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Scholarly Communication and Research Libraries

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Scholarly Communication and Research Libraries

Adrian K. Ho

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University of Kentucky Libraries

Jan. 9, 2016

This is a presentation at the Association of Research Libraries 12th Annual Leadership Symposium in Boston, MA. The URLs of the examples and resources mentioned are listed at the end.

A separate session at the Symposium addresses open access, open data, and open educational resources. Therefore, these topics are not covered in this presentation.



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Scholarly Communication

“the system through which research and other scholarly writings are created, evaluated for quality, disseminated to the scholarly community, and preserved for future use. The system includes both formal means of communication, such as publication in peer-reviewed journals, and informal channels, such as electronic listservs.”

[ARL: Scholarly Communication](#)

Stakeholders

- Scholars/Researchers (as authors, editors, reviewers, and readers)
- Publishers
- Libraries
- Higher education and research institutions
- Research funding agencies

Scholarly Communication Lifecycle

Generate → Review → Disseminate → Acquire



Scholarly Content



Assimilate ← Access ← Discover ← Archive

Depending on the mode of dissemination, some components may not exist.

Concerns over Scholarly Publishing

- Journals as crucial vehicles for knowledge sharing
- Institutions funding research and their libraries buying back published research
- Journal prices escalating, especially in scientific, technical, and medical fields
- “Big deal” electronic journal packages
- Licensing restrictions on access

Concerns over Scholarly Publishing

- Less library funding for purchasing monographs
- Limited sales of monographs
- Fewer opportunities for monograph publishing
- Problems for junior faculty and university presses

Other Issues

- Lengthy process for dissemination
- Internet as communication channel not fully utilized
- Licensing vs. Purchase and owning
- Changes in information-seeking behavior

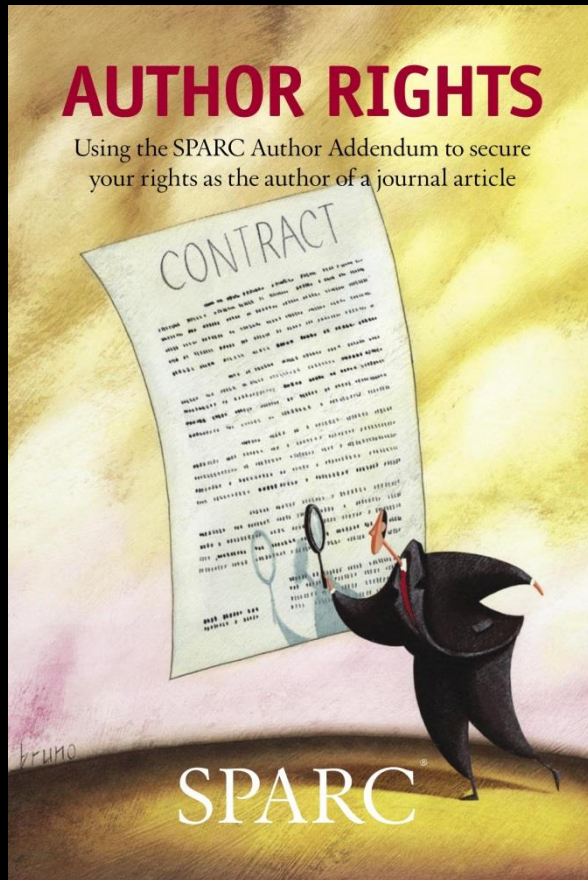
Forces that Affect Scholarly Communication

- Copyright law
- Technology

Copyright Issues

- Author's exclusive rights
- Transfer of rights to journal publishers
- Loss of control over one's own intellectual property
- Transfer of rights \neq All or nothing

Author Rights



A balanced approach to copyright management:

- Retain the rights you want
- Use and develop your own work without restriction

[SPARC: Author Rights](#)

Author Rights

- Increase access for education and research
- Receive proper attribution when your work is used
- If you choose, deposit your work in an open online archive where it will be permanently and openly accessible

[SPARC: Author Rights](#)

Fair Use

Use of a reasonable amount of a work may be considered fair:

- criticism
- comment
- news reporting
- teaching
- scholarship
- research

Best Practices in Fair Use



“This is a code of best practices in fair use devised specifically by and for the academic and research library community...”

