

Digital Publishing In The New Era Of Scholarly Communication

Qing Li

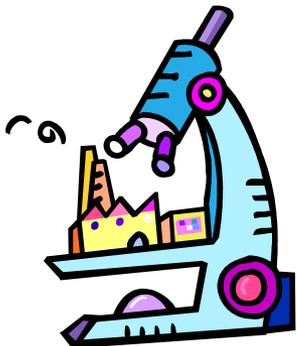
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Scholarly Communication

- **Scholarly Communication (SC)** *“is an umbrella term used to describe the process of academics, scholars and researchers sharing and publishing their research findings so that they are available to the wider academic community and beyond.”*

http://en.wikipedia.org/wiki/Scholarly_communication#cite_note-0



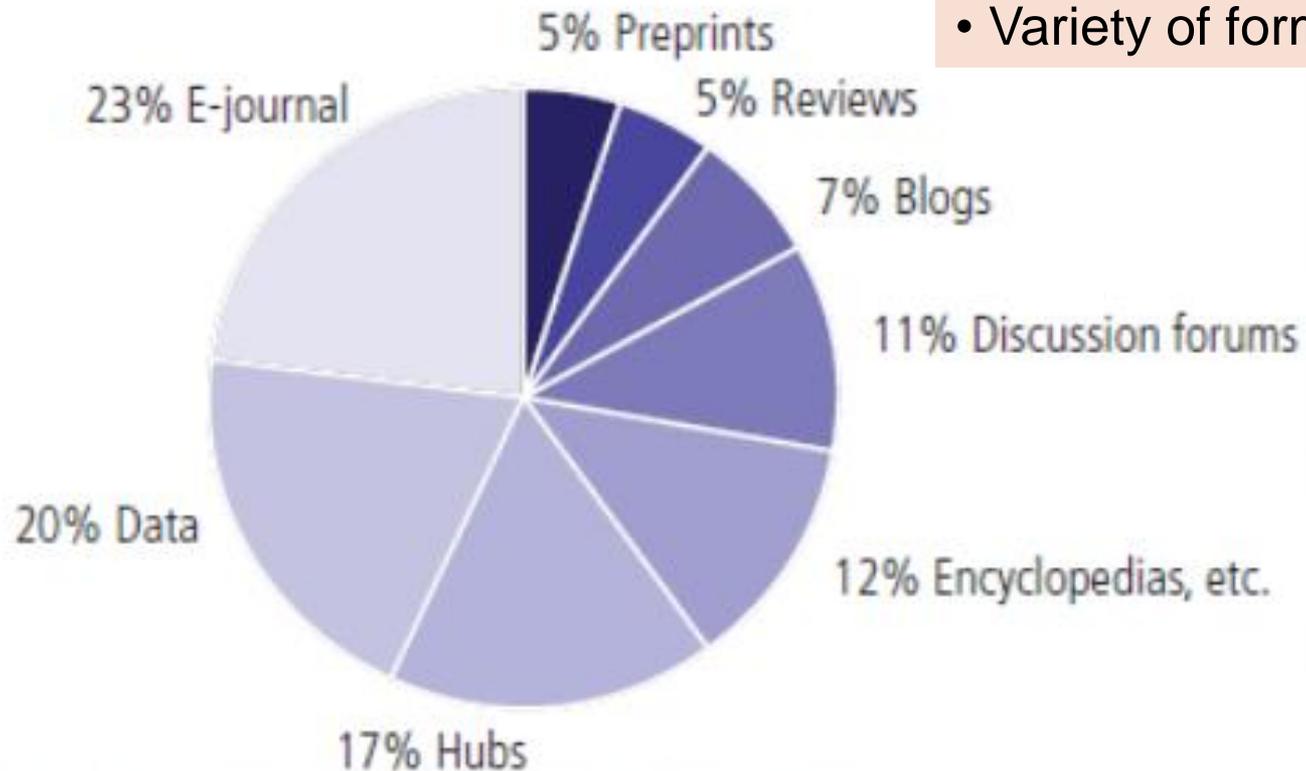
The Scholarly Communication Life Cycle



<http://www.lib.unc.edu/scholcom/about/>

New Models of Digital Publishing

Figure 2. Digital Scholarly Resources by Type (n = 206)



- Variety of channels
- Variety of formats



Are We Ready?

