

Ninth Annual University of Massachusetts and New England Area Librarian e-Science Symposium

Thursday, April 6, 2017
University of Massachusetts Medical School
Worcester, MA



Libraries in Data Science: Addressing Gaps and Bridges



Lamar Soutter Library
A Leader in Service and Learning



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Event Information

8:15 – 10:15 **Poster Session, Registration, Breakfast and Networking**
Medical School Lobby

10:15 – 10:30 **Welcome** *Faculty Conference Room*

10:30 – 11:30 **Keynote: An Impact Agenda for Biomedical Libraries**
Kristi Holmes Northwestern University

11:30 – 11:45 **Break**

11:45 – 1:00 **Breakout Session One**

Data Repositories Workshop | *Faculty Conference Room*
Andrew Creamer, Hope Lappen and Neil Sarkar, *Brown University*
Education & Training Workshop | *Lamar Soutter Library Classroom*
Sophie Hou *UCAR* and Nancy Hoebelheinrich *Knowledge Motifs*
Education & Training Presentation | *Amphitheater II S4-102*
Shea Swauger *University of Colorado - Denver*
Institutional Models Presentation | *Amphitheater III S6-102*
Christine Malinowski and Phoebe Ayers *MIT*

1:00 – 2:00 **Lunch** *Faculty Conference Room*
Poster Session *Medical School Lobby*

2:00 – 3:15 **Breakout Session Two**

Data Repositories Workshop | *Faculty Conference Room*
Andrew Creamer, Hope Lappen and Neil Sarkar, *Brown University*
Education & Training Workshop | *Lamar Soutter Library Classroom*
Sophie Hou *UCAR* and Nancy Hoebelheinrich *Knowledge Motifs*
Education & Training Presentation | *Amphitheater II S4-102*
Shea Swauger *University of Colorado - Denver*
Institutional Models Presentation | *Amphitheater III S6-102*
Christine Malinowski and Phoebe Ayers *MIT*

3:15 – 3:30 **Break**

3:30 – 4:30 **Panel: Creating Connections With Your Community**
Sally Gore *University of Massachusetts Medical School*
Daina Bouquin *Harvard-Smithsonian Center for Astrophysics*
Audrey Mickle *Woods Hole Oceanographic Institution*
Yvette Woell *Argonne Research Library*

4:30 – 4:45 **Wrap-up and Closing Remarks** *Faculty Conference Room*

Event Information

This symposium will encourage libraries and librarian's collaboration with, and support for, data science initiatives at their institutions. Librarians will have the opportunity to discuss partnerships, community engagement and future roles libraries and librarians can take on to support research data services their institutions.

Twitter Hashtag: #escisym17

- **Poster Session**

Posters on display highlight current research projects in data science. The longer poster session in the morning will be an opportunity for symposium participants to interact with each other and poster presenters.

- **Keynote Presentation**

The Keynote will be delivered by Kristi Holmes, PhD, Director, Galter Health Sciences Library, Feinberg School of Medicine, Northwestern University. Kristi will discuss growing collaborations in data science and the impact this holds for biomedical libraries.

- **Breakout Sessions**

Attendees will participate in two breakout sessions. Please attend the session as indicated on your name badge. These smaller presentations will allow participants to engage in directed discussions with librarians actively involved in a certain area of research data services.

- **Moderated Panel**

This afternoon panel will feature three examples of librarians involved in data science at their libraries or institutions. Panelists will discuss strategies for building a network, outreach in different communities, and challenges faced related to offering data services.

Event Information

Poster Presentations:

Education & Training

Expanding Data Management Service Boundaries at Johns Hopkins University

David Fearon

Johns Hopkins University

Library support for clinical and translational research: research data management and data science

Melissa Funaro, Denise Hersey & Kate Nyhan

Yale University

Developing Data Information Literacy with the Institutional Review Board

Alyson Gamble

New College of Florida

eScience Thesaurus 2.0

Tess Grynoch

University of Massachusetts Medical School

A Sloth of Gummi Bears: Evaluating effectiveness of research data management instruction

Rebecca Reznik-Zellen & Lisa A. Palmer

University of Massachusetts Medical School

Event Information

Poster Presentations:

