# TRAINING AND HIRING THE NEXT GENERATION

New directions in (academic?) librarianship and information education

Maria Bonn, Senior Lecturer, Graduate School of Library and Information Science, University of Illinois
Faculty, Affiliate, Center for Informatics Research in Science and Scholarship

# What they said. And . . .

- Aligning mission, market and education
- Scholarly Communication support
- Publishing and libraries
- Research Data services
- Supporting open and online learning

# Scholarly Communication Support

“Scholarly communication is redundancy. There is no scholarship without communication. When I write something, it’s not to make money, I write so somebody will read it. I just want to get it out there and be easily found.”

– Sidney Verba, Harvard University Faculty of Arts and Sciences, quoted in SPARC Innovators, June 2008.

# What does a scholarly communications librarian do?

- implement, manage, and promote the University's institutional repository
- education and advocacy: "The Scholarly Communications Librarian will manage . . . efforts to support scholarly publication innovations and reforms" . . . "provide campus-wide advocacy for Open Access to scholarly works and convey the University's vision of Open Access in various campus and national forums and publications"
- "Serve as a resource on local and national policy to help the University community stay informed about and engaged with the changing landscape for scholarly communication."

# And what should a scholarly communication librarian know ?

- Copyright law and its implications
- How to read an author contract and understand its ramifications.
- About standard and emerging modes of scholarly communication
- About the economies of scholarly communication and ways of measuring impact and prominence, especially through digital channels;  how to understand and generate “altmetrics”
- About  the role of digital technology and networked communication in the disciplines (E-science or digital humanities)
- Best practices in data management and curation
- The ways and means of formal publishing
- The challenges and opportunities of digital repositories – both disciplinary and institutional.

# Publishing

"publish or perish" . . . is more virtuous than sadistic. Publish or don't waste our time. If we can't retrieve what you have learned, you have violated your implicit scholarly oath . . . if we don't publish we risk that the value of what we do — including economic value — will perish. Publication as a requirement of our craft is fully legitimate.

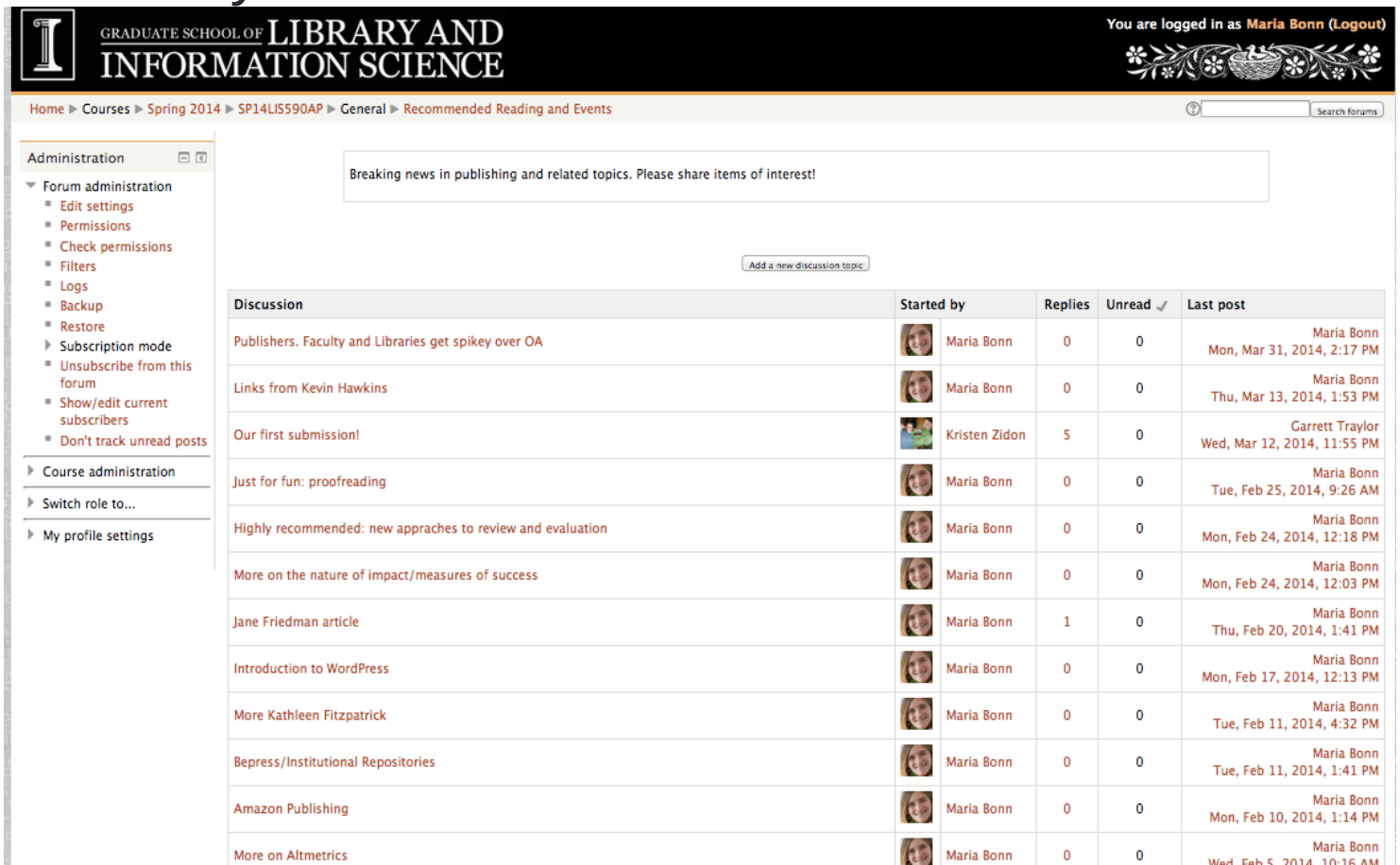
Courant, Paul. Scholarship and Academic Libraries (and Their Kin) in the World of Google. First Monday. August, 2006.

