



Situating Digital Scholarship and Data-intensive Research in the Library: Institutional Perspectives

Joan K. Lippincott
Designing Libraries for the 21st Century
University of Arizona
October 9, 2023

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

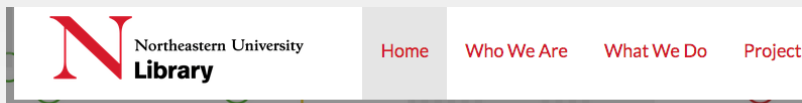


Scope of programs (from CNI study)

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



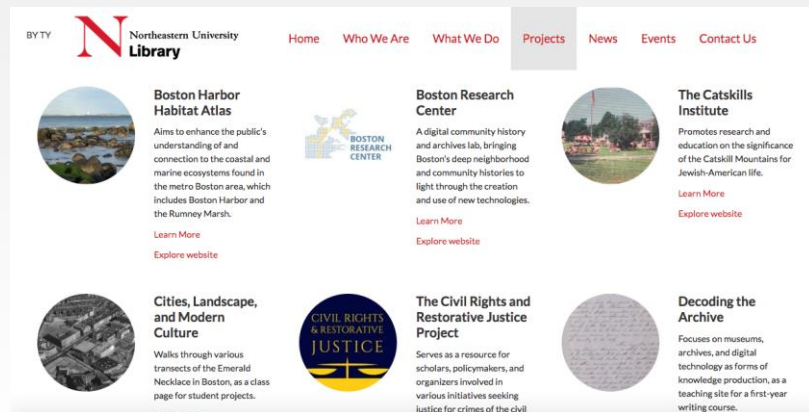
Research-oriented activities



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...

[READ MORE](#)



DREAM LAB

Digital Research, Education, And Media Lab

Subscribe by Email

Stay Up to Date with the Lab!

This form is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.

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...

[READ MORE](#)



DREAM LAB

Digital Research, Education, And Media Lab

Subscribe by Email

Stay Up to Date with the Lab!

This form is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.

Past Posts



DEI programs

- CNI Forum participants:
 - 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 and navigation links for 'LOCATIONS AND HOURS', 'INFORMATION FOR', 'ASK A LIBRARIAN', 'GIVE', and 'ACCOUNT'. Below the header is a search bar and a main navigation menu with options like 'Find, Borrow, Request', 'Visit and Study', 'Research and Scholarship', 'Collections', and 'About Us'. The breadcrumb trail reads: 'Home > Research and Scholarship > Awards and Grants > Anti-Racist Digital Research Initiative'. The page title is 'Anti-Racist Digital Research Initiative'. A left sidebar menu lists: 'Awards and Grants', '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 content area describes the initiative as a mini-grant program for early-stage digital scholarship projects in the humanities, arts, and social sciences. It lists the program's goals and provides a bulleted list of what the program provides: limited start-up funding, planning support, access to library expertise, and technical support.

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



Physical facilities (CNI collected 24 profiles)

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 (from profiles)

- 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



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



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



What's next for programs (from profiles)

- 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



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 focus on digital scholarship (DS) programs in libraries, including support for research services, data-intensive and computational methodology, and professional fields like health sciences and business. It also mentions workshops and certificate programs for graduate students and undergraduates.

cni
Coalition for Networked Information

ABOUT CNI PROGRAM PLAN TOPICS EVENTS & PROJECTS RESOURCES CONTACT US

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

ibarc Events

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



Our Panelists Today

- Iorraine haricombe, Vice Provost and Director, UT Libraries, University of Texas, Austin
- Greg Raschke, Senior Vice Provost & Director Libraries, North Carolina State University
- Donald Gilstrap, Dean of University Libraries, University of Alabama
- Moderator: Joan Lippincott, Associate Executive Director *Emerita*, CNI
- joan@cni.org

OCTOBER 9, 2023

Designing Libraries Conference
University of Arizona, Tucson, AZ



TEXAS Libraries

Centering the Scholars Lab for People, Place and Pursuits

LORRAINE J HARICOMBE

Vice Provost and Director, University of Texas Libraries
The University of Texas at Austin

