

SHARE in 2016: Technology, Community, Pedagogy

Cynthia Hudson-Vitale
Judy Ruttenberg
Texas Digital Library Webinar
Thursday, May 6, 2016

Mission

SHARE is a higher education initiative whose mission is to **maximize research impact** by making research widely accessible, discoverable, and reusable.

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Thank you to our sponsors

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SHARE Phase II objectives

Expand providers

Enhance metadata collected from existing providers, (100+) including linking related research objects

Look for opportunities for institutional and other systems use and integration

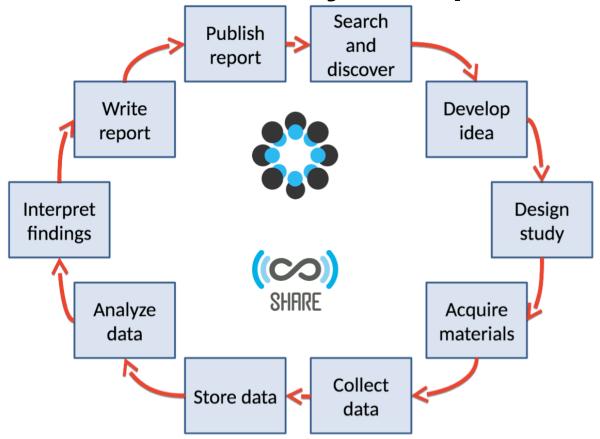
Open infrastructure for open access

OA advocacy & policy is more mature than OA infrastructure & implementation

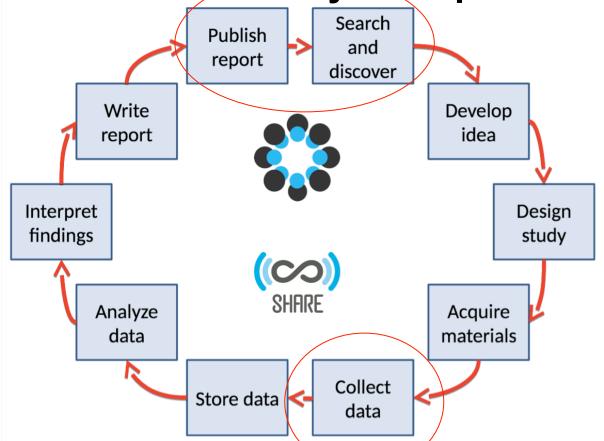
OA implementation infrastructure should be open

- Metadata
- Standards and identifiers
- Code, platforms, and APIs

Why is the research life cycle important?



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The future of open scholarship

"We find ourselves two decades into the transition of research communication from a paper-based endeavor to a web-based digital enterprise, and well into the transition of the research process itself from a largely hidden activity to one that becomes plainly visible on the global network."

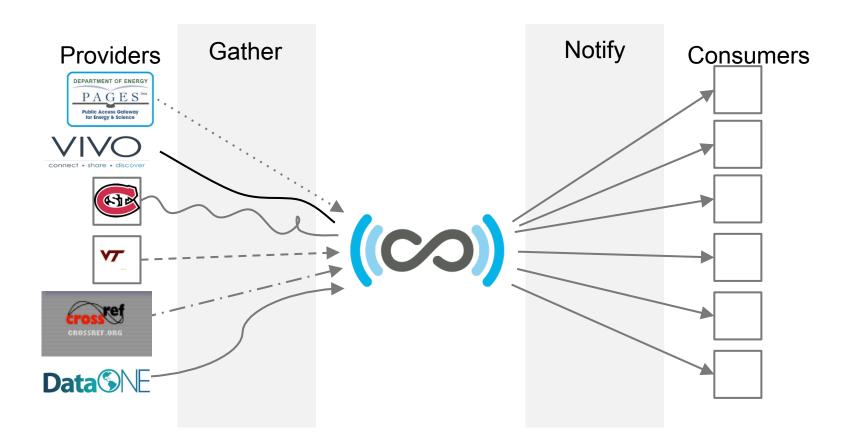
Herbert Van de Sompel

"Reminiscing About 15 Years of Interoperability Efforts" (DLib Magazine, Nov./Dec. 2015)