# And what should publishing libraries know about?

- Acquisition/selection
- Development
- Production
- Promotion/Marketing
- Distribution
- Assessment: measures of success for both author and publisher

# PUBLISHING

Are we educating and training a generation of professionals that can participate in the creation and curation of the scholarly record?



# RESEARCH DATA SERVICES

- **Abstract**
- Data curation services in libraries are poised to help make strides in science data publishing. A chief objective of data curation is ensuring that data are shareable. To provide curation services for research data is, in part, to foster channels of access to those data, such as through citation and publication. This chapter teases out the synergy between publishing services and data curation services in libraries. It reports on the current status of each type of service, providing context and drawing out comparisons between library publishing and data publishing. The complications surrounding peer review of data sets are also examined. Such background sets the stage for assessing the state of data publishing in the sciences by looking in brief at data policies currently enacted by journal publishers for associating articles with data sets, data repositories that publishers and researchers use for linking data with publications, and the genres of the data journal and the data paper. It also captures briefly what some programs and services in publishing and data curation at academic libraries are currently accomplishing in data publishing. As the chapter suggests, the paradigm for publication of data in the sciences seems always to be shifting. The goal of the chapter, however, is to lay a foundation for understanding scientific data publishing, as well as the role that data curation services in libraries can play in it.
- (Patricia Hswe, forthcoming)

# RESEARCH DATA SERVICES

- **Director, Research Data Service, University Library University of Illinois at Urbana-Champaign**
- 
- **Position Available:** The expected start date is as soon as possible after the closing date. This is a 100%, twelve-month, tenure-system appointment.
- **Responsibilities:** The Director of the Research Data Service provides leadership and direction for the newly-established campus-wide Research Data Service (RDS) at the University of Illinois at Urbana-Champaign. The RDS is a campus-wide service headquartered in the University Library that provides support to researchers to manage, preserve, and make their data accessible to the research community. The RDS provides support for campus researchers, colleges, research centers and groups, in partnership with the University of Illinois Office of the Vice Chancellor for Research (OVCR), CITES (Campus Information Technologies and Educational Services), NCSA (National Center for Supercomputing Applications), Office of the Provost, and GSLIS (Graduate School of Library and Information Science).
- The Director is responsible for leadership, management, and planning for the programmatic, administrative, and operational activities of the RDS for the University. Reporting to the Associate University Librarian for Research and Technology, the Director works closely with campus committees and groups that provide advice and oversight for RDS programs and services. The Director leads an implementation and operational group of faculty and staff, and consults regularly with faculty and staff across the campus stakeholder units, as well as the Library, on the development of the RDS. The initial emphasis of the position will be to: plan and identify program objectives and scope; formulate program goals, policies, and processes; identify staffing, operational, and resource needs; and implement the operational elements of the RDS.