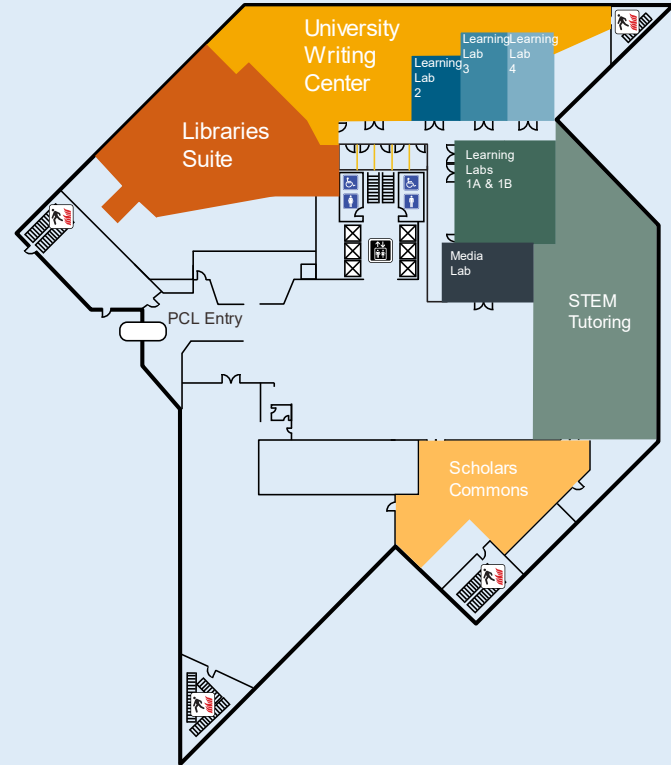
LIBRARY
AS
PLACE



Why the **LIBRARY?**

LARGEST TRANSFORMATION OF LIBRARY
SPACE SINCE PCL'S CONSTRUCTION

Renovations at The Perry-Castañeda Library



The Scholars Commons

SCHOLARS
COMMONS



The Media Lab



The Writing Center



STEM Tutoring Space



Learning Labs



Our Future **SCHOLARS LAB**

THE REIMAGINING OF A SPACE THAT NO
LONGER ALIGNED WITH USERS' NEEDS



BUILDING MOMENTUM

2016

Report on state of digital humanities in COLA

2016

Organizational restructure to center support for digital initiatives at UTL

2016

New provost arrives

2017

UT hosts Humanities Intensive Learning & Teaching (HILT)

2018

Provost campus-wide Task Force on Future of Libraries

Focus on three key areas

- Collections
- Digital Scholarship
- Library Spaces

TASK FORCE ON THE FUTURE OF UT LIBRARIES
FINAL REPORT

KEY RECOMMENDATION

“Invest in construction of a new central campus-wide digital scholarship center at the Perry-Castañeda Library to support the creative and collaborative efforts at the intersection of engaged learning and digital scholarship.”

MAKING THE CASE

- **Organizational Structure**
 - **Central Location**
 - **Strategic Objectives**
- 

PEOPLE, PLACE and PURSUITS

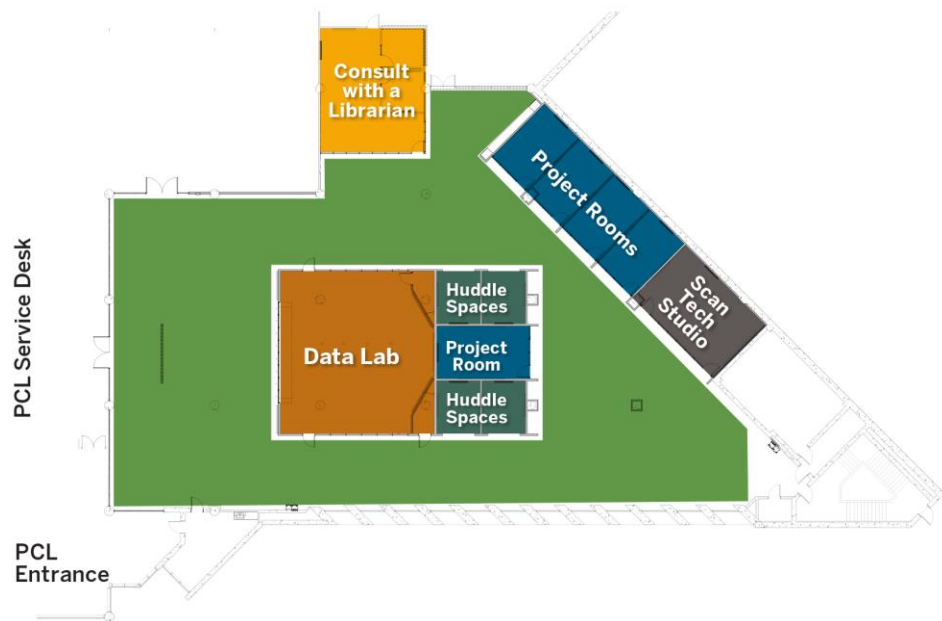
- **People:** Engaged the campus for input; received a clear mandate
- **Place:** Central location on campus to support digital scholarship (not just digital humanities)
- **Pursuits:** UTL provides training, programs, software and tools to support and advance creative scholarship