Code of Best Practices in Fair Use for Academic and Research Libraries

Copyright Term

- Limit on copyright term to ensure the “common good”
- Publishers maximizing the value of rights transferred to them to increase profits
- Long copyright term not conducive to widest possible dissemination of research
- Reform of copyright law to meet the challenges of the networked environment


Technology

New models for scholarly communication:

- new form of presentation
- new business model
- new way for authors and readers to communicate
- new approach to peer review
- some combination of the above

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JoVE Search by keywords, for example: 'stem cells' Search Sign In



1 of 8

Flow-pattern Guided Fabrication of High-density Barcode Antibody Microarray

JoVE Journal (Impact Factor 1.325)













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 <p>Radiolabeling and Quantification of Cellular Levels of Phosphoino... Published Today</p>	 <p>Determination of Moisture Content in Soil</p>	 <p>Freezing Human ES Cells Published 10/12/2006</p>
 <p>Assessment of Boron Doped Diamond Electrode Quality and Applicati... Published Today</p>	 <p>Analysis of Earthworm Populations in Soil</p>	 <p>Dissection of Drosophila Ovaries Published 10/19/2006</p>
 <p>Isolation of Exosomes from the Plasma of HIV-1 Positive Individua... Published Yesterday</p>	 <p>Measuring Verbal Working Memory Span</p>	 <p>Assay for Adhesion and Agar Invasion in <i>S. cerevisiae</i> Published 11/08/2006</p>

JoVE, Journal of Visualized Experiments

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The Stanford Encyclopedia of Philosophy organizes scholars from around the world in philosophy and related disciplines to create and maintain an up-to-date reference work.

Principal Editor: [Edward N. Zalta](#)

[Masthead | Editorial Board](#)

The SEP would like to congratulate the [National Endowment for the Humanities](#) on its 50th anniversary and express our indebtedness for the five generous grants it awarded our project from 1997 to 2007. Readers who have benefited from the SEP are encouraged to examine the NEH's [anniversary page](#) and, if inspired to do so, send a testimonial to neh50@neh.gov.

SEP Executive Editors: [Edward N. Zalta](#), [Uri Nodelman](#), [Colin Allen](#)

Current Operations Are Supported By:

Stanford Encyclopedia of Philosophy

HyperCities Thick Mapping in the Digital Humanities

Todd Presner, David Shepard, and Yoh Kawano

with contributions by Phillip Ethington, Mike Blockstein, Reanne Estrada, Chris Johanson, Diane Favro, and Xàrene Eskandar

Harvard University Press



Launch HyperCities

READ
WRITE



```
if (document.readyState === 'complete') {
  // ...
}
else {
  // ...
}

```



Der Wiederaufbau in Berlin 1950 bis 1954

Map Title: The rebuilding in Berlin 1950 to 1954

URL: http://www.berlin.de/berlin/1950_begriff/

Location: Berlin

Author: Georg Westermann, Braunschweig; E. Zentrow

Publisher: Georg Westermann Verlag, Braunschweig

Time Period: 1950-01-01 00:00:00 to 1955-12-31 00:00:00

Collection: UCLA Brnham Map Collection

The LA Research Collection

A project that brings quantitative GIS data (demographic statistics) together with qualitative storytelling related to LA's Historic Filipinotown.

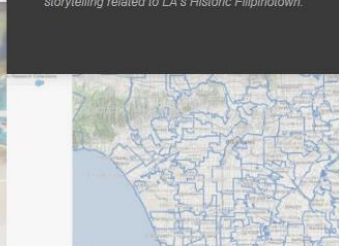
UB Productions

Media + Civic Engagement Program in Historic Filipinotown

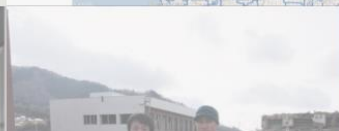
STORIES PERSONAL

```
/**
 * Initialize HyperCities Earth
 * @return void
 */
initEarth: function() {
  try {
    HyperCities.util.debug(_id + 'init() called.')}
  // Check necessary environments were enabled
  if (!HyperCities.util.checkEnv()) return;
}
```

Protesters setting up barricade against Basij l...



```
/**
 * Initialize HyperCities Earth
 * @return void
 */
initEarth: function() {
  try {
    HyperCities.util.debug(_id + 'init() called.')}
  // Check necessary environments were enabled
  if (!HyperCities.util.checkEnv()) return;
}
```



JULIAN ESTHER ZINN PUNT BORNIACT	8/7/24	MAY 42	28
ZOLTAN ZINN COUSIN	?	6/14 42	*
ADOLF (ABRAHAM) ZINN UNCLE	?	6/14 42	*
FRANCIS ZINN AUNT	?	6/14 42	*
MEYMAN ZINN BORN ZINN COUSIN	1/11 12	5/19 42	**
LOANNA ZINN COUSIN	?	5/19 42	**
JULIAN ZINN COUSIN	?	1942	20
EDITH ZINN COUSIN	?	MAY 42	25
MARTHA ZINN COUSIN	7/1923	MAY 42	28