Funding Agencies

Tackling New Federal Agency Public Access Mandates at the University of Arizona

Ahlam Saleh, Christine Kollen, Dan Lee, Scott Pryor & Lori Schultz
University of Arizona

Comparing the NIH and the NSF's take on the 2013 OSTP Public Access and Open Data Memoranda

Thea Atwood
University of Massachusetts Amherst

Institutional Models

Building Faculty Research Data Services at Mount Holyoke College

Julie Adamo, Nick Baker, James Burke, Mary Glackin & Sarah Oelker
Mount Holyoke College

Hybrid Data Services Librarians: A concept for integrating a data services librarian into an existing role

Zachary Painter
University of Massachusetts Dartmouth

Event Information

Breakout Sessions:

Data Repositories Workshop: Adapting the Library Repository to Accommodate Research Data, Publications, and Partnering with Researchers

Presenters: Andrew Creamer, Hope Lappen and Neil Sarkar, *Brown University*

Additional project members: Erika Severson, *Brown University*

Brown University Library originally created the Brown Digital Repository (BDR) in 2011 to serve the digital content storage and dissemination needs of its Special Collections and Center for Digital Scholarship (CDS). Since then, the BDR has evolved to serve a broader group of stakeholders, including the science librarians, who deposit researchers' data along with the supplementary materials underlying their publications, collections of data to comply with a grant-funder's requirements for data sharing, and faculty publications. This workshop will address: faculty perspectives academic libraries should have in mind when developing or updating their repositories, ways libraries can develop infrastructure to partner with their faculty, ways that libraries could integrate their repositories into existing systems, and ways that libraries can adapt their repositories to measure the impact of their researcher communities.

Institutional Models Presentation: Managing data management: building a RDM service at MIT Libraries

Presenters: Christine Malinowski and Phoebe Ayers, Massachusetts Institute of Technology

The MIT Libraries' Data Management Services Program (DMS) provides services in research data management (RDM) – including assistance with creating data management plans, individual RDM consultations for individuals and labs, and workshops on RDM best practices and technologies.

In this presentation, the presenters will provide an overview of how the MIT Libraries DMS team works, some examples of our recent projects and consultations, our specific (but certainly generalizable) challenges of providing and expanding RDM services, and the tools that we use to meet those challenges and ensure speedy and accurate service.

Event Information

Education & Training Workshop: Collaborative Clearinghouse for Data Management Training and Education Resources

Presenters: Sophie Hou, *National Center for Atmospheric Research/University Corporation for Atmospheric Research* and Nancy Hoebelheinrich, *Knowledge Motifs, LLC*

Additional project members: David Bassendine, *Blue Dot Lab*; John C. Nelson, Tamar Norkin and John Faundeen, *U.S. Geological Survey*; Amber Budden, *DataONE/University of New Mexico*; Matthew S. Mayernik, *National Center for Atmospheric Research/University Corporation for Atmospheric Research*; and Erin Robinson, *Federation of Earth Science Information Partners*

The main objectives of this breakout session are for the Data Management Training (DMT) Clearinghouse team to: introduce the Clearinghouse and its current design and implementation, solicit submissions to its learning resource inventory, and collect feedback upon its web interface and future development.

Features of the Clearinghouse that will be demonstrated include how to search and browse its inventory as well as submit a learning resource to the Clearinghouse using the LRMI (Learning Resource Metadata Initiative) metadata format. In order to provide feedback regarding the Clearinghouse's usability, the team will invite the session attendees to test the Clearinghouse's services and will encourage comments to guide its future development.

Education & Training Presentation: Sex, Lies, and Data

Presenter: Shea Swauger, University of Colorado - Denver

The objective of this presentation is to demonstrate how current research ethics procedures can fail to achieve meaningful consent from human subjects in new data-related research areas, and additionally, to provide a supplementary framework that researchers can use to define meaningful consent in future work.

Shea will illustrate failures of current research ethics involving consent using three case studies: Facebook's emotional contagion study, OkCupid's internal user studies, and studies that use hacked Ashley Madison user data.