SPACE AS SERVICE

FALL 2023:

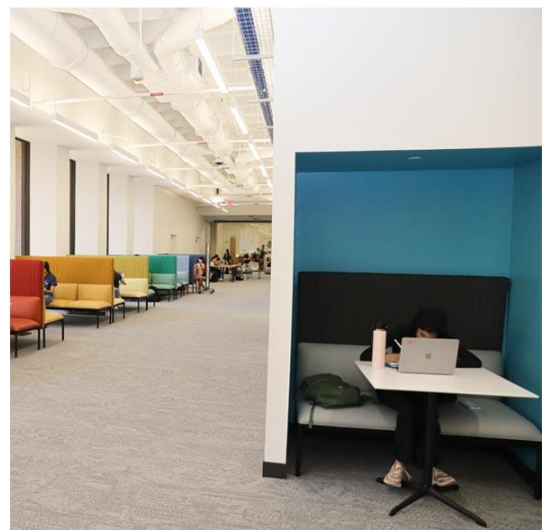
THE NEW SCHOLARS LAB OPENS IN
THE PERRY-CASTAÑEDA LIBRARY



SPACE AS SERVICE

FALL 2023:

THE NEW SCHOLARS LAB OPENS IN
THE PERRY-CASTAÑEDA LIBRARY



SUCCESS!



Centering the Scholars Lab for People, Place and Pursuits

 TEXAS Libraries



The Benefits and Challenges of Offering Digital Scholarship at Scale

Greg Raschke, Senior Vice Provost & Director of Libraries



Copyright and Open Knowledge

- Copyright and publishing.
- Open education and research.
- Text and data mining.
- Digital publishing.

NC State University Libraries | Library News | NC State University

The North Carolina Architects and Builders project has concluded, and we regret that we are no longer able to add new content or change the content of existing entries. The content of the current site will remain publicly accessible.

NORTH CAROLINA Architects & Builders

A BIOGRAPHICAL DICTIONARY

HOME SEARCH BROWSE BUILDING INDEX ABOUT

Welcome to North Carolina Architects & Builders

This biographical dictionary highlights architects and builders who have produced North Carolina's architecture for more than 300 years. A brief biography plus a building list traces each person's work in the state. This is a growing website, with many more entries still to be added. We invite users to send corrections and updated information to enhance the site.