HyperCities

Campus-Based Publishing

- Research libraries offering publishing services to campus constituents
- Services supported by reallocating resources, partnering with related services, and developing modest revenue streams
- Libraries generally focusing on the capabilities and possibilities of new publishing models
- [Library Publishing Coalition](#)

E-Research

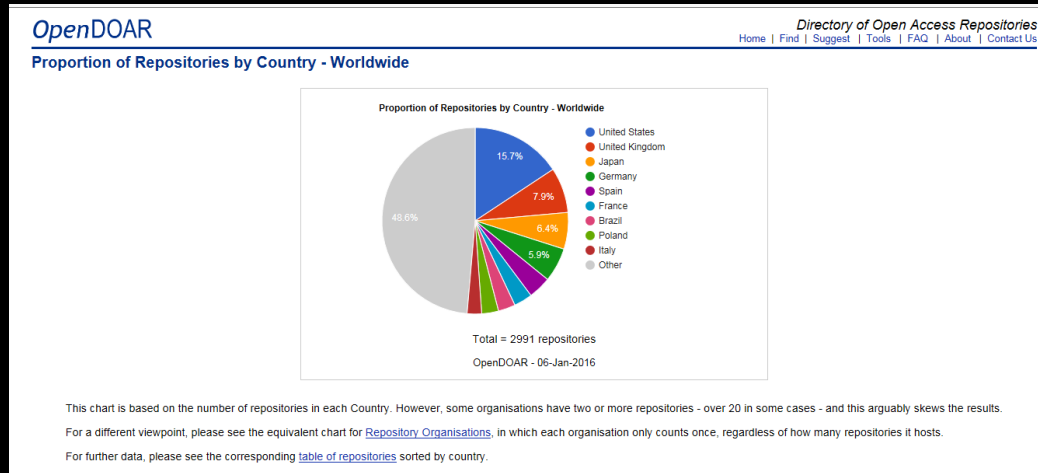
“computationally intensive, large-scale, networked and collaborative forms of research and scholarship across all disciplines, including all of the natural and physical sciences, related applied and technological disciplines, biomedicine, social science and the digital humanities.”

[ARL: E-Research](#)

Data Management and Curation

- Understanding of the relevance of data in the research lifecycle
- Understanding of cyberinfrastructure as the primary medium for scholars in all disciplines
- Growing number of libraries developing services to support research data management and curation

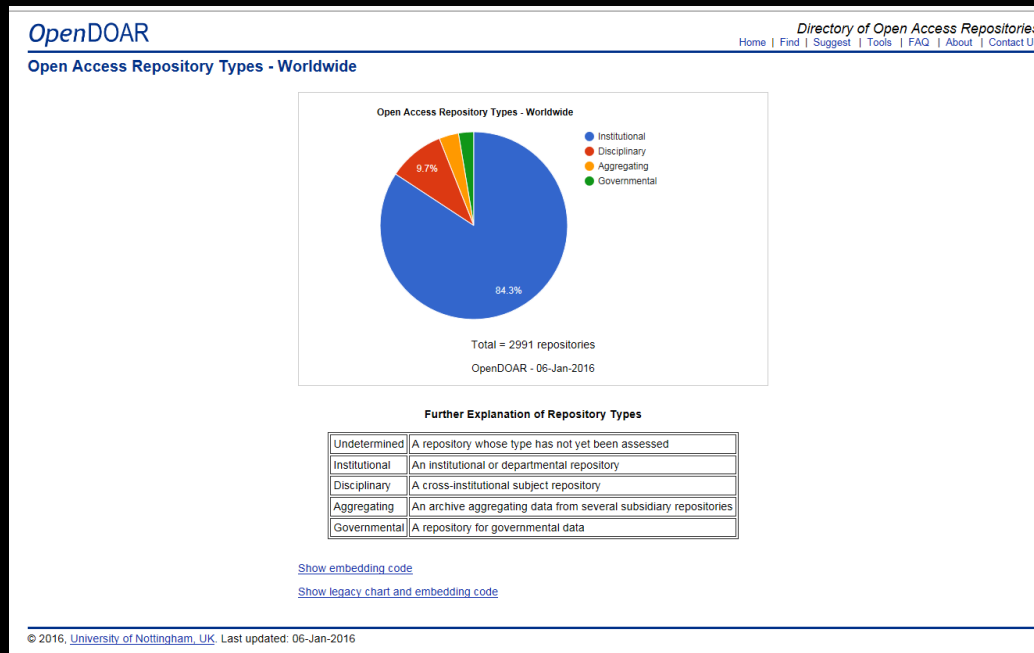
Digital Repositories



OpenDOAR

- Online infrastructure for collecting, organizing, archiving, and curating a wide range of digital works
- Also databases that enable users to search and freely access collected materials

