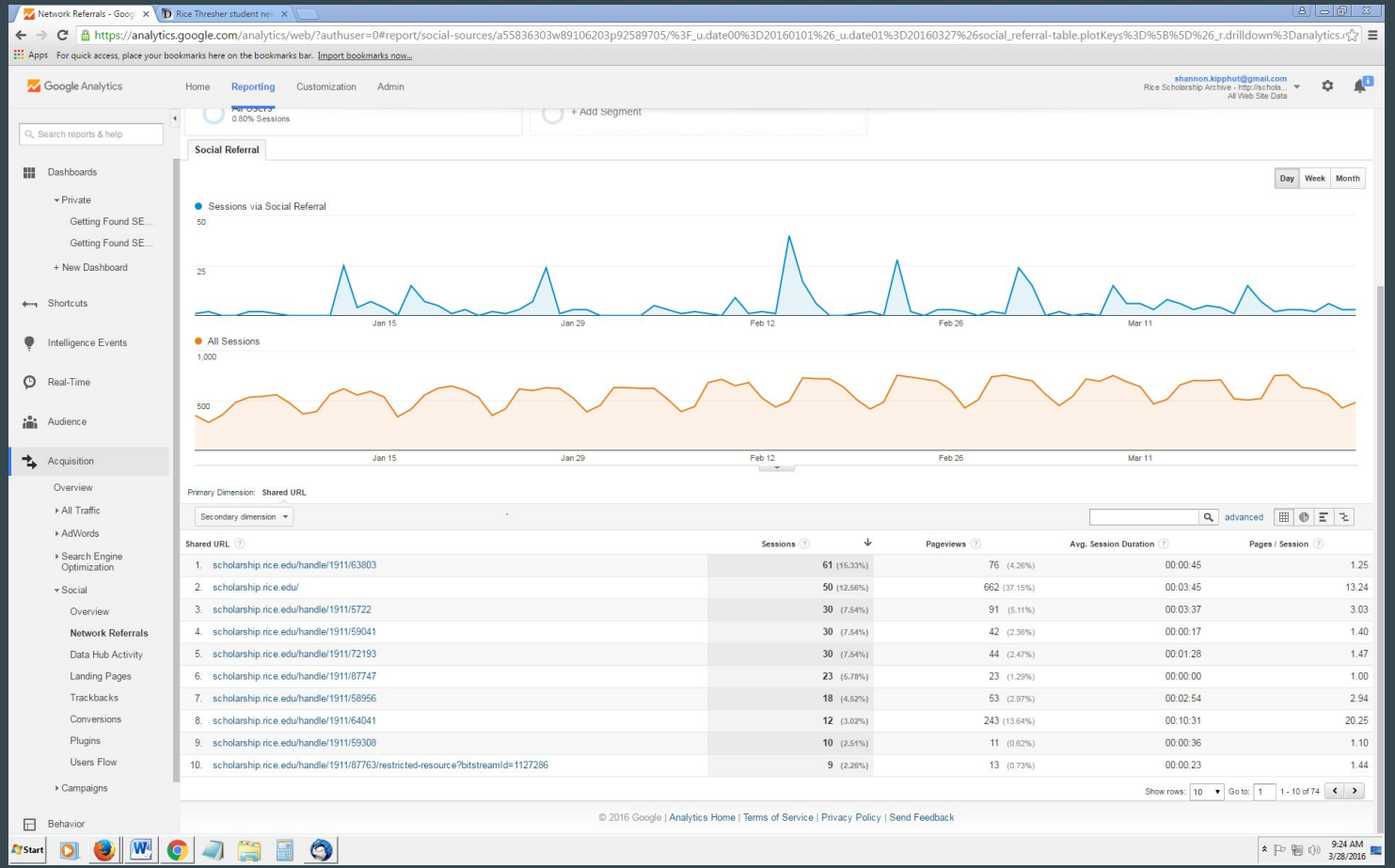
Originating Social Network

Social Network	Sessions
Facebook	398
Diigo	103
Twitter	92
Sina Weibo	70
Blogger	41
reddit	38
Stack Overflow	28
WordPress	16
Pinterest	9
LinkedIn	4

Referral Traffic

Source	Sessions
google	31,667
scholar.google.com	1,520
bing	1,491
yahoo	1,323
rank-checker.online	395
baidu	259
digitalscholarship.lighthouseapp.com	247
facebook.com	221
m.facebook.com	166
scholar.google.co.uk	165