Dorton Arena, Raleigh
Matthew Nowicki, architect

Start Exploring

Making

NC STATE
University Libraries



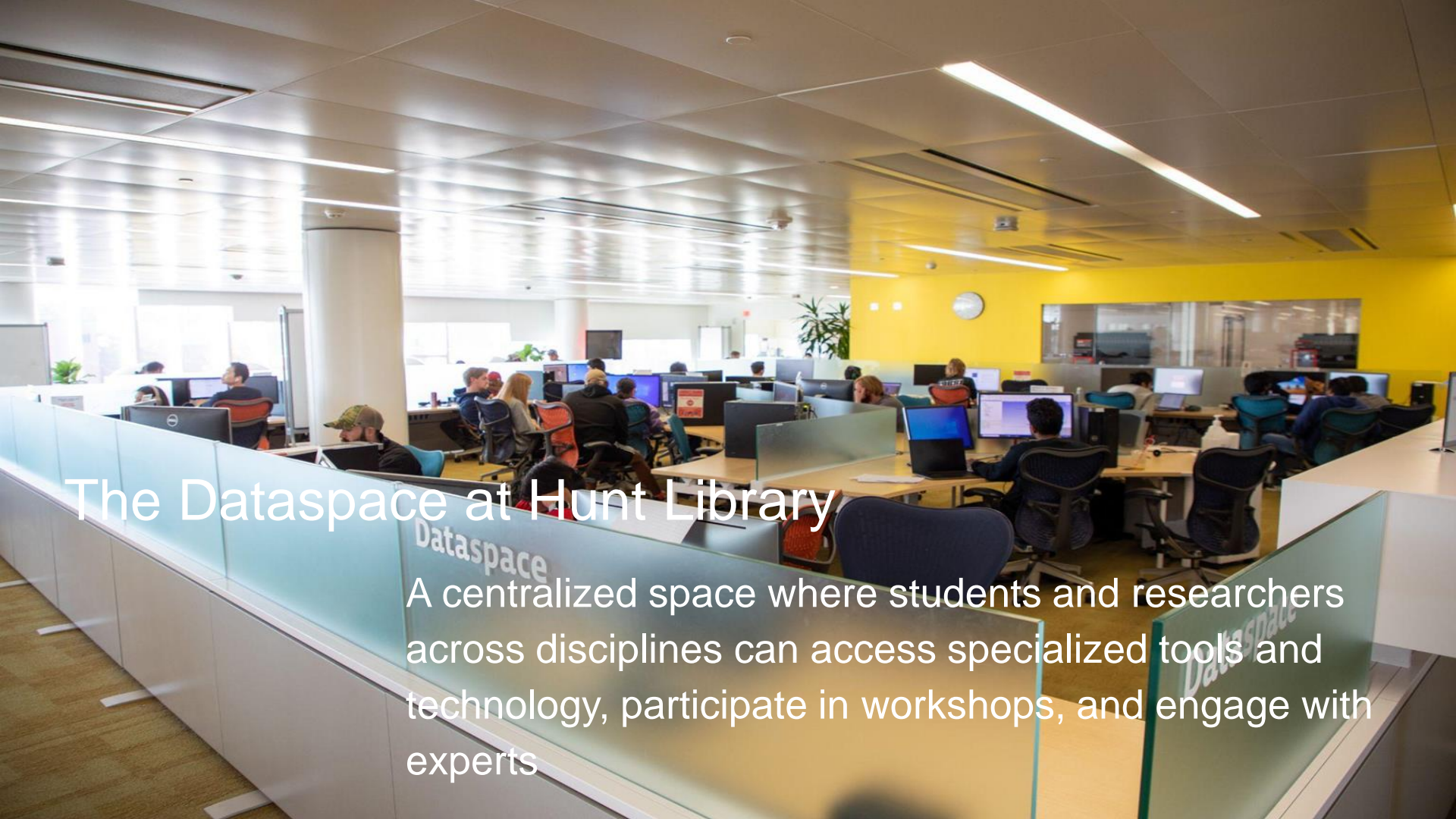
Visual and Immersive Scholarship

NC STATE
University Libraries



Digital Media and Fabrication





The Dataspace at Hunt Library

A centralized space where students and researchers across disciplines can access specialized tools and technology, participate in workshops, and engage with experts

A centralized space where students and researchers across disciplines can access specialized tools and technology, participate in workshops, and engage with experts



Data Science Academy

About

Courses

Data Science Consulting

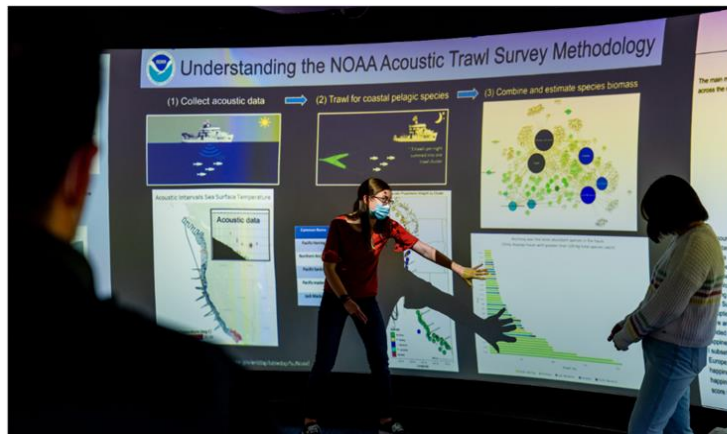
Programs

Events

Seed Grants

Support the DSA

 GIVE NOW →



Data science is for everyone.