Access is restricted/hidden by

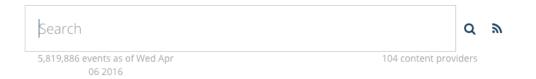
- Licenses
- Terms of service
- · Lack of programmatic access
- Pay walls
- Unavailability
- Inconsistency
- Low quality

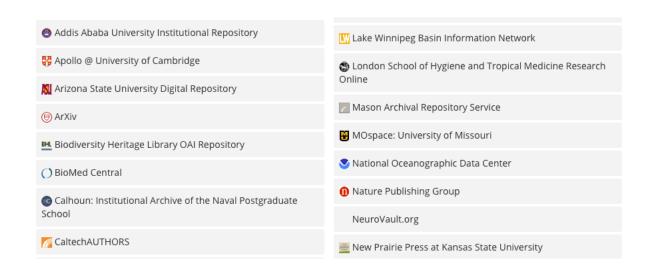
SHARE is assembling and enhancing a free, open dataset of scholarly research activity so others can avoid these challenges.



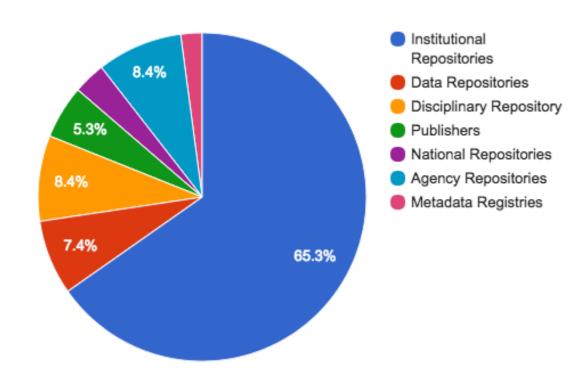


Example discovery interface http://osf.io/share

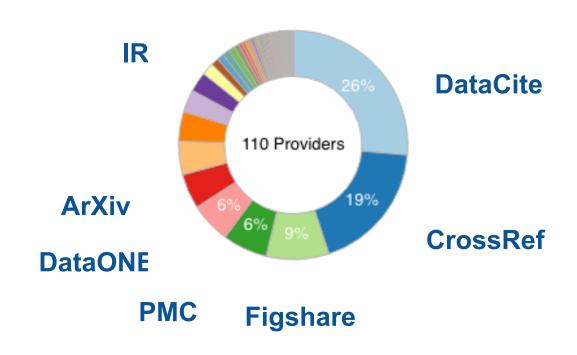




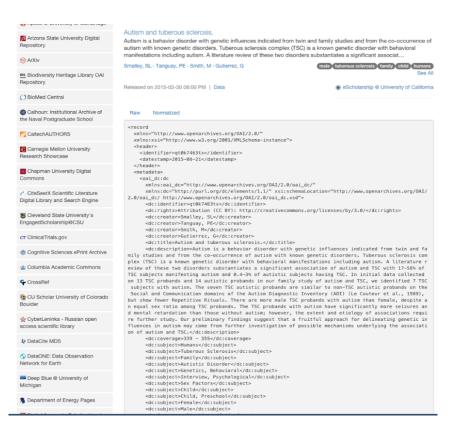
SHARE Notify Providers by Type



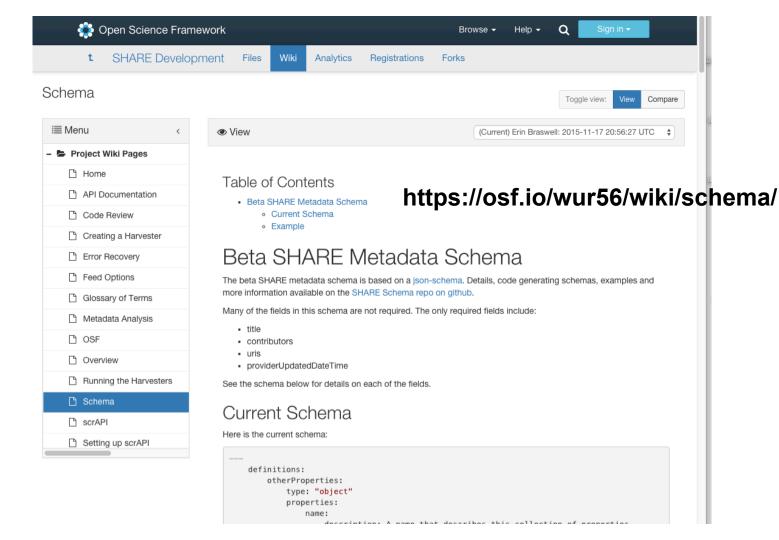
SHARE Providers by % of 6 Million Records