Types of Digital Repositories



OpenDOAR

- Subject, data, or institution in focus
- SHARE (SHared Access Research Ecosystem)

Evolving Roles of Research Libraries

- Library services and operations embedded in scholarly communication
- Responsibility to ensure that scholarly communication is as healthy and efficient as it can be
- Opportunities to create change in higher education and research communities

Campus Engagement

- Partner with academic departments and/or research centers to host public events to proactively inform faculty, students, and university administrators of the latest development of scholarly communication, e.g., Research Without Borders Series at Columbia University Libraries

[ACRL Scholarly Communication Toolkit: Take Action](#)

Campus Engagement

- Inform faculty and university administrators of exorbitantly expensive journal packages and unreasonably restrictive licensing terms, e.g., [University of Montreal Libraries' explanation of the cancellation of Wiley journals](#)

[ACRL Scholarly Communication Toolkit: Take Action](#)

Campus Engagement

- Identify allies among faculty and students and collaborate with them to promote positive change in scholarly communication, e.g., Dr. Hal Abelson chaired a committee that formulated the institution-wide open access policy at MIT

ACRL Scholarly Communication Toolkit: Take Action

Campus Engagement

- Collaborate with the graduate school and/or office of research to host workshops on scholarly communication topics
- Connect and collaborate with library schools to prepare future information professionals to work in a new and evolving environment of scholarly communication

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Launch and administer an open access repository to archive and provide access to locally generated research and scholarly works, e.g., [Deep Blue](#) at the University of Michigan

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Provide library publishing services and publish open access scholarly content in collaboration with academic departments, research centers, faculty, and student groups, e.g., [eScholarship](#) at the University of California system

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Integrate concepts of scholarly communication into information literacy programs, writing classes, etc., e.g., information literacy instruction at North Carolina State University

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Develop a network of librarians who are knowledgeable about copyright law to advise faculty and students on their rights, options, and responsibilities, e.g., the [Copyright First Responders Program](#) at Harvard Library
[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Educate faculty and students about data literacy, provide advice on writing data management plans, and offer resources for managing, sharing, and curating research data for access and reuse, e.g., [research data services](#) provided by Purdue University Libraries

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Create a task force at the library to help librarians develop new skills and expertise in view of how research and scholarship are generated, disseminated, and consumed in the digital age, e.g., [The Developing Librarian Project](#) at Columbia University Libraries

[ACRL Scholarly Communication Toolkit: Take Action](#)

Realignment of Library Resources, Services, and Practices

- Refrain from signing licensing agreements that include terms that diminish fair use and the exceptions for libraries under copyright law

[ACRL Scholarly Communication Toolkit: Take Action](#)

Sharing your knowledge

- Ensure open access to your own publications (and presentations) by archiving them in a digital repository or by publishing in open access journals
- Share resources that work well in explaining scholarly communication issues to faculty, students, university administrators, and scholarly societies

[ACRL Scholarly Communication Toolkit: Take Action](#)

Examples and Resources Mentioned

ACRL Scholarly Communication Toolkit. Take Action:
What You Can Do to Make a Difference

http://acrl.ala.org/scholcomm/?page_id=25

ARL: E-Research

<http://www.arl.org/focus-areas/e-research>

ARL: Scholarly Communication

<http://www.arl.org/focus-areas/scholarly-communication>

Examples and Resources Mentioned

Code of Best Practices in Fair Use for Academic and Research Libraries

<http://www.arl.org/focus-areas/copyright-ip/fair-use/code-of-best-practices>

Copyright First Responders Program at Harvard Library

<https://osc.hul.harvard.edu/programs/copyright/first-responders/>

Examples and Resources Mentioned

Create Change

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

Deep Blue at the University of Michigan

<http://deepblue.lib.umich.edu/>

The Developing Librarian Project at Columbia University
Libraries

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

Examples and Resources Mentioned

eScholarship at the University of California system

https://escholarship.org/about_escholarship.html

HyperCities

<http://www.hypercities.com/>

Journal of Visualized Experiments

<http://www.jove.com/>

Examples and Resources Mentioned

Library Publishing Coalition

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

MIT Open Access Policy

<https://libraries.mit.edu/scholarly/mit-open-access/open-access-at-mit/mit-open-access-policy/>