As academic librarians, what kinds of roles should we play in the new era of scholarly communication?

Trusted Advice vs. Service Delivery

- We should be able to assist him/her, when a researcher asks us:
 - How to make my research outputs publicly available in a trusted channel
 - How to self-archive my own papers without violating any copyright policy
 - How to manage my massive scientific data



Today's Topics

- How to make my research outputs publicly available in a trusted channel
 - **Gold OA**
- How to self-archive my own papers without violating any copyright policy
 - **Green OA**
- How to manage my massive scientific data
 - **Data Curation**

1) Gold Open Access (OA)

- Over 4,500 Gold journals out of roughly around 25,000 peer-reviewed journals in total
 - Advertising
 - Fund-raising
 - Institutional subsidies
 - Membership dues
 - Publication fees
 - Submission fees
 - Volunteer effort

<http://poynder.blogspot.com/>

Hybrid OA Option by Publishers

- Many subscription journals provide a Hybrid OA option, i.e. IEEE Photonics Journal, IEEE Magnetics Letter
- More funders and research institutions create Gold OA funds to help authors publish as OA papers



Help Authors Find Hybrid OA Option



... opening access to research

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Publishers with Paid Options for Open Access

Publishers' paid open access options, allow authors to deposit their articles immediately in open access repositories upon payment of a fee. The same publishers may also allow authors to deposit after an embargo period without payment of a fee.

Where a publishers' standard policy does not allow an author to comply with their funding agency's mandate (see [JULIET](#)), paid open access options may enable an author to comply.

Publisher	Paid Option Name	Price per Article			Remarks
		US Dollars	GB Pounds	Other	
Adenine Press	Optional Open Access	\$1500	(£1015)	-	-
Akademiai Kiado	Optional Open Article	\$562 - \$1125	(£380 - £762)	€450 - €900	Fee depends on Institution
American Association of Pharmaceutical Scientists	Open Choice	\$3000	(£2031)	-	Part of Springer Group
American Chemical Society	ACS Author Choice	\$3000	(£2031)	-	Discounts due to membership
American College of Chest Physicians (ACCP)	CHEST Open Access Option (OAO)	\$3000	(£2031)	-	-
American Dairy Science Association	Paid Open Access option	\$1000	(£677)	-	-
American Geophysical Union (AGU)	Author Choice for Open Access	fee based on article length and number of figures			-
American Institute of Physics	Author Select	\$1500 - \$2500	(£1015 - £1692)	-	Fee depends on journal
American Physical Society	Free to Read	\$975 - \$1300	(£660 - £880)	-	Fee depends on journal
American Physiological Society	Author Choice	\$2000 - \$3000	(£1354 - £2031)	-	Fee varies if review or research article
American Psychological Association	[Unnamed]	\$2500 - \$4000	(£1692 - £2708)	-	-

<http://www.sherpa.ac.uk/romeo/PaidOA.html>

Gold OA Directory - DOAJ

SPARC
EUROPE
AWARD
2009

For Outstanding
Achievements
in Scholarly
Communications



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<http://www.doaj.org/>

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Gold OA Directory - Open J-Gate

A service by Informatics dedicated to the promotion of
the Open Access movement for scholarly journals



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Quick Search

(Use double quotes for exact Phrase Search)

- Peer-Reviewed Journals
- Professional & Industry Journals

<http://www.openj-gate.org>

Powered By J-Gate

Help Authors Avoid "Gold Fever"