Social Media



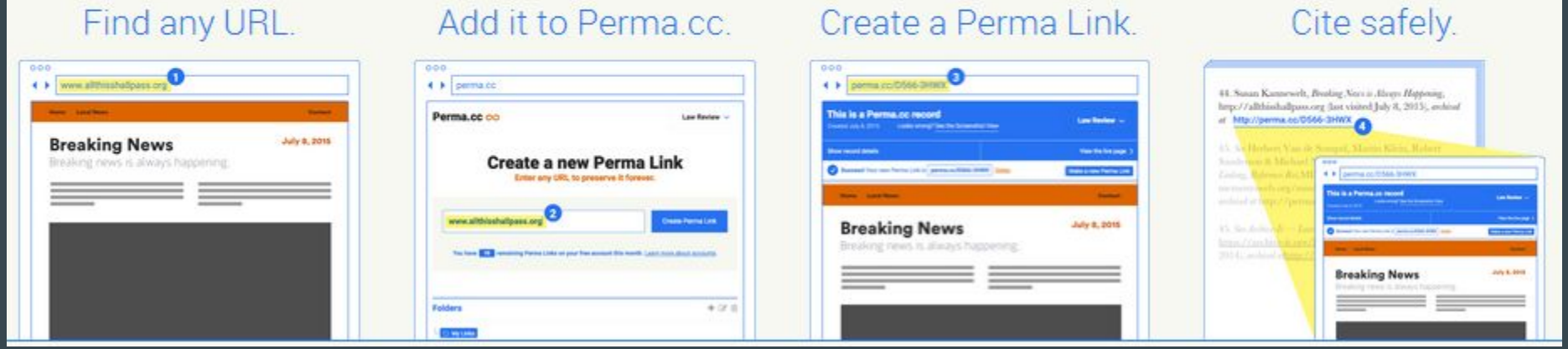
Reference Rot = Link Rot + Content Drift

- Only half of the nearly 555 URL links cited in Supreme Court opinions since 1996 still work
- Scholarly Context Not Found: One in Five Articles Suffers from Reference Rot
- Study of 6,400 e-Theses defended in 2003-2010 at 5 US universities, found more than one third of references to the Web subject to ‘rot’ (35.7%)

Press releases

- ***IR metadata***
- ***Faculty publications***
- ***ETDs, etc.***

Perma.cc is a simple way to preserve your links.



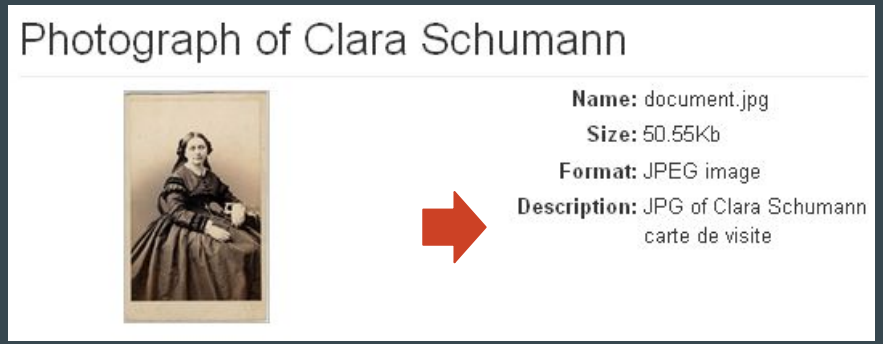
Perma.cc ∞

Example

Ongoing improvements to DSpace search*

**based on librarian input*

- Support Phrase Searching (it's back!)
- Refine search by type (new)
- Updating metadata to include any file descriptions



Math ML

New feature

Citation

Tomlinson, Kathy Adiene. "An analog to the heat equation in complex space variables." (1991) Doctoral, Rice University. http://hdl.handle.net/1911/16489.

Abstract

Consider the operator

$$\mathbf{P} = \frac{\partial}{\partial t} + \alpha \frac{\partial m}{\partial zm}, \qquad \alpha \in \mathbf{C} - \{0\}$$

where $\frac{\partial}{\partial z}$ is the usual complex operator:

$$\frac{\partial}{\partial z} = \frac{1}{2}\left(\frac{\partial}{\partial x} - i\frac{\partial}{\partial y}\right).$$

When m = 2 and α = −1, P bears a remarkable resemblance to the heat operator in one space variable. The "only" difference is that the space variable is now complex. In spite of this superficial similarity, P is quite different from the heat operator. It is neither hypoelliptic nor parabolic. The key result is a formula for a fundamental solution, E. It is obtained formally using Fourier transforms. The formula is a linear combination of Fresnel-like integrals, divided by z and a power of t. It is a $C\infty$ function except across t = 0. It has a