OpenDOAR (Directory of Open Access Repositories)

<http://opendoar.org/>

Examples and Resources Mentioned

Research data services provided by Purdue University Libraries

<https://www.lib.purdue.edu/researchdata>

Research Without Borders Series at Columbia University Libraries

<http://scholcomm.columbia.edu/events/>

Examples and Resources Mentioned

SHARE (SHared Access Research Ecosystem)

<http://www.share-research.org/>

SPARC: Author Rights

<http://www.sparc.arl.org/resources/authors/addendum>

Stanford Encyclopedia of Philosophy

<http://plato.stanford.edu/>

Examples and Resources Mentioned

University of Montreal Libraries' explanation of the cancellation of Wiley journals

(Annulation d'abonnements à la majorité des périodiques de la collection Wiley Online Library)

<http://www.bib.umontreal.ca/communiqués/20140115-DB-annulation-periodiques-wiley.htm>

Examples and Resources Mentioned

“Why Does Google Scholar Sometimes Ask for Money?”
Engaging Science Students in Scholarly Communication
and the Economics of Information

(information literacy instruction at North Carolina State
University)

<http://dx.doi.org/10.1080/01930821003667021>

<http://surface.syr.edu/sul/78/>

Relevant Readings and Resources

ACRL Scholarly Communication Toolkit

<http://acrl.ala.org/scholcomm/>

Assessing the Future Landscape of Scholarly Communication: An Exploration of Faculty Values and Needs in Seven Disciplines

<http://escholarship.org/uc/item/15x7385g>

Relevant Readings and Resources

Campus-based publishing

<http://www.sparc.arl.org/initiatives/campus-based-publishing>

Common Ground at the Nexus of Information Literacy and Scholarly Communication

http://www.ala.org/acrl/sites/ala.org.acrl/files/content/publications/booksanddigitalresources/digital/commonground_oa.pdf

Relevant Readings and Resources

Copyright^x Lectures (videos)

<http://copyx.org/lectures/>

Current Models of Digital Scholarly Communication

<http://www.arl.org/storage/documents/publications/digital-sc-models-report-2008.pdf>

Data Information Literacy

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

Relevant Readings and Resources

e-Science Portal

<http://esciencelibrary.umassmed.edu/>

Getting the Word Out: Academic Libraries as Scholarly Publishers

http://www.ala.org/acrl/sites/ala.org.acrl/files/content/publications/booksanddigitalresources/digital/9780838986981_getting_OA.pdf

Relevant Readings and Resources

Improving the Future of Research Communications and e-Scholarship

<https://www.force11.org/sites/default/files/files/Force11Manifesto20120219.pdf>

New Librarians and Scholarly Communication: Get Involved

<http://crln.acrl.org/content/68/3/155.full.pdf+html>

Relevant Readings and Resources

New Roles for New Times: Transforming Liaison Roles in Research Libraries

<http://www.arl.org/storage/documents/publications/nrn-t-liaison-roles-revised.pdf>

Principles and Proposals for Copyright Reform

<http://www.authorsalliance.org/principles-and-proposals-for-copyright-reform/>

Relevant Readings and Resources

Scholarly Communication: A Lament and a Call for Change

<http://dx.doi.org/10.1353/pla.2012.0025>

<http://hdl.handle.net/1903/12873>

Scholarly Communication Column, *College & Research Libraries News*

<http://bit.ly/1CoTPKO>

Relevant Readings and Resources

SPARC Initiatives

<http://www.sparc.arl.org/initiatives>

SPEC Kit 349: Evolution of Library Liaisons

<http://publications.arl.org/Evolution-Library-Liaisons-SPEC-Kit-349/>

Stay Informed

ACRL Scholarly Communication Discussion List

<http://www.ala.org/acrl/issues/scholcomm/scholcommdiscussion>

ARL on Twitter

<https://twitter.com/ARLnews>

LIBLICENSE Discussion Forum

<http://liblicense.crl.edu/>

Stay Informed

Open Access Tracking Project

<https://plus.google.com/+PeterSuber/posts/Wkr8GZPy2UN>

Re:Create Coalition Blog

<http://www.recreatecoalition.org/blog/>

The SPARC Weekly

http://paper.li/SPARC_NA/1334596809

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