- *"A high proportion of Gold OA journals are lesser journals"*

<http://poynder.blogspot.com/>

- Criticisms

- Spam invitations to submit papers
- Inadequate peer review process

- "Predatory" OA Publishers

- *"The mission is not to promote, preserve, and make available scholarship; but to exploit the author-pays, Open-Access model for their own profit"*
- Provide little or no peer-review
- Poor digital preservation

www.unifr.ch/dokpe/webtools/beall_charlestonAdvisor.pdf

Ways to Identify Possible “Predatory” OA Publishers

Contact Information

Academic Journals

Address: Given only as 5170-00200, Nairobi and
73023 Victoria Island, Lagos
Phone: None given.
Fax: None given.
Email: <service@academicjournals.org>
URL: <<http://www.academicjournals.org/index.htm>>

Academic Journals, Inc

Address: 224 5th Avenue, No. 2218
New York, NY 10001
Phone: None given.
Fax: (888) 777-8532
Email: Not given; a web form allows online contact.
URL: <<http://www.academicjournalsinc.com>>

ANSINetwork

Address: Not given.
Phone: Not given.
Fax: Not given.
Email: Not given, but there is a web form on the site for online
contact.
URL: <<http://www.ansinet.com/>>

Dove Press

Address: Beechfield House, Winterton Way
Macclesfield, U.K. SK11 0JL
Address: 20 South Dudley Street, Suite 806
Memphis, TN 38103
Phone: (+44) 1 625 509 130 (U.K.)
Phone: (732) 357-5784 (U.S.)
Fax: (+44) 1 625 617 933 (U.K.)
Fax: (901) 448-8504 (U.S.)
Email: Not given; a web form allows online contact.
URL: <<http://www.dovepress.com/>>

Insight Knowledge

Address: 145-157 St John Street, 2nd Floor
London, England EC1V 4PY
Phone: Not given.
Fax: (+44) 2 079 790 253
Email: Not given; a web form allows online contact.
URL: <<http://insightknowledge.co.uk/>>

Knowledgia Review

Address: Not given.
Phone: Not given.
Fax: Not given.
Email: Not given; a web form allows online contact.
URL: <<http://www.knowledgia.net/journal.php>>

Libertas Academia

Address: P.O. Box 300-874 Albany
0752 Auckland, New Zealand
Phone: (+64) 9 476 3930
Fax: (+64) 9 353 1397.
Email: <tom.hill@la-press.com>
URL: <<http://www.la-press.com/>>

Science Publications

Address: New York, USA (no further address information is given)
Phone: Not given.
Fax: Not given.
Email: <support@scipub.org>
URL: <<http://www.scipub.org/>>

Scientific Journals International

Address: 1407 33rd Street
South Saint Cloud, MN 56301
Phone: (320) 217-6019
Fax: Not given.
Email: <info@scientificjournals.org>
URL: <<http://www.scientificjournals.org/>>

Gold OA Directory - OASPA



Open Access Scholarly Publishers Association

Home

About OASPA

Conference

Membership

Information Resources

Welcome to the Open Access Scholarly Publishers Association, OASPA.

OASPA offers a forum for bringing together the entire community of Open Access journal publishers.

Our mission
and scholar
advancing n

Through a
publishing,
communities
operation.

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The following organizations and individuals are recognized as the permanent Founding Members of OASPA.

OA Professional Publishing Organizations

- ▶ BioMed Central
- ▶ Co-Action Publishing
- ▶ Copernicus Publications
- ▶ Hindawi Publishing Corporation
- ▶ Public Library of Science
- ▶ SAGE Publications
- ▶ Utrecht University Library (Igitur)

OA Scientist/Scholar Publishers

- ▶ Journal of Medical Internet Research (Gunther Eysenbach)
- ▶ Medical Education Online (David Solomon)

Other Organizations with Voting Privileges

- ▶ SPARC Europe

<http://www.oaspa.org/about.php>

2) Green OA / Self-archiving

arXiv.org

Open access to 619,707 e-prints in Physics, Mathematics, Computer Science, Quantitative Biology, Quantitative Finance
Subject search and browse