Speaker Biographies

Keynote:

Kristi Holmes, PhD @kristiholmes

Director, Galter Health Sciences Library, Feinberg School of Medicine
Northwestern University

Kristi Holmes, PhD is the Director of Galter Health Sciences Library and an Associate Professor in the Department of Preventative Medicine (Health and Biomedical Informatics) and the Department of Medical Education at Northwestern University's Feinberg School of Medicine. Dr. Holmes leads evaluation activities for several programs, including the Evaluation and Continuous Improvement Program in the Northwestern University Clinical and Translational Sciences Institute (NUCATS), in addition to serving on its executive committee. In her role as director of Galter Library, she is excited to have an opportunity to help define new roles and opportunities for the modern biomedical research library in an increasingly informatics and data-driven environment.

Breakout Session Leaders:

Andrew Creamer, MSLIS, MAEd @AndyDrewCreamer

Scientific Data Management Specialist
Brown University

Andrew Creamer is the scientific data management librarian at the Brown University Library. He helps faculty and student researchers with writing data management and sharing plans, with digital curation projects, and with depositing their digital research products into sharing repositories. Andrew provides outreach for the Brown Digital Repository, the BDR, which is Brown Library's repository. He assists faculty and student researchers in the sciences with documenting and depositing their digital research products (e.g., data sets, software, and metadata) resulting from sponsored research into the BDR and with citing these deposited digital products in their publications. Andrew co-chairs the Brown Library's scholarly communications working group.

Speaker Biographies

Hope Lappen, MLIS @hopelappen

Scholarly Resources Librarian — Biomedical & Life Sciences

Brown University

Hope Lappen is the Biomedical & Life Science Librarian at the Brown University Library. She is liaison to the basic science departments in the Division of Biology as well as to cognitive, linguistic and psychological sciences, providing instruction and support to faculty and students in locating literature and data and utilizing tools such as Entrez and BLAST. In addition, she provides instruction and support in public access compliance, author's rights, open access, and reproducibility of research. Prior to her career in libraries, she worked as a taxonomist and in software quality assurance. Hope co-chairs the Brown Library's scholarly communications working group.

Neil Sarkar, PhD, MLIS, FACMI @insarkar

Director of the Brown Center for Biomedical Informatics

Brown University

Neil Sarkar is the Founding Director of the Brown Center for Biomedical Informatics, Associate Professor of Medical Science, and Associate Professor of Health Services, Policy & Practice at Brown University. His work is dedicated to furthering biomedical informatics educational and research agenda across the entire spectrum of biomedicine, from molecules to populations. Dr. Sarkar's work has been funded by sources such as the National Science Foundation, the Ellison Medical Foundation, the Medical Library Association, and the National Library of Medicine at the National Institutes of Health. He has been an author on over 90 peer-reviewed articles, which span topics from comparative genomics using phylogenetic approaches to population-level trend detection and predictive modeling in clinical and public health contexts.

Speaker Biographies

Sophie Hou, MSLIS @AtmosNews

Data Curator & Steward Coordinator

University Corporation for Atmospheric Research

Sophie Hou is the Data Curation & Stewardship Coordinator at the National Center for Atmospheric Research (NCAR)/University Corporation for Atmospheric Research (UCAR). At NCAR/UCAR, Sophie focuses on providing dedicated support, engagement, and training for questions and issues that NCAR/UCAR scientific researchers might encounter when working with data (including software tools and model codes). Additionally, Sophie collaborates with and participates in both internal and external data curation-centric communities and activities, including NCAR Data Stewardship Engineering Team and the Earth Science Information Partners, to help share experiences and key lessons learned, especially relating to data management infrastructures and best practices. Sophie has a MSLIS with the specialization in Data Curation from the University of Illinois, Urbana-Champaign, and prior to joining NCAR, Sophie's Bachelor and Master of Science degrees and professional work experience were in the field of Electrical Engineering.

Nancy Hoebelheinrich, MLIS @nhoebelh

Principal Owner

Knowledge Motifs LLC

Nancy J. Hoebelheinrich is a digital library, archives and data repository consultant specializing in geospatial and cultural heritage resources. Nancy is currently founder and owner of Knowledge Motifs LLC whose recent clients have included the Foundation for Earth Science, California State Library, American Geophysical Union, California Historical Society, California Digital Library, Library of Congress, and Stanford University Libraries. Prior to founding Knowledge Motifs LLC, Nancy worked in school, public, academic research and law libraries including, Stanford University Libraries where she focused upon digitization, preservation, retrieval and data management of cultural heritage resources, government documents, geospatial data, and teaching/learning resources. She has a MLIS from the University of Washington, an undergraduate degree in a self-designed major in Social Sciences & Humanities from Stanford University, and an advanced career certificate in GIS from Foothill College in Los Altos, CA.