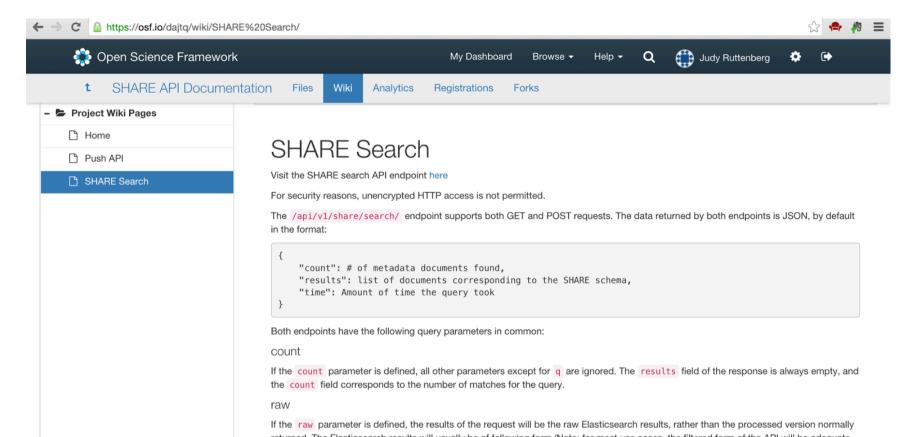
Normalization of metadata

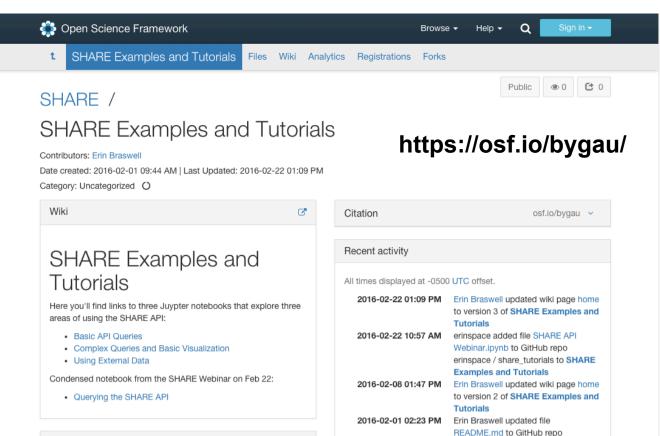


Autism and tuberous sclerosis. Arizona State University Digital Autism is a behavior disorder with genetic influences indicated from twin and family studies and from the co-occurrence of autism with known genetic disorders. Tuberous sclerosis complex (TSC) is a known genetic disorder with behavioral manifestations including autism. A literature review of these two disorders substantiates a significant associat... Smalley, SL · Tanguay, PE · Smith, M · Gutierrez, G BHL Biodiversity Heritage Library OAI Repository Released on 2015-03-30 08:00 PM | Data eScholarship @ University of California () BioMed Central Calhoun: Institutional Archive of Normalized the Naval Postgraduate School "versions": [CaltechAUTHORS "341cbf4b-9095-49d6-94d6-dd38017e70e5". "b4f64043-df2a-46a1-913f-29c29eb81fca", Carnegie Mellon University "e3184cba-7660-4538-99fe-4ef124b4ea5a". Research Showcase "67f28d5f-22f7-4ee6-93a9-5c6e38dd9a9d", "8f787696-08b8-436a-bd6b-50c17538a64c", Chapman University Digital "3669cce6-e8c1-4c0a-8beb-055496bd845c" Commons "licenses": [], "publisher": { r* CiteSeerX Scientific Literature "name": "eScholarship, University of California" Digital Library and Search Engine "title": "Autism and tuberous sclerosis.", Cleveland State University's "shareProperties": { EngagedScholarship@CSU "source": "ucescholarship" "otherProperties": [CT ClinicalTrials.gov "properties": { Cognitive Sciences ePrint Archive "type": "article" cb Columbia Academic Commons "name": "type" GrossRef "properties": { "format": "application/pdf" CU Scholar University of Colorado "name": "format" r CyberLeninka - Russian open "properties": { access scientific library "date": "1992-01-01" DataCite MDS "name": "date" O DataONE: Data Observation Network for Earth "properties": { "identifier": ["qt0k7463tx", Deep Blue @ University of "http://www.escholarship.org/uc/item/0k7463tx", "qt0k7463tx" Department of Energy Pages



Open SHARE API





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erinspace / share_tutorials in SHARE Examples and Tutorials

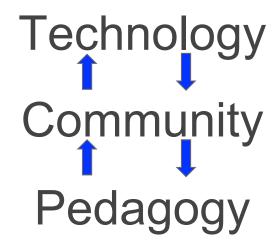
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Examples and Tutorials



There is a lot of work to do



Technology

Data processing pipeline

Provenance modeling

Harvesters for metadata providers

Automated metadata enhancement techniques

Curation interface

