



Directions in Digital Scholarship: Support for Digital, Data-intensive, and Computational Research

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CNI Spring 2023 Membership Meeting

April 3, 2023



Components of the Initiative

- Interviews
- Institutional Profiles
- Invitational forums
- Report
- Session at CNI Spring 2023 Meeting
- Webinars

<https://www.cni.org/events/cni-workshops/directions-in-digital-scholarship-support-for-digital-data-intensive-and-computational-research-in-academic-libraries>

The screenshot shows the CNI website header with the logo and navigation menu. The main content area features a sidebar with a list of events and a main article titled "Directions in Digital Scholarship: Support for Digital, Data-Intensive, and Computational Research in Academic Libraries". The article text discusses the initiative's goals and activities.

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Events

- Membership Meetings
- Workshops & Projects
- Directions in Digital Scholarship: Support for Digital, Data-Intensive, and Computational Research in Academic Libraries**
- Digital Scholarship Planning 2020 Webinar Series
- Planning a Digital Scholarship Center 2016
- Security and Privacy
- Digital Scholarship Centers 2014
- Management of Scholarly Identity

Directions in Digital Scholarship: Support for Digital, Data-Intensive, and Computational Research in Academic Libraries

Home / Events / Workshops & Projects / Directions in Digital Scholarship: Support for Digital, Data-Intensive, and Computational Research in Academic Libraries

CNI will host an initiative in 2023 that examines the evolution, current state, and future of digital scholarship (DS) programs in libraries of CNI member institutions. DS programs encompass a broad range of initiatives, including support for research services that are data-intensive and computational in methodology. While some programs may focus on digital humanities (DH), others may work with data-driven social sciences and sciences and with professional fields such as health sciences and business. Some programs may emphasize activities geared towards educating and consulting with graduate students and undergraduates, including partnering with faculty to develop new types of assignments where students create digital projects. They may also offer workshops and certificate programs and consult with students working on theses, dissertations, and masters or undergraduate research projects that employ digital tools and create various forms of digital content.

The current initiative proposes to look at the evolution of DS programs and provide a snapshot of the current state of play

Digital Scholarship

What is Digital Scholarship?

Digital Scholarship extends traditional methods of research by leveraging new technologies and digital data to advance research and enhance pedagogy. While it is most commonly associated with Digital Humanities, Computational Social Science, and Data Science, Digital Scholarship is applicable to all disciplines, and it often relies on interdisciplinary collaborations. Examples of Digital Scholarship include:

- Text and data mining : apply computational and statistical methods to macroscopically explore large texts and data
- Social network analysis : uncover relationships and interactions between people, places, texts, etc
- Geospatial analysis : create data-driven maps
- Data visualization : analyze and display patterns, correlations, and other findings in meaningful ways
- Digital exhibits : build collections of images, texts, and sound to tell engaging stories
- Digital project management : get help designing and organizing your digital project to ensure scalability and sustainability



Institutional programs: U. Pennsylvania

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Home Digital Scholarship and Data Services

Research Data & Digital Scholarship

The Penn Libraries Research Data & Digital Scholarship team facilitates data-driven and data-literate research and scholarship across the disciplines and fosters informed and ethical data communities at Penn.

Interested in data, computational research, digital humanities, or open and public scholarship?
[Join the Research Data & Digital Scholarship mailing list](#) to be first in the know about upcoming workshops, talks, and other events!

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Mapping Contemporary School Protests in Africa

Work with us

Request a workshop or in-class session or submit a proposal to collaborate with us on a data-driven research project or digital scholarly publication.

Manage research data and create data management plans

We can assist in the management, curation, publishing, and sharing of research data, whether to meet funder requirements or for the sake of

Explore our work

Discover the projects, presentations, and papers we've recently been working on and learn more about the process of making them.



Institutional programs: McMaster U.

Read more on the Sherman Centre website

[What is Digital Scholarship?](#)

[Sherman Centre Events](#)

[Sherman Centre Team](#)

[Advisory Committee](#)

[Graduate Residency](#)

Related Services

[3D Printing](#)

[Research Data Management](#)

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[GIS & Geospatial Data](#)

[Publish with Student Journals @ McMaster](#)

[Data Analysis Support Hub](#)




Institutional programs: Swarthmore

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- Borrow + Request
- Research + Scholarship
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 - Scholarly Communications
 - Film Essentials
 - Introduction to Archives
- Special Collections
- Student Opportunities

Digital Scholarship



Digital Scholarship at Swarthmore supports faculty and students in the critical use of digital networked technologies in research projects to workshops and training from stu

Have a question? Chat with library staff

SWARTHMORE Meet Swarthmore Academics Campus Life Admissions & Aid News & Events MENU Q

FEATURED PROJECT

lib/lab lib lab

LIBERATION 1969 ARCHIVE

BLACK LIBERATION 1969 ARCHIVE

Archive and interactive exhibits highlighting the struggles of Black students at Swarthmore in 1969 and beyond. In collaboration with Professor Allison Dorsey and students in the course Black Studies in Theory and Praxis.