5 Mar 2010: New Submission
21 Jan 2010: Collaboration
8 Apr 2009: Added publication
See cumulative "What's New"
Robots Beware: index

Physics

- Astrophysics (includes: Cosmology, Astrophysics; Solar and Stellar Astrophysics; Space and Planetary Science)
- Condensed Matter Physics (includes: Disordered Systems; Statistical Mechanics; Strongly Correlated Systems)
- General Relativity and Quantum Gravity
- High Energy Physics - Experiment
- High Energy Physics - Theory
- High Energy Physics - Phenomenology
- High Energy Physics - Instrumentation
- Mathematical Physics
- Nuclear Experiment

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PASSWORD
Go

SSRN eLibrary
Recent Announcements

NTU Institutional Repository

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搜尋 進階搜尋

臺灣大學機構典藏
NTU Institutional Repository

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- ◎ 機構典藏相關文件
- ◎ 上傳委託書下載
- ◎ PDF閱讀器下載
- ◎ 出版社著作權政策詳表 (2009-06)

NTUR中的社群 [54728/151936] [全文筆數/總筆數]

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Preprints

- Preprints:
 - *"manuscripts intended for publication that have not yet been published but may have been reviewed and accepted for publication; or they may be in the process of being circulated for comment prior to publication"*
 - US Department of Energy, Office of Scientific and Technical Information, 2004

- Originally, preprints were just shared with interested small groups via private channels prior to publication

Self-Archiving

- Self-archiving is to
 - “deposit a digital document in a publicly accessible website...”
 - “Depositing involves a simple web interface where the depositor copy/pastes in the “metadata” (date, author-name, title, journal-name, etc.) and then attaches the full-text document”

- The purpose of self-archiving is to
 - “make the full text of the peer-reviewed research output of scholars/scientists and their institutions visible, accessible, harvestable, searchable and useable by any potential user with access to the Internet... maximizes its visibility, usage and impact...”

<http://www.eprints.org/self-faq/#self-archiving>

Quality Control in Self-Archiving

- Critics on traditional peer review
 - Slowness
 - Subjectivity
 - Bias
 - Abuse
 - Detecting defect

(Rowland 2002)

- More collaborative review process in self-archiving
 - Reviewing
 - Editing
 - Recommending

Remind Authors

Copyright checking before self-archiving



SHERPA/ROMEIO

Publisher Self-archiving Policy

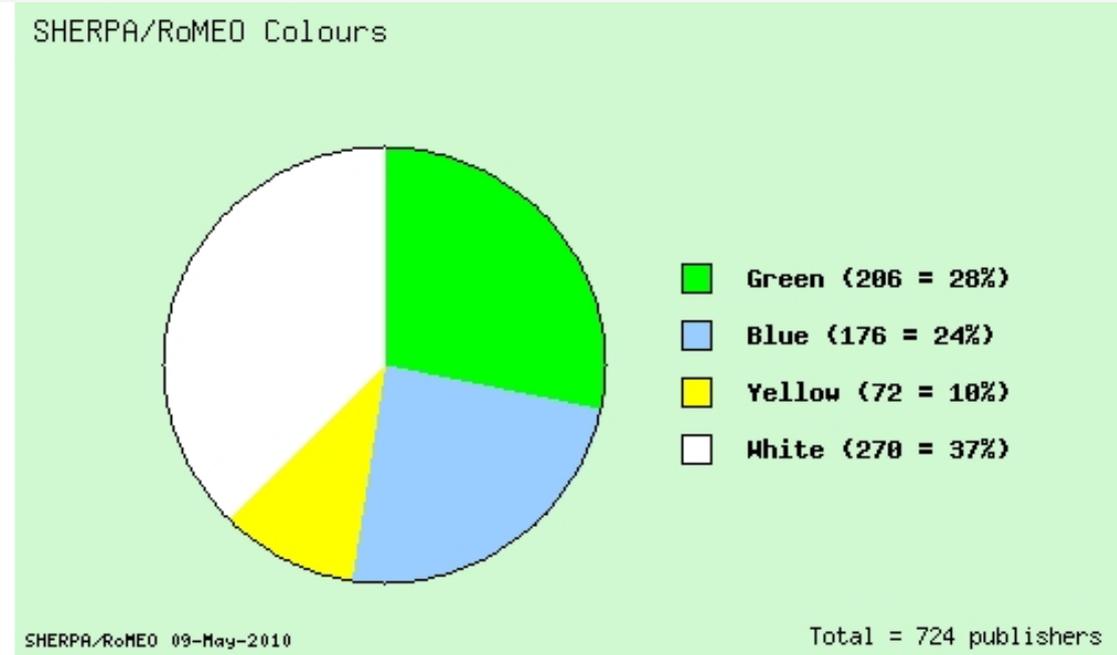
- SHERPA (Securing a Hybrid Environment for Research Preservation and Access)
- **The RoMEO Project (Rights Metadata for Open archiving)**
 - *“To investigate the rights issues surrounding the 'self-archiving' of research in the UK academic community under the Open Archive Initiative's Protocol for Metadata Harvesting”*