Renders formulas or scientific notations

Rice Faculty sponsored journals

- *Rice Working Papers in Linguistics*
- *Sarmatian Review* back issues 1998 to 2015 (current)

Table of Contents

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  Koth, Anthony
- "I Love You But I Disagree": Politeness and Pol
  Maurey, Samantha and Lisa Jeon
- Fast speech phenomena in Asante Twi
  Nelson, Katherine

The Sarmatian Review, Vol., 35, No. 3

Andryczyk, Mark; Grondelski, John M.; O'Keefe, Terrence; Reid, James E.; Trojanowska, Tamara; Urbanowski, Maciej; Zakrzewski, Christopher A.; Ziolkowska-Boehm, Aleksandra (2015-09)

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Rice Electronic Thesis and Dissertations (ETDs)

2015 conferred T/Ds online

New theme display: browse by degree info, *Ying Jing*

Earth Science geological maps and seismic profiles
Andrew Damico, Scott Carlson, Monica Rivero

Worldcat *Amber Seely / Sid Byrd*

Data management study (forthcoming)

RDMT: *Jean Aroom, Scott Carlson, Shannon Kipphut-Smith, Jun Qian, Monica Rivero, Lisa Spiro, Kathy Weimer, OIT*

Retrospective digitization project

- 1400+ Master Theses
- Span decades 1920's -1970's
- Will be available online in (late) March
- **Interdepartmental effort !**

Kerry Keck (Identified duplicate thesis), James Springer /LSC (transferring volumes), Amber Seely (batch catalog updates), Andrew Damico/students (physical review & packaging), Scott Carlson/Monica Rivero (PDF QC, metadata) Lisa Spiro (proposal), Sara Lowman (budget approval. thanks!)

Vireo 3

Used by students to submit theses

Used by Rice' Graduate and Postdoctoral Studies to manage submissions

Archives to DSpace

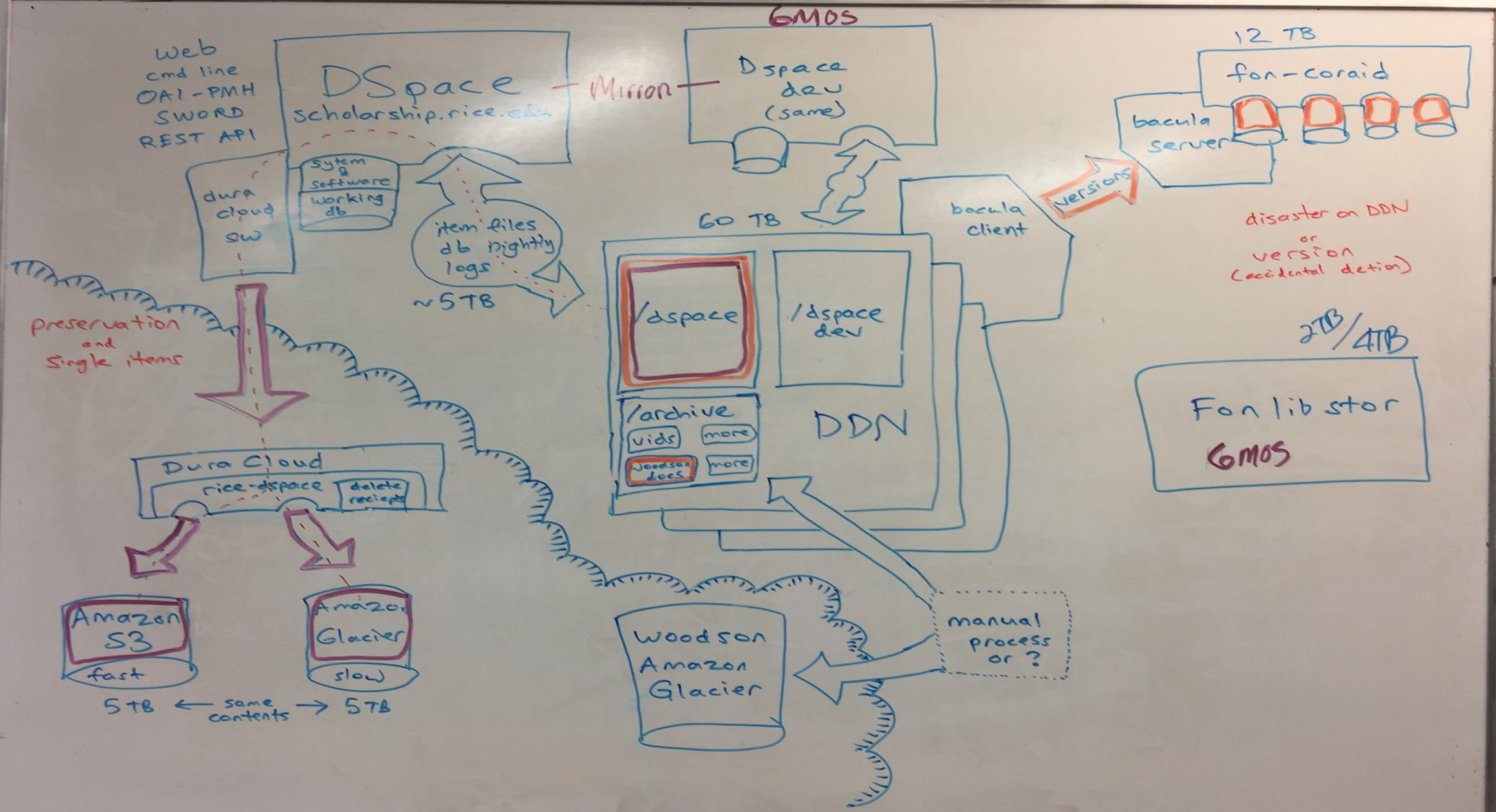
New features: ORCID, better email options, Excel reports, manuscript corrections, etc.