# RESEARCH DATA SERVICES

- **Director, Research Data Service, University Library University of Illinois at Urbana-Champaign**

Duties include:

- Lead and manage the efforts of staff supporting the Research Data Service program, and the associated data management activities in the University Library, CITES, NCSA, and allied units;
- Consult regularly with campus stakeholders, including a campus-level oversight committee and a steering group that may be established to guide service and policy development for the RDS;
- Coordinate and support the RDS-related activities of Library faculty and staff who contribute to research data management, curation, preservation and access. This includes subject specialists, data services librarians and functional liaisons (archivists, curators, preservation professionals, metadata professionals, and IT professionals) and related Scholarly Commons programs. Works closely with the Library eResearch Implementation Committee on the development of user-focused research data programs and services for the campus.
- Develop effective partnerships with units that contribute services;
- Ensure consistent levels of research data management services through cross-program coordination on campus. .
- Identify strategies for understanding the evolving research data curation and service needs of the University's researchers;
- Evolve and modify the program scope, services, and best practices of the RDS so as to be consistent with the goals and mission of the Library and campus;
- Coordinate with, other campus units, such as CITES, OVCR, NCSA, GSLIS.
- Seek partnerships with other organizations, within and beyond the University, including Internet2, CIC (Committee for Institutional Cooperation), Digital Library Federation, Research Data Alliance, disciplinary repositories, and national data management organizations and initiatives;
- Play a national role in data management and services initiatives;
- Contribute to the growing body of research literature in various aspects of data services and related endeavors.

# RESEARCH DATA SERVICES

- **Research Data Services Manager, University of Michigan Libraries, Ann Arbor**

The Research Data Services Manager will help build and enhance Research Data Services (RDS), which are responsible for strategic planning, coordination, and deployment of research data services directed at facilitating the research lifecycle. This includes creating and implementing data-management assistance for the campus, outreach to faculty in collaboration with subject specialists, training, and assessment of RDS programs and services. The Research Data Manager will provide leadership in the selection, creation and maintenance of the library data-management solution, and participate in library-wide strategy and planning for data services and policies.

# Curriculum Support:

CIRSS Center for Informatics Research in Science and Scholarship

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## Digital Collections and Curation

CIRSS projects in this sector focus on how to build, represent, and make accessible research collections, with a particular focus on the challenges and opportunities associated with the curation and federation of digital collections for long-term, distributed use. The ongoing funded research projects are complemented by a study group dedicated to metadata standards and associated research problems.

***Contact***
*Carole L. Palmer (clpalmer@illinois.edu)*
*Director, Center for Informatics Research in Science and Scholarship*

### People

Abigail Asangba
Karen Baker
Tiffany Chao
Sayeed Choudhury

### Projects

**Data Curation Education in Research Centers Program (DCERC)**
The Data Curation Education in Research Centers (DCERC) will develop a model for educating Library and Information Science masters and doctoral students in data curation through field experiences in research and data centers. We will implement a graduate research and education program in data curation to bring students into the world of scientific data curation. Building on the strengths of our partners-the University of Illinois Urbana-Champaign Graduate School of Library and Information Science, the University of Tennessee School of Information Sciences, and the National Center for Atmospheric Research, we address needs for research expertise and scientific data curation professionals.

A video that gives an overview of DCERC is available here.

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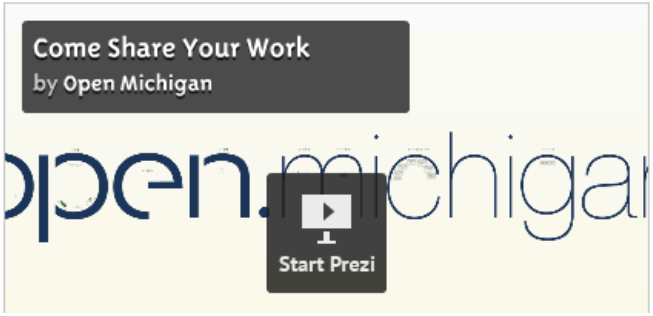

In 2012, Open.Michigan received the Education Portal People's Choice Award for Most Open Resource.