<http://www.sherpa.ac.uk/romeo/>

Publishers By Color

ROME colour	Archiving policy
green	can archive pre-print <i>and</i> post-print or publisher's version/PDF
blue	can archive post-print (ie final draft post-refereeing) or publisher's version/PDF
yellow	can archive pre-print (ie pre-refereeing)
white	archiving not formally supported

<http://www.sherpa.ac.uk/ro/o/browse.php>



IEEE is a RoMEO “Green” Publisher

This summary is for the publisher's *default* policies and changes or exceptions can often be negotiated by authors.
All information is correct to the best of our knowledge but should not be relied upon for legal advice.

Publisher: [Institute of Electrical and Electronics Engineers \(IEEE\)](#)

Author's Pre-print: ✓ author **can** archive pre-print (ie pre-refereeing)

Author's Post-print: ✓ author **can** archive post-print (ie final draft post-refereeing)

Publisher's Version/PDF: ✓ author **can** archive publisher's version/PDF

General Conditions:

- Authors own and employers publicly accessible webpages
- Preprint - Must be removed upon publication of final version and either replaced with citation or Published version with citation
- Preprint - Set-phrase must be added once submitted to IEEE for publication (see policy)
- Preprint - Set phrase must be added when accepted by IEEE for publication (see policy)
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- Postprint - Publisher copyright and source must be acknowledged
- Post-print- Publisher's version/PDF may be used (preferred)(see conditions for Pre-prints)

Mandated OA: Compliance data is available for [6 funders](#)

Copyright: [Electronic information dissemination policy \(pdf\)- section 8.1.9 \(pdf\)](#) - [copyright form \(pdf\)](#) - [other copyright information](#)

RoMEO: This is a RoMEO green publisher

Updated: 23-Apr-2010. [Suggest an update for this record](#)

<http://www.sherpa.ac.uk/romeo/search.php?id=38&fIDnum=>

Check Self-Archiving Policy By Journal

Journal Policies - Search: photonics



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SOFTWARE

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OPEN ACCESS

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Journal Policies - Search: photonics

Search:

Number of results: 2

IEEE Photonics Technology Letters

This is a GREEN publisher.

Published by [Institute of Electrical and Electronics Engineers](#)

Green light to self-archive **pre-print** (ie pre-refereeing).

Green light to self-archive **post-print** (ie final draft post-refereeing).

Photonics and Nanostructures - Fundamentals and Applications

This is a GREEN publisher.

Published by [Elsevier](#)

Subject to conditions below, Restricted pre-print self-archiving

- This does not include Cell Press

Green light to self-archive **post-print** (ie final draft post-refereeing).