DuraCloud

Cloud archival service for content in DSpace

Process:

- Convert to AIP (Archival Information Package)
- Store in S3
- Store in Glacier



web
cmd line
OAI-PMH
SWORD
REST API
DSpace
scholarship.rice.edu
Mirror
6MOS
Dspace
dev
(same)
12 TB
fon-coraid
bacula
server
dura
cloud
sw
sytem
&
software
working
db
item files
db nightly
logs
~5TB
60 TB
/dspace
/dspace
dev
/archive
vids
more
Woodson
docs
more
DDN
bacula
client
versions
disaster on DDN
or
version
(accidental detion)
2TB/4TB
Fon lib stor
6MOS
preservation
and
single items
Dura Cloud
rice-dspace
delete
reciepts
Amazon
S3
fast
Amazon
Glacier
slow
5TB ← same contents → 5TB
Woodson
Amazon
Glacier
manual
process
or ?

DSpace and More

- **Limitations:**
  - Handle all content types the same way
  - Can’t handle collections with special structure
  - Can’t have customized UI for each collection
- **What we have done:**
  - Djatoka for JPEG2000 viewer
  - JWplayer and HTML5 technology for audio/video streaming
  - Customized UI for Periodical collections
  - Implemented Image gallery for one of image collections

DSpace and More

- **More we can do**
  - OHMS
  - DSpace to Omeka Plugin

OHMS (Oral History Metadata Synchronizer)

- **OHMS is a web-based, open source software developed by University of Kentucky libraries.**
  - Improve user experience with online oral history interview by connecting the user from a search result to the corresponding moment in an interview.
  - Example:
    - http://nyx.uky.edu/oh/render.php?cachefile=02OH108RPWCR03_King.xml
    - http://nunncenter.org/OHMS-Viewer/viewer.php?cachefile=2013oh132_ww401_zahn_ohm.xml

DSpace to Omeka Plugin

- **Omeka is an open source, web-publishing platform for online digital collections. User friendly and easy to use.**
- **Plugin**
  - Pull metadata of your choice from DSpace to Omeka
  - Keep your contents in DSpace. Links of contents in Omeka. No duplication, save space.

Dashboard
Items
Collections
Item Types
Tags
Dspace Restapi Harvester

Dspace Restapi Harvester

Search +

Data Provider

Base URL The base URL of the Dspace REST API provider.

https://scholarship.rice.edu/rest

View Collections

Harvests

Base URL	Collection Name	Collection Handle	Status
https://scholarship.rice.edu/rest	BioSciences Publications	1911/78269	Completed Re-Harvest
https://scholarship.rice.edu/rest	Baker Institute Publications (Baker Institute Publications)	1911/20461	Error
https://scholarship.rice.edu/rest	Architecture at Rice University Series	1911/62598	Completed Re-Harvest
https://scholarship.rice.edu/rest	Architecture Department, Rice Institute, 1919-1954 (Forms part of the Watkin architectural records and illustrates Watkin's administrative and teaching roles in the Architecture Department.)	1911/12846	Completed Re-Harvest
https://scholarship.rice.edu/rest	Anderson Aeronautical History collection, 1784-1988 (MS 69)	1911/78914	Completed Re-