Curation pipeline (e.g., validation rules)

Discovery interface

APIs

SHARE Community

Joint Working Group and Task Groups

Users

Data providers

Code contributors

Hackers

Pilot Institutions

Consortia

Curation Associates

Related systems

(e.g. VIVO)

Users and Use Cases

- Tracking research by particular people or institutions
- Inter-repository linking: data and publications
- Intervention in sponsored research workflow
- Meta-scholarship



SHARE to Offer Webinar for Developers on Querying SHARE Data Set of Research Events

Judy Ruttenberg | 202-296-2296 | judy@arl.org | March 3, 2016

The SHARE team is hosting a <u>free webinar</u> for the higher education and library developer community on <u>Thursday</u>, March 17, 2016, at 2:00–3:30 p.m. EDT. Erin Braswell from the Center for Open Science—and SHARE's primary developer—will introduce the SHARE application programming interface (API), present how to perform queries and visualizations with the data, and discuss potential uses for the data in universities and libraries, such as querying the data set for new research from your institution.



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Pedagogy: SHARE Curation Associates

An opportunity for library professionals to develop digital curation and computational thinking skills to enhance local institutional repositories in a servicelearning setting. Together, we can advance library digital competencies and move scholarly communications forward.

Pedagogy: SHARE Curation Associates

Information extraction through application programming interfaces (API) and OAI-PMH feeds

Building content harvesters

Basic programming in Python

Methods and tools to automate data cleaning and metadata enhancements

All tools used will be open source.

Pedagogy: Demand for Open APIs

- Digital scholarship workshops
- Computer science students
- Internships

SHARE provides an opportunity to advance an academyfriendly scholarly communication agenda in a service learning
context

Participating TDL sources

- Texas A&M
- Texas State University
- University of Texas -Austin

Registering as a new provider



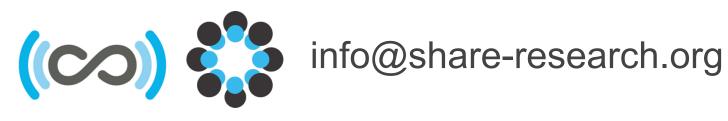
To include your organization's publications, data, repository holdings, or other research in SHARE, please register here.

Register as a Provider

Watch a 90-second video that shows how easy it is to register to become a SHARE metadata provider.

Thank you!

www.share-research.org/updates



@SHARE research