Explore how the Data Science Academy can help you think and do with data.

UPCOMING SPRING COURSES →

THINK AND DO WITH THE DATA SCIENCE ACADEMY

Programs and Public Engagement:

COFFEE & VIZ

A seminar series showcasing the visualization work of NC State Researchers.



Citation Index

<https://ci.lib.ncsu.edu>

Citation Index Search About Profile Dashboard Logout

Genetic Engineering and Society

NC State

Works People

Works Published in 2023

View as JSON
Export 2023 as plain text
Export 2023 in RIS format
copy embed code

Displaying works 1 - 20 of 165 in total

Sorted by most recent date added to the index first, which may not be the same as publication date order.

2023 ✓

2021

2020

2019

2018

2017

Show More
Years

1 2 3 4 5 ... Next Last

2023 journal article Cite It

Bearded or Smooth? Awns Improve Yield when Wheat Experiences Heat Stress During Grain Fill in the Southeastern United States

Journal of Experimental Botany
By: N. DeWitt, J. Lyerly, M. Guedra, [J. Holland](#), J. Murphy, B. Ward, R. Boyles, M. Mergoum ... and 11 other authors

[10.1093/xb/lerad318](#)
[Find Text](#) [NCSU](#)

Source: ORCID Added: August 21, 2023

2023 journal article Cite It

The Spatiotemporal Distribution, Abundance, and Seasonal Dynamics of Cotton-Infesting Aphids in the Southern US

INSECTS, 14(7).
By: J. Mahas, J. Mahas, C. Ray, A. Kesheimer, T. Steury, S. Conzemius, W. Crow, J. Gore ... and 10 other authors, including 2 NC State authors

author keywords: Aphididae; *Aphis gossypii*; Solemnoviridae; CLRDV; crop; vector-borne; pathogen; vector ecology

[10.3390/insects14070639](#)
[Find Text](#) [NCSU](#)
[www.mdpi.com \(publisher PDF\)](#)

Source: Web Of Science Added: August 14, 2023

Citation Index Search About Profile Dashboard Logout

Genetic Engineering and Society

NC State

Works People

People

View as JSON

54 people from this unit have registered their ORCID iD in the Citation Index.

All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Include inactive profiles?