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Dspace Restapi Harvester | Harvest

Search +

Data provider: https://scholarship.rice.edu/rest

Harvest a collection:

Collection Name	Collection Handle	Number of Items	Harvest
Albert Sherrad Campbell U.S. Civil War journals, 1861-1862 (MS 314)	1911/21891	4	Go
Albert Thomas papers, 1937-1965 (MS 262)	1911/27443	13	Go
Alexander Hobbs U.S. Civil War diary	1911/35295	2	Go
Americas collection, 1811-1920 (MS 518)	1911/35298	6	Go
Anderson Aeronautical History collection, 1784-1988 (MS 69)	1911/78914	7	Go
Andy A. Barentine oil exploration records, 1927-1969 (MS 77)	1911/76436	22	Go
Anne Marie Stewart Turner letters, 1857-1913 (MS 114)	1911/21714	68	Go
Anthropology Publications	1911/69906	27	Go

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Chinese American Citizens Alliance records (Houston Chapter) (MS 606)	1911/75158	22	Go
Chuan-Hua Gershom Lowe, National Party, Chinese diplomat papers, 1923-1996 (MS 588)	1911/75161	4	Go
Civil and Environmental Engineering Publications	1911/68526	51	Go
Clark Bruster World War I Camp Logan collection, 1917-1919 (MS 554)	1911/77368	3	Go
Classical Studies Publications	1911/69898	1	Go
CMC Publications Publications by Rice Faculty and graduate students in multimedia communications	1911/21945	275	Go
Col. Edward M. House correspondence, 1896-1927 (MS 263)	1911/21868	1	Go
Colonel Cyrus Burnet Smith U.S. Civil War papers, 1856-1958, bulk 1856-1896 (MS 411)	1911/87301	3	Go
Computer Science Publications	1911/37143	39	Go
Correspondence Forms part of the William Ward Watkin architectural archive	1911/12396	67	Go
Correspondence and ephemera from Lovett World Tour	1911/70649	14	Go

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https://scholarship.rice.edu/rest	BioSciences Publications	1911/78269	Completed Re-Harvest
https://scholarship.rice.edu/rest	Baker Institute Publications (Baker Institute Publications)	1911/20461	Error
https://scholarship.rice.edu/rest	Architecture at Rice University Series	1911/62598	Completed Re-Harvest
https://scholarship.rice.edu/rest	Architecture Department, Rice Institute, 1919-1954 (Forms part of the Watkin architectural records and illustrates Watkin's administrative and teaching roles in the Architecture	1911/12846	Completed Re-Harvest

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Collection #10: "Computer Science Publications"

Dublin Core

Title Computer Science Publications

Recently Added Items

Mar 28, 2016 Synthesis from Probabilistic Components

Mar 28, 2016 DINC: A new AutoDock-based protocol for docking large ligands

Mar 28, 2016 Mechanism of Graphene Oxide Formation

Mar 28, 2016 Understanding the challenges of protein flexibility in drug design

Mar 28, 2016 From Error to Error: Why Voters Could not Cast a Ballot and Verify Their Vote With Helios, Prêt à Voter, and Scantegrity II

Mar 28, 2016 Non-intrusive Persistence with a Backend NVM Controller

Mar 28, 2016 Transaction local aliasing in storage class memory

Mar 28, 2016 On computing minimal independent support and its applications to sampling and counting

Mar 28, 2016 Drug Target Optimization in Chronic Myeloid Leukemia Using Innovative Computational Platform

Mar 28, 2016 The Probability of a Gene Tree Topology within a Phylogenetic Network with

Edit

View Public Page

Delete

Public: Yes **Featured:** No

Total Number of Items

38

Contributors

- No contributors.

Dashboard
Items
Collections
Item Types
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Dspace Restapi Harvester

Dublin Core

Prev Item Next Item

Title	Understanding the challenges of protein flexibility in drug design
Language	eng
Volume Number	10
Issue Number	12
URI Identifier	http://hdl.handle.net/1911/88215
Date Issued	2015
Publisher of Physical Copy	Taylor & Francis
DCMI Type	Text
Copyright	This is an author's peer-reviewed final manuscript, as accepted by the publisher. The published article is copyrighted by Taylor & Francis.
Funder	Conselho Nacional de Desenvolvimento Científico e Tecnológico National Science Foundation

Edit

View Public Page

Delete

Public: Yes **Featured:** No

Collection

Computer Science Publications

File Metadata

There are no files for this item yet. Add a File.

Output Formats

- atom
- dcmes-xml
- json
- omeka-json
- omeka-xml

Bibliographic Citation