Speaker Biographies

Christine Malinowski, MS, MLIS @ChrisMalinow

Research Data Librarian

Massachusetts Institute of Technology

Christine Malinowski is the Research Data Librarian at MIT. She previously held positions as Fellow for Research Data Management, also at MIT, and Science & Data Services Librarian at Lewis & Clark College in Portland, Oregon. Before transitioning to librarianship, she served as Science Communications Specialist and then Research Program Manager for the Chemical Biology Program at the Broad Institute of Harvard and MIT. She has an MLIS from the University of Washington and an MS in Science Journalism from Boston University. Her pedagogical and research interests include data management, literacy and visualization; science and media literacy education for both science and non-science trainees; and information accessibility for the print disabled.

Phoebe Ayers, MLIS @phoebe_ayers

Librarian for Electrical Engineering & Computer Science

Massachusetts Institute of Technology

Phoebe Ayers is the librarian for Electrical Engineering, Computer Science, and the Institute for Data, Systems and Society at MIT, where she also works on research data management. Prior to MIT, she was a science and engineering librarian at the University of California, Davis. She has an MLIS from the University of Washington. She is also a long-time member of the Wikipedia community, and is the co-author of the 2008 book *How Wikipedia Works*. She served four years on the Board of Trustees of the Wikimedia Foundation, the non-profit that runs Wikipedia and its sister projects, and continues to be involved in local, national, and international Wikimedia initiatives around free knowledge.

Speaker Biographies

Shea Swauger, MLS @AurariaLibrary

Department Head, Researcher Support Services
University of Colorado — Denver

Shea Swauger (orcid.org/0000-0003-0125-5438) is an academic librarian at the Auraria Library in Denver Colorado. He currently heads a team of people in Researcher Support Services that enable research involving data, GIS, scholarly communications, and technology. Before that, he was a Data Management Librarian at Colorado State University and a Data Curator for Dryad Digital Repository. His research interests are primarily in critical data studies and data ethics, and he strongly dislikes writing in the third person.

Moderated Panel:

Sally Gore, MS, MSLIS @mandosally

Research Evaluation Analyst, UMass Center for Clinical and Translational Science
University of Massachusetts Medical School

Sally Gore is a research evaluation analyst for the University of Massachusetts Center for Clinical and Translational Science with responsibilities in development, implementation and analysis of evaluation related to the programs and projects of the CCTS. Most immediately prior to this, she was an embedded research librarian and informationist at the Lamar Soutter Library, UMass Medical School, serving on grant-funded clinical and community outreach research teams, providing information, data, and knowledge management services for the projects. Sally earned her graduate degree in Library and Information Science from Syracuse University and an MS in Exercise Physiology from Ithaca College.

Speaker Biographies

Daina Bouquin, MLIS, CAS @DainaBouquin

Head Librarian, John G. Wolbach Library

Harvard-Smithsonian Center for Astrophysics

Daina is the Head Librarian of the Wolbach Library at the Harvard-Smithsonian Center for Astrophysics in Cambridge, MA. Her work aims to lower social and technical barriers that impact the astronomy community's ability to create and share new knowledge. Her research interests primarily focus on how libraries can support open science, research software preservation, emerging computational methods, and studies in the history of science.

Audrey Mickle, MLIS @MBLWHOILibrary

Data Librarian, MBLWHOI Library

Marine Biological Laboratory Woods Hole Oceanographic Institution

Audrey Mickle is the Data Librarian for the MBLWHOI Library, serving the science community of Woods Hole, MA. She has been involved in GeoLink, a NSF Earthcube building block project working to use open linked data technology to disseminate earth science data. Her responsibilities include web development, library systems implementation, and research data access and preservation. She works to leverage data access and infrastructure trends to benefit researchers and to improve library services for all.