Jose Miguel Alonso Bellver

135 works, including 53 open access
<https://orcid.org/0000-0001-7087-1571>

David D. Auerbach

6 works, including 3 open access
<https://orcid.org/0000-0003-1761-8993>

Rodolphe Barrangou

228 works, including 148 open access
<https://orcid.org/0000-0002-0648-3504>

Ross Knox Bassett

22 works
<https://orcid.org/0000-0001-6770-5433>

David Michael Berube

19 works, including 2 open access
<https://orcid.org/0000-0001-6751-0417>

Andrew Ray Binder

25 works, including 6 open access
<https://orcid.org/0000-0002-7080-7550>

Zachary Steven Brown

36 works, including 18 open access
<https://orcid.org/0000-0003-1301-4420>

Martha O Burford Reiskind

25 works, including 13 open access
<https://orcid.org/0000-0001-6826-9215>

Hannah J Burrack

75 works, including 34 open access
<https://orcid.org/0000-0002-8460-8245>

Alice Cheng

74 works, including 9 open access
<https://orcid.org/0000-0002-0321-7956>

John J Classen

61 works, including 18 open access
<https://orcid.org/0000-0001-7006-8375>

Deanna P Dannels

61 works, including 14 open access
<https://orcid.org/0009-0009-2915-9840>

Jason A. Delborne

251 works, including 26 open access
<https://orcid.org/0000-0001-6436-782X>

Veijko Dubljevic

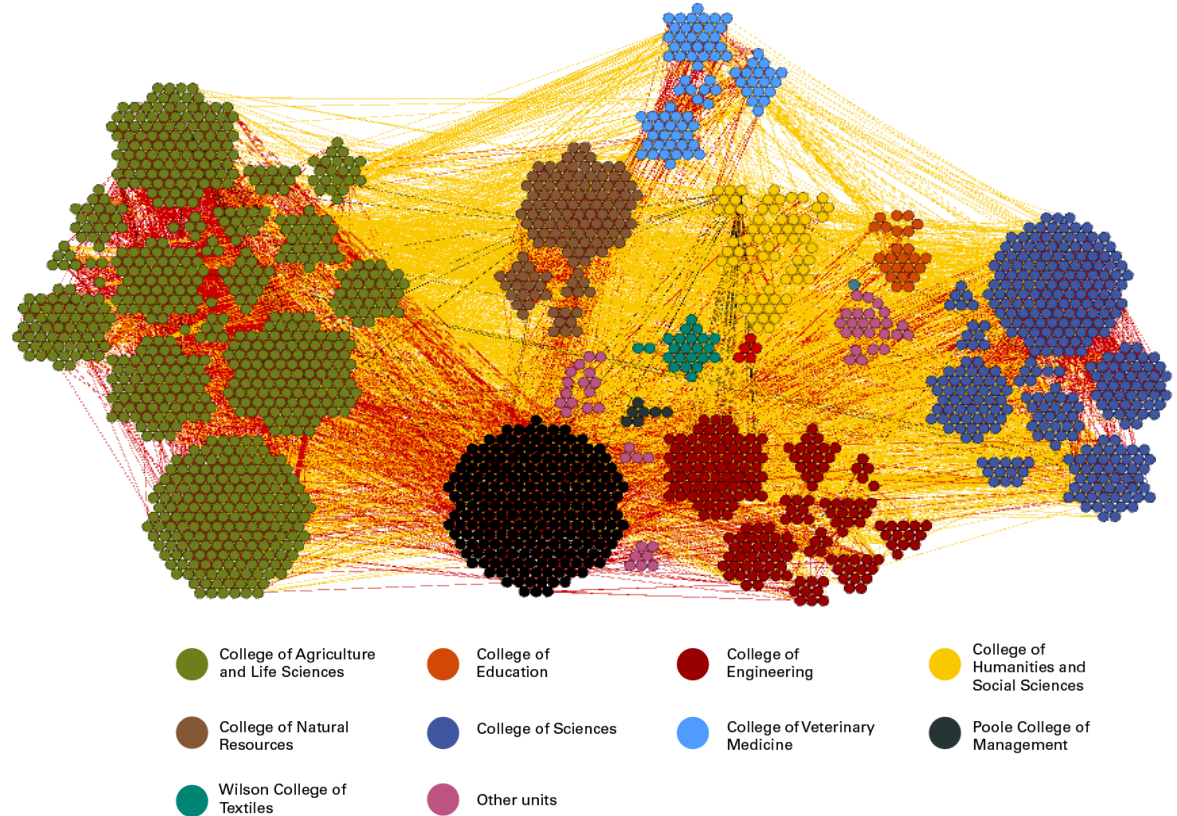
107 works, including 19 open access
<https://orcid.org/0000-0003-3606-587X>

Rob Dunn

299 works, including 163 open access
<https://orcid.org/0000-0002-6030-4837>

Collaboration Network Example 1

Genetic Engineering & Society cluster affiliates and their collaborators grouped by college, then department.



Computational Research and Data Support

- ❑ Provide a single point of contact for research computing and data needs; Increase discovery of and access to services and support.
- ❑ Analyze requirements, recommend technologies, and propose design solutions.
- ❑ Connect campus providers.
- ❑ Assist in planning for cyberinfrastructure needs for funded (and unfunded) projects.







Major Lessons.