Previous Terms

› spring 2013
› fall 2011

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literature, science and the arts

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› aaptis/menas 491 - modern islamic movements in comparative perspectives
› aaptis/menas 493 - designing nations: maps and statistical modeling in the middle east
› chemistry 125/126 - general chemistry laboratory 1
› chemistry 216 - the synthesis and characterization of carbonyl compounds
› chemistry 538 - organic chemistry of

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# Statistics 250 - Introduction to Statistics and Data Analysis

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Overview | Materials

**Term:** Winter 2014
Download all materials

**Published:** July 15, 2013
**Revised:** January 2, 2014

› Handouts
› Labs
› Miscellaneous
› Student Lecture Notes

Keywords: mathematics open textbooks quantitative analysis SPSS statistics

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## Handouts

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chemistry 538 - organic chemistry of macromolecules
chemistry 540 - physical organic chemistry
complex systems 200 / coursera - model thinking
english / coursera - fantasy and science fiction: the human mind, our modern world
english 367 - shakespeare's principal plays
history 373 - history of the american west
honors 352 - cyberscience: computational science and the rise of the fourth paradigm
math 679 - elliptic curves
physics 140 - general physics 1
pubpol/physics 481 - national science policy in the 21st century
spanish 103 - review of elementary spanish
spanish 277 - reading, grammar, and composition
statistics 250 - introduction to statistics and data analysis

## Handouts

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## Labs

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| Workbook: Full Text | Brenda Gunderson | | |
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| Workbook 07: Supplement 4 - Editing Charts in SPSS | Brenda Gunderson | | |
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| Workbook 09: Supplement 6 - Interpretation Examples | Brenda Gunderson | | |
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# By Dr. Brenda Gunderson - Statistics 250 Lab Workbook Fall 2013 - Winter 2014 (7/13/13)

Paperback – July 13, 2013

by Dr. Brenda Gunderson (Author)

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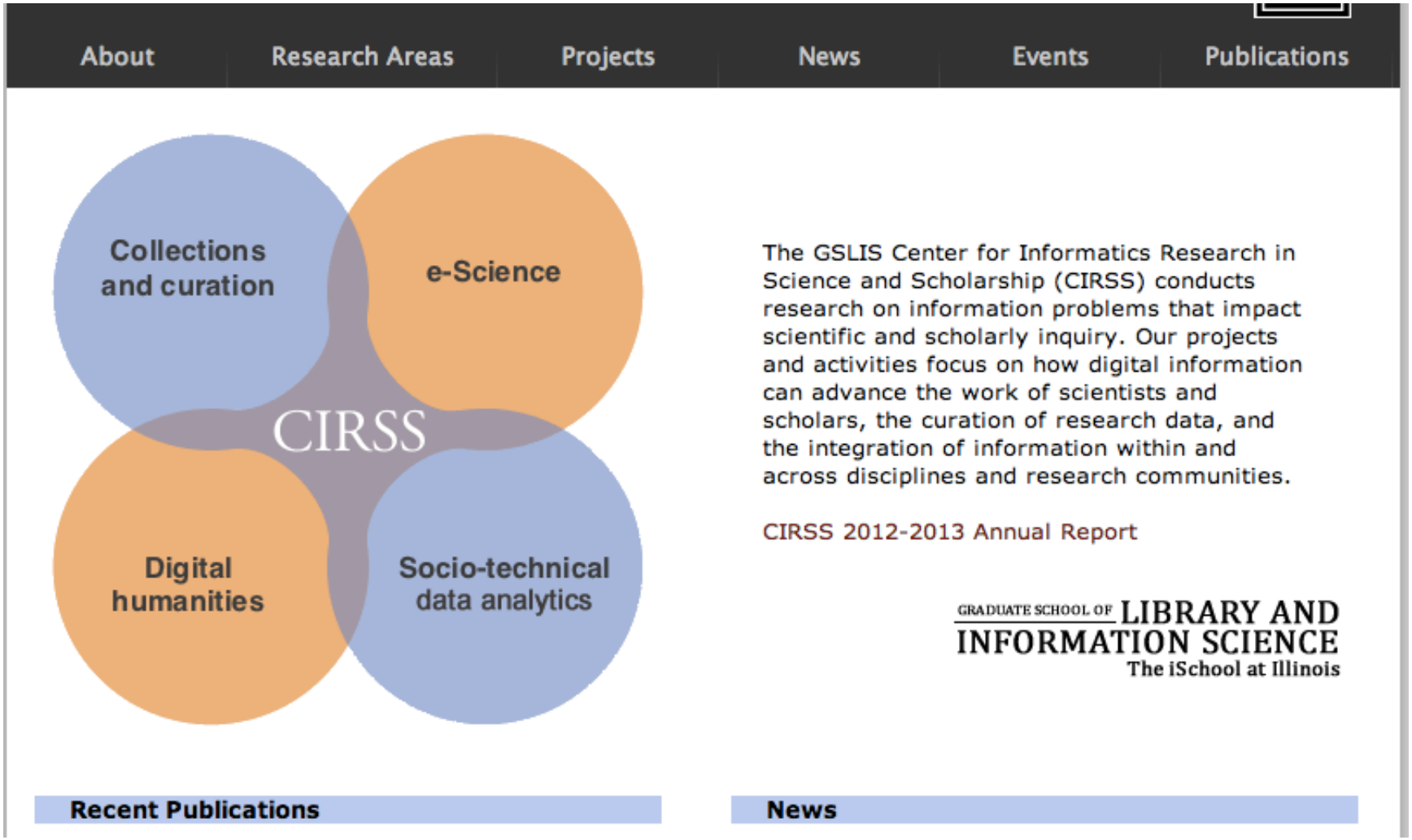
# Curricular support for new directions