<http://romeo.eprints.org/>

3) Science Data

■ Origins

– E-Science

- *“E-Science will refer to the large scale science that will increasingly be carried out through distributed global collaborations enabled by the Internet”*

<http://www.nesc.ac.uk/nesc/define.html>

– E-Social Science

- *“Social science using Grid Computing and other IT technologies to collect, process, integrate, share, and disseminate social and behavioral data.”*

<http://cess.grids.cn/views.htm>

Data Repositories



Natural Resources Canada

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Welcome to eBird
 Birding just got better.

Birding News and Features

Populations of Rusty Blackbirds are crashing!
 Their numbers have plummeted by as much as 66-96% over the last few decades, according to data gathered between 1966 and 2006 for the North American Breeding Bird Survey and Christmas Bird Count. A species that was once considered to be abundant is rapidly disappearing before our eyes. Your observations can help save this species by arming scientists with critical information about its migration ecology. Last spring we conducted a pilot study with the Rusty Blackbird Working Group where eBirders collected migration data over a one week period. While the data collected were excellent, we found that short survey windows to be inadequate for gathering data from across much of the species' range. So this year we're broadening the net. eBirders across North America are asked to help scientists by recording Rusty Blackbirds during the entire fall migration period using eBird. Your observations of this species can help fill in the important missing pieces of this conservation puzzle!



BirdBase Export to eBird Now Available!
 October 22, 2008
 Peter Bonn has written and made available a new BirdBase utility, called @BirdLink, that allows users to export BirdBase sightings records to eBird. As with the Avulsis announcement just last week, we have worked closely with Peter on this process. Sightings of many birds -- some of which were entered in BirdBase with no idea that they would later be used in a project such as eBird -- can be uploaded in one operation, saving lots of time. We thank Peter and Bob Esberg of Santa Barbara Software Products for their commitment to the citizen science goals of eBird, and, of course, we look forward to receiving lots of historical sightings data from BirdBase users everywhere!





Wolf Creek Charitable Foundation

University Library Data Repositories

Best Practices from Academic Libraries

The image displays two overlapping screenshots of university library data repository websites. The top-left screenshot is from MIT Libraries, featuring a dark header with the text "Data Management and Publishing" and a navigation menu on the left with links like "Home", "Manage Your Data", "Publish Your Data in a Repository", "Funding Requirements", and "Ethical and Legal Issues". The top-right screenshot is from The University of Edinburgh, showing a blue header with the university's name and logo, a search bar, and a navigation menu. The main content area of the Edinburgh site is titled "Information Services" and "Data Library Overview". It includes a list of services such as "Search IS", "Students", "Researchers & teachers", "Support staff", "About IS", "Services", "Library, museums & galleries", "Computing", "Learning technology", and "Research support". Below this is a "Related links" section with a link for "Your feedback about this page". The main content area also features four informational cards: "Finding data" (Browse dataset holdings and find free data on the internet), "Accessing data" (How to access data from national data services and the Data Library collection), "Using data" (User guides and online learning resources for using research data), and "Managing data" (Online guidance for keeping data safe and usable throughout your research project).

MIT Libraries

Help Yourself : Subject Guides

Data Management and Publishing

Cornell University

DATASTAR

The University of Edinburgh

Information Services

Home People Research Groups

Home

University Homepage » Schools & departments » Information Services » Services » Research-support services » Data Library

Data Library

Overview

The Data Library service supports staff and students in finding, accessing, using and managing research data for analysis, teaching or coursework.

Finding data
Browse dataset holdings and find free data on the internet.
[Finding data](#)