LIB/LAB FELLOWS

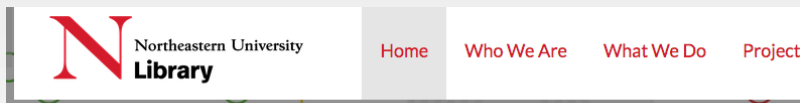
Interdisciplinary opportunity in the fall semester exploring the theory and praxis of digital environments. Students learn web development while engaging emerging issues in technology and society.

THE REACTOR ROOM

Installation facilitating public engagement with the Chernobyl catastrophe and its associated mythology. Featuring work by students in the course Chernobyl: Nuclear Narratives and the Environment, taught by Professor José Vergara.



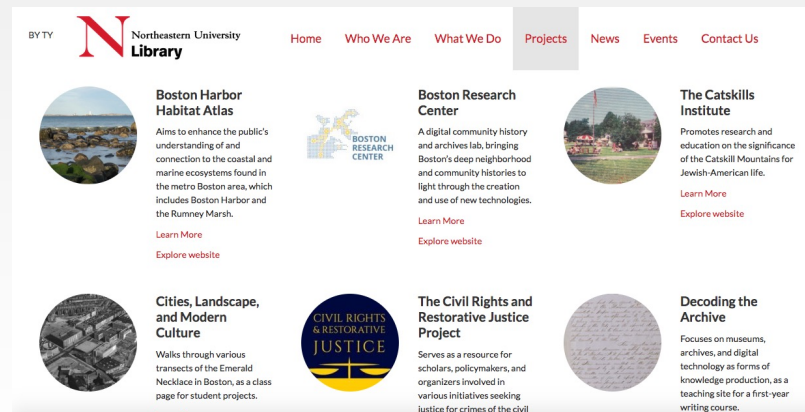
Research-oriented activities



THE DIGITAL SCHOLARSHIP GROUP

The DSG is part of Northeastern University Library's digital scholarship services, supporting digital modes of research, publication, and collaboration at Northeastern. We provide expertise, infrastructure, and strategic guidance for researchers and projects, and we offer a wealth of activities to help you get involved and learn more.

The DSG has resumed on-campus work as of the 2022–23 academic year but continues to have virtual events, including some of our Open Office Hours sessions and the Fall Scholarship Celebration. Details about these events, such as physical and virtual locations, can be found on our [Events](#) page.



<https://dsg.northeastern.edu/>



Instructional activities

UO LIBRARIES SEEKS GE COURSE ASSISTANT FOR LIB 410 HUMANITIES RESEARCH DATA MANAGEMENT

← LIB 410: Humanities Research Data Management Course Assistant Department: UO Libraries – Digital Scholarship Services FTE: 0.49 Terms: Spring 2023 Location: On-site Eugene, Oregon Pay Range: \$1,906 - 2,273 per month Duties: The UO Libraries seeks an individual to...

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Past Posts

FALL OER AND DIGITAL PUBLISHING WORKSHOPS

Introduction to Open Educational Resources & Textbook Affordability - ONLINE Open Educational resources (OER) are free and openly licensed course materials that can be used to support teaching and learning. In this session, we'll discuss what we know about how...

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Past Posts



DEI programs

- More partnerships on projects that highlight diverse groups & content
- More exhibits highlighting diversity
- Outreach to campus groups with diverse populations
- Hosting events highlighting diversity

The screenshot shows the University of Michigan Library website. The header includes the 'M LIBRARY' logo, navigation links for 'LOCATIONS AND HOURS', 'INFORMATION FOR', 'ASK A LIBRARIAN', 'GIVE', and 'ACCOUNT', and a search bar. The breadcrumb trail is 'Home > Research and Scholarship > Awards and Grants > Anti-Racist Digital Research Initiative'. The main content area features a sidebar with links to 'Anti-Racist Digital Research Initiative', 'Support Provided', 'Funding Details', 'Expectations for Project Teams', 'How to Apply', 'Funded Projects', and 'Library Data Grant Program'. The main heading is 'Anti-Racist Digital Research Initiative'. The text describes the initiative as a mini-grant program supporting early-stage digital scholarship projects. It lists the program's goals and provides a list of what the program provides: limited start-up funding, planning support, access to library and technical expertise, and technical support.