# Some data to show the way the wind is blowing ( Ithaka S+R US Library Survey 2013)

Of the 123 directors from doctoral institutions responding to the study:

- 30% indicated “publishing scholarly publications” as a high priority.
- 45% indicated helping faculty to manage add preserve datasets” is a high priority
- 65% indicated providing an institutional repository is a high priority

Given an extra 10% in their budgets:

- 20% would invest in publishing or scholarly communication initiatives

(more than the 8% who would buy additional rare books or the 18% who would buy additional print monographs)

# The (A?) New Face of Librarianship?

**EDUCATION**

M.S. in Library and Information Science
Specialization in Data Curation
University of Illinois at Urbana-Champaign

M.A. in History
Graduate Certificate in Digital Humanities
Minor in Women's and Gender Studies
University of Nebraska-Lincoln

B. A. in History
Minor in Sociology
University of Nebraska-Lincoln

**RESEARCH INTERESTS**

Digital Humanities, Digital Archives, Cultural Heritage, Social and Cultural History

# The (A?) New Face of Librarianship?

## Now Hiring: Digital Social Science and Humanities Specialist

10 SEPTEMBER ON ANNOUNCEMENTS

**The Department of History at Michigan State University** is currently seeking a specialist in Digital Social Science and Humanities to coordinate its new digital initiative, **LEADR** (Lab for the Education and Advancement in Digital Research).

The successful candidate will have knowledge of digital research methods and tools; experience developing collaborative research projects; strong oral and written communications skills; expertise with website development and design; and the ability to work with students and faculty members.The full time, annual year position is renewable annually, contingent upon funding and job performance. Salary is commensurate with experience. Travel and research budget negotiable.

**LEADR** is a joint, forward-looking, student-centered venture of **MSU History** and **Matrix.** The cutting-edge lab will be housed in Old Horticulture Hall, home of the MSU History Department. It will be a place for History and other MSU undergraduate and graduate students to develop innovative digital and web-based projects in collaboration with other students, faculty, and the digital humanities specialist who manages the lab.

**Duties**
Establishing and managing LEADR;
Working with students and faculty members on digital research projects;
Working with Matrix and History faculty and students on grant applications;
Managing graduate and undergraduate lab employees;
Working with faculty to develop curriculum around LEADR;
Working with faculty to develop undergraduate internships around LEADR.
If the successful applicant has a PhD in History, which is not a requirement, the job could involve offering an undergraduate course.

**Preferred Qualifications**
Advanced degree (MA, PhD or ABD in a PhD program) in digital humanities, social sciences, library information, history or other humanities fields;
Knowledge of data mining and data visualization research and tools;
Knowledge of website or software development methodologies and applications.