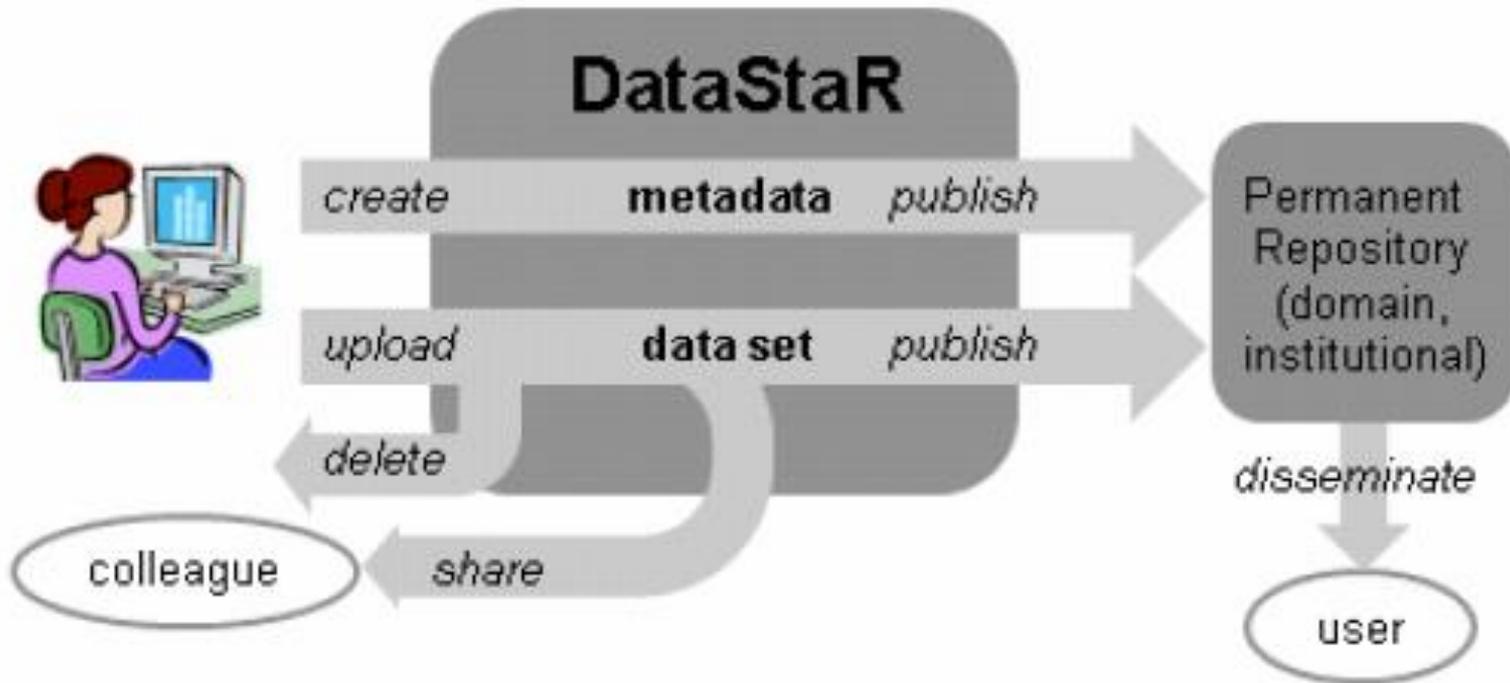
Accessing data
How to access data from national data services and the Data Library collection.
[Accessing data](#)

Using data
User guides and online learning resources for using research data.
[Using data](#)

Managing data
Online guidance for keeping data safe and usable throughout your research project.
[Managing data](#)