Yvette Woell, MLIS, MSMOB @argonne

Library Manager, Argonne Research Library

Argonne National Laboratory

Yvette is the Manager of the Argonne Research Library at Argonne National Laboratory, a U.S. Department of Energy research facility. She began her career at Argonne as a science reference librarian and over the years has seen her role expand to include management of the library, scholarly publications and enterprise records management. Yvette is an active member of both the National Laboratory Libraries Coalition (NLLC) and the DOE-Office of Scientific and Technical Information (OSTI) STI program. Yvette holds a MLIS from Dominican University and a MSMOB from Benedictine University.

Speaker Biographies

Mary Piorun, PhD @UMMSLibrary

Director

Lamar Soutter Library, University of Massachusetts Medical School
National Network of Libraries of Medicine, New England Region
University of Massachusetts Medical School

Mary Piorun, PhD is the Acting Director and Associate Director, National Network of Libraries of Medicine, New England Region (NNLM NER) for the Lamar Soutter Library, University of Massachusetts Medical School. Before joining UMass in 1999, Mary was a systems librarian at the US Nuclear Regulatory Commission in Rockville, MD, and served in various other professional and intern positions in libraries in Maryland and Washington, D.C. Mary received her MSLS from the Catholic University of America, Washington, DC. and a Masters in Business Administration at Bentley College. In May 2008, Mary received the W. Michael Hoffman Prize for Business Ethics from the Bentley College, Center for Business Ethics. In January 2014, Mary completed a PhD in Managerial Leadership at Simmons College. Mary is a member of the Medical Library Association, the American Library Association, and the Association of College and Research Libraries New England Chapter.

Julie Goldman, MLIS @jgolds2

eScience Coordinator

National Network of Libraries of Medicine, New England Region
University of Massachusetts Medical School

Julie is the eScience Coordinator for the National Network of Libraries of Medicine, New England Region. Julie started at the University of Massachusetts Medical School as a Library Fellow in the Lamar Soutter Library in 2015. She is actively working on resources and events for data librarians, including the annual New England Librarian e-Science Symposia, RDM Roundtables, and the New England Collaborative Data Management Curriculum. Julie is Co-PI on a NIH BD2K grant, developing a MOOC on best practices for biomedical research data management. Julie is the Managing Editor for the *Journal of eScience Librarianship* and Content Editor for the e-Science Portal for Librarians. Julie earned her MLIS from Simmons College and a BS in Marine Biology from University of New Hampshire.

Additional Resources

Boston Library Consortium @BLC_Inc

<http://www.blc.org>

eScience Portal for Librarians

<http://esciencelibrary.umassmed.edu>

Journal of eScience Librarianship @JeSLIB

<http://escholarship.umassmed.edu/jeslib>

New England Region YouTube Channel

<https://www.youtube.com/channel/UCmwetQc2pcwAwJYPDPucJlg>

Lamar Soutter Library @UMMSLibrary

<http://library.umassmed.edu>

National Network of Libraries of Medicine

New England Region (NNLM NER)

<http://nnlm.gov/ner>

NNLM NER, Data Science Initiatives

http://library.umassmed.edu/escience_initiatives

University of Massachusetts and New England Area

Librarian e-Science Symposium

http://escholarship.umassmed.edu/escience_symposium

University of Massachusetts Medical School @UMassMedical

<http://www.umassmed.edu>

Notes

Video Opt-Out

<https://www.youtube.com/channel/UCmwetQc2pcwAwJYPDPucJlg>

All presentations and materials from the 2017 eScience Symposium will be recorded and available on the NNLM NER eScience YouTube Page. If you do not wish to be recorded or photographed, please sign the opt-out form and return to the registration table.

Symposium Online Survey

<http://www.surveygizmo.com/s3/3410380/2017-eScience-Symposium>

Please complete the symposium evaluation to provide feedback on this and future events. Your feedback is very important for planning future eScience Symposia. Once you have submitted the completed survey, you will have the opportunity to download your MLA CE Certificate for 6 Contact Hours.

Symposium Videos, Presentations & Materials

http://escholarship.umassmed.edu/escience_symposium/2017/program

All presentations and materials from the 2017 eScience Symposium will be made available on the conference website. Presentation videos will be available via YouTube and slides will be available for download. Also, all poster presentations are available for download and a closer look!

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