- Labor is the Secret (or not) Sauce
- Partnerships are Vital
- Researchers & Faculty Champions
- Visible Difference is Important
- Resist Over-Engineering or Hyper Focused Investing
- Embrace Opacity Between Offerings and Research/Teaching
- Opening is Just the Start

Designing Libraries 2023

DON GILSTRAP
Dean of University Libraries



University Libraries



WHERE LEGENDS ARE MADE

The University of Alabama Libraries Master Plan

- Shepley Bulfinch Architects, Boston MA
- CMH Architects, Birmingham AL
- The University of Alabama Division of Construction Administration & Furnishings and Design Department
- University Libraries Master Plan Team



WHERE LEGENDS ARE MADE

The Angelo Bruno Business Library

- B Group Architecture, Birmingham AL
- 49 Degrees Graphics, Columbus OH
- The University of Alabama Division of Construction Administration & Furnishings and Design Department
- University Libraries Bruno Library Renovation Team



WHERE LEGENDS ARE MADE

Photographs by Jonathan Norris Photography

3 Floors & 90,000 Square Feet



A Modern Take on a Classic Space



WHERE LEGENDS ARE MADE

The Thomas Jefferson Jones Business Information Commons and Bloomberg Research Lab

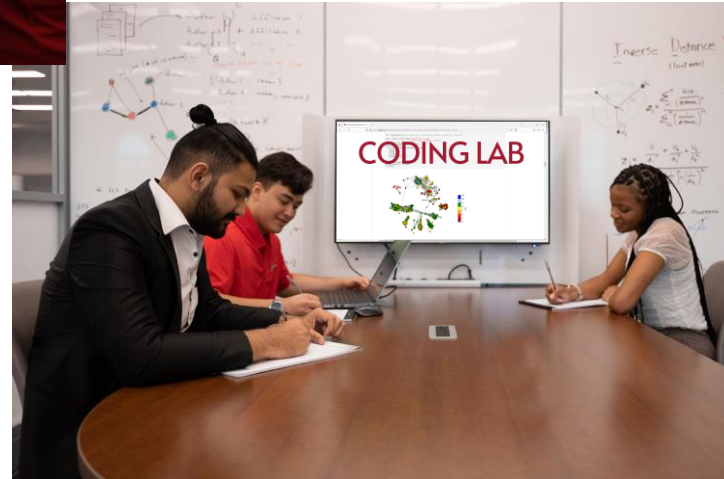


20 New Team Workrooms Hosting Pop-Up Labs for GIS, Coding, Business Analytics, Informatics, HPC, AI



LEADERSHIP IS ALL ABOUT UNLOCKING
THE POTENTIAL IN OTHERS.

...RLY FIORINA

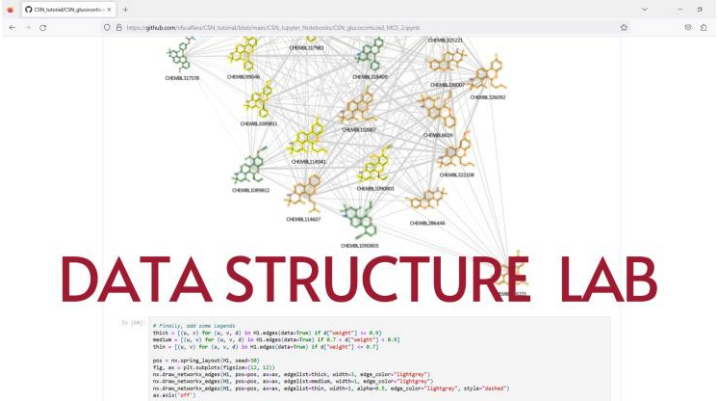


WHERE LEGENDS ARE MADE

WITHOUT DATA,
YOU'RE JUST ANOTHER PERSON
WITH AN OPINION.

W. EDWARDS DEMING

https://ualibweb.github.io/UALIB_ScholarlyAPI_Cookbook



There are 400,000 bytes of data for
every grain of sand on Earth

**WANT TO SHINE IN THE
SANDBOX?**

LEARN TO CODE, CURATE
AND MANAGE DATA



University Libraries

DATA SERVICES WORKSHOPS



A
**WHERE
LEGENDS
ARE MADE**



University Libraries



University Libraries: Social Media

FOLLOW US ON



@GorgasLib



@universitylibraries



@UALibraries



WHERE LEGENDS ARE MADE