Related links
Your feedback about this page

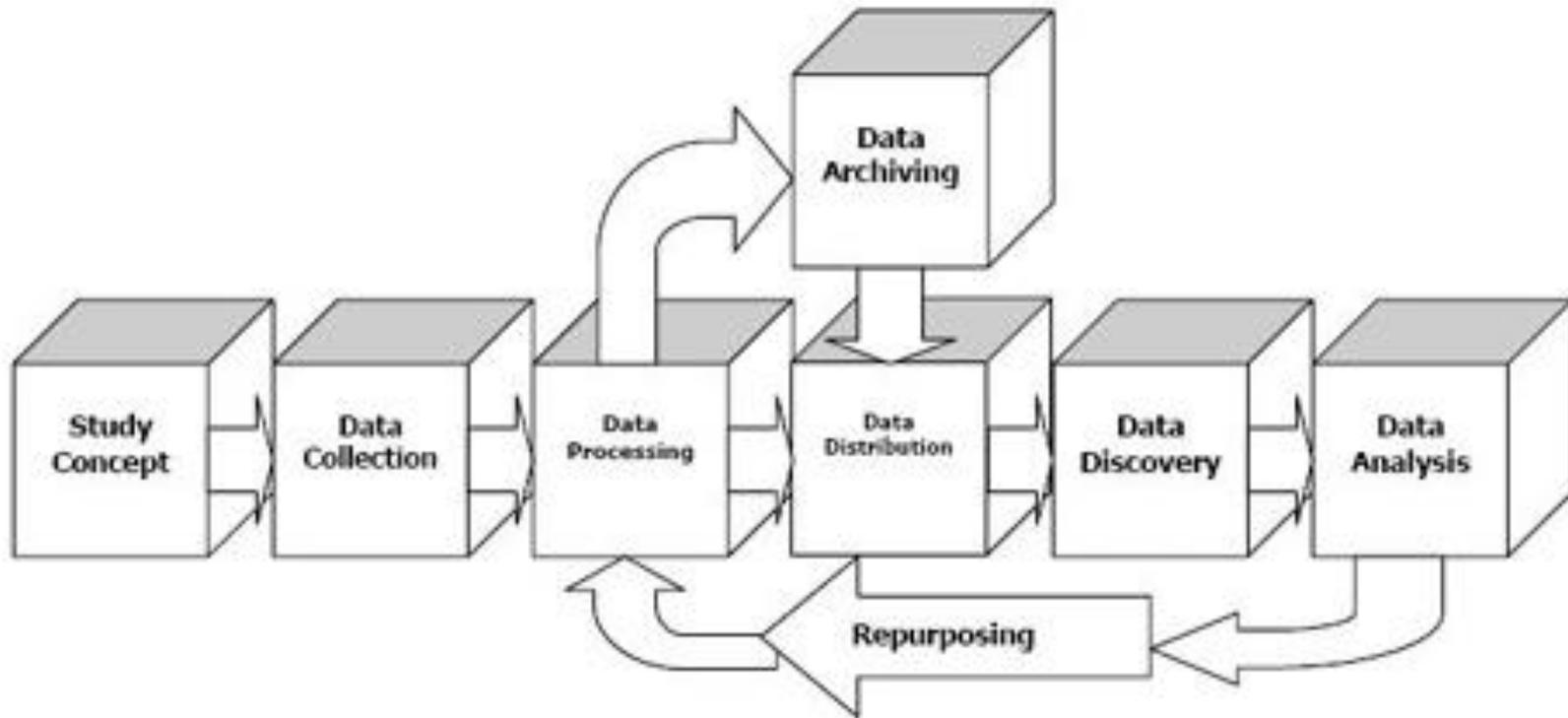
Work Flow of Cornell DataStaR



DataStaR, a Data Staging Repository (<http://datastar.mannlib.cornell.edu/>) hosted by Cornell University's Albert R. Mann Library, was conceived of as a platform and a set of services to facilitate data sharing among collaborators, and to enable faculty to publish digital data and high quality metadata to domain-specific repositories and institutional repositories.

<http://ecommons.cornell.edu/bitstream/1813/12668/1/iqvol313steinhart.pdf>

Data Lifecycle Adopted by MIT



Ensure usability/long-run/ preservation/access

- Make a Data Planning Checklist
- Create a Data Management Plan
- Follow guides to Data Management

<http://libraries.mit.edu/guides/subjects/data-management/>

Summary: Challenge & Opportunity for Librarians in the New Era of SC

- Support digital-publishing
- Provide self-publishing service
- Offer copyright consultation for faculty publications
- Provide data service and data literacy training
- Be sensitive to open access policies of scholarly information
- Work with various parties
- ...

Thanks!

Qing Li

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<http://www.ieee.org/go/clientservices>