<https://www.lib.umich.edu/research-and-scholarship/awards-and-grants/anti-racist-digital-research-initiative>



Institutional alignment

- Variable
- STEM-oriented institutions strong on alignment
- Changes in institutional priorities over time
- New partnerships, infusion of resources by institution or other units



Scope of programs

- Consultations
- Instruction
- Constituencies include faculty, graduate students, undergraduates, staff, community
- Changes in past 5 years
- Most are supplemented by external and/or internal funding
- All have some physical facilities



Relationship of DS, data-intensive, and computational activities

Currently

- Increasing overlaps
- Less overlap when high end research computing is involved (except initial consultations)
- Few have these areas under one organizational unit

New Approaches

- Reorganization of library functions and staff
- Concierge model
- Improved communication to constituencies



Physical facilities

Most frequent

- Training/classroom spaces
- Consultation spaces
- Spaces for collaborative projects
- Computer/data labs

Least frequent

- AI lab
- Data science lab
- Visualization space



Key Partnerships

- Research office
- Research computing
- Central IT & departmental IT
- Provost's office or college
- DEI program
- Museum
- Publishing program
- Office of student affairs
- Teaching & learning center



Sustainability

Promotes

- Strong administrative and faculty support
- Uptake of DS practices by faculty
- Participation in program by staff from many units
- Clear guidelines for projects

Impedes

- Lack of general understanding of program
- Gaps in capacity, affordability, and expertise of staff
- Lack of formal agreements



What's next for programs

- Create AR/VR spaces & services
- Establish data visualization facilities
- More computational & data services
- Expand digital publishing
- More intensive instructional programs
- Provide a more unified, holistic approach
- Strengthen campus partnerships



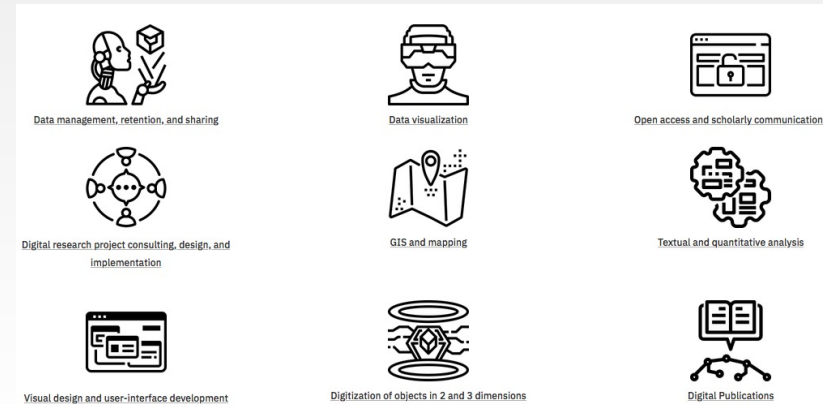
Additional areas to address in future

- Organizational structure
- Communication
- Assessment



Organizational Structure

- What is included in the DS program?
- How are DS programs and data-intensive/computational programs administered?
- How is the library represented in discussions at the university level?





Communication

Internal

- To library staff in general
- To subject liaisons
- To supervisors

External

- To potential users and partners
- To university administration
- To funders



Assessment

Needs

- One size does not fit all institutions
- User needs
- Environmental scan (institution)
- Expertise of staff

What is success?

- Relationship to institution's goals and strategic plan
- Quantitative and qualitative data
- Communicating assessment results



CNI DS Webinar – April 20, 2023

- Characteristics of 3 institutional programs
 - Mission and institutional alignment
 - Planning and assessment
 - Constituencies served
 - What's next
- Joe Lucia, Dean of University Libraries, Temple U.
- Nicky Agate, AUL for Research Data & Digital Scholarship, U. Pennsylvania
- Olivia Wikle, Digital Initiatives Librarian, U. Idaho



Discussion Questions

- At your institution, what are the connections and disconnects among programs supporting DS, data-intensive, and computational research? How would you make changes?
- How have DS programs at your institution changed in the past 5 years?
- What are key sustainability factors for your DS program?
- Your questions



Thank you!

- Thanks to interviewees and forum participants
- Contact me: Joan Lippincott, Associate Executive Director *Emerita*, CNI
- joan@cni.org