Data Science Support and Services at NCSU Libraries

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Director of Research Data Services



NCSU Data Science Initiative
Winter Symposium

February 5, 2016

Research spaces



James B. Hunt Jr. Library

DH Hill Library

Collaboration spaces: Low to medium tech



Collaboration spaces: High tech



Large scale display walls



Immersive visualization spaces



Gaming lab



Makerspaces and IoT





Use in the library







Arduino Yun

Particle Internet Button

Particle Photon **Development Kit**









Particle Photon Maker Kit

Raspberry Pi Camera

WiFi Shield (ESP8266)

Available to borrow ,.....







Arduino Inventor

Intel Galileo Kit

LightBlue Bean



Raspberry Pi

Research support services







Collections

Tripsaver, Special Collections, Digital Repository



RefWorks, Zotero, Mendeley, EndNote

Data and GIS

Finding geospatial and numeric data, GIS software assistance

Grants and Funding

Opportunities, proposal writing, sponsored research compliance



Data Management

DMP review, sharing & discovery, best practices



Publishing and Copyright

Copyright agreements, Open Access, fair use



Visualization

High-tech spaces, video walls, data visualization

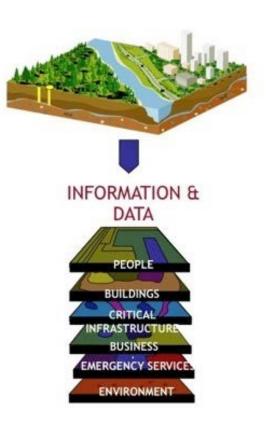


Measuring Research Impact

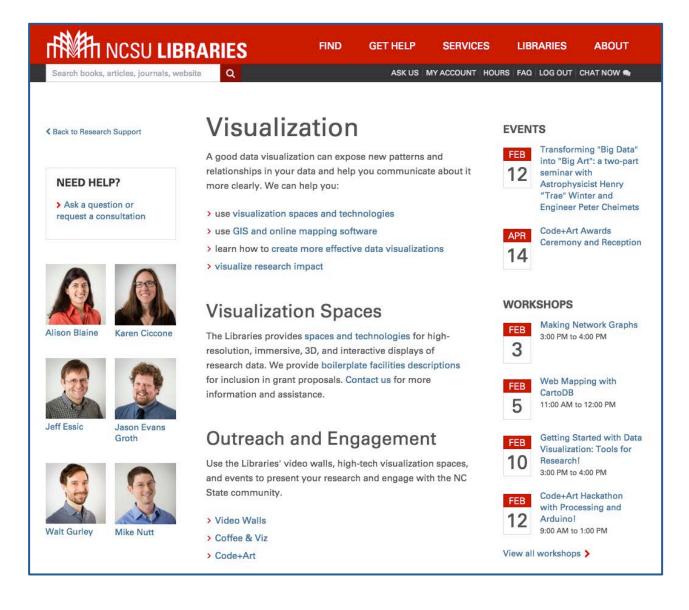
Citation analysis, author networks and metrics, benchmarking

GEOSPATIAL DATA SERVICES

- Find and get data
- Software support
- Project consultations
- Workshops & class instruction
- ArcGIS Online support
- ESRI Virtual Campus (online training)



VISUALIZATION SERVICES



VISUALIZATION TRAINING AND WORKSHOPS





Data Visualization Workshops

Make your own visualizations with our new data visualization workshops. Our workshops cover tools, techniques and provide hands-on activities. No experience required! All workshops take place at the D. H. Hill Library Multimedia Seminar Center.

Register at: go.ncsu.edu/dataviz



Getting Started with Data Visualization: Tools for Research

Friday,	January	15:	11 a.m. – 12 p.m.
Wednesday,	February	10:	3 p.m. – 4 p.m.
Friday,	Feburary	26:	11 a.m. – 12 p.m.



Visualize Your Data with Tableau

Wednesday,	January	27:	3 p.m. – 4 p.m.
Friday,	February	12:	11 a.m. – 12 p.m.



Data Cleaning and Analysis Tips and Tools: Microsoft Excel and Open Refine

Friday,	January	29:	11 a.m. – 12 p.m.
Wednesday,	February	17:	3 p.m. – 4 p.m.



Making Network Graphs

Wednesday,	February	3:	3 p.m. – 4 p.m.
Friday,	February	19:	11 a.m. – 12 p.m.



Web Mapping with CartoDB

Friday,	February	5:	11 a.m. – 12 p.m.
Wednesday,	February	24:	3 p.m. – 4 p.m.

Distributed visualization spaces









Building visualization community



Coffee and Viz Seminar Series



DATA AND VISUALIZATION INSTITUTE FOR LIBRARIANS

May 2016

Data Exploration and Statistical Analysis

Bibliometric Analysis

Data Visualization

Version Control with Git and GitHub

Data Description, Sharing, and Reuse

Data Cleaning and Preparation

Publisher and Funder Data Use Agreements

Gathering and Analyzing Textual and Multimedia

RESEARCH DATA MANAGEMENT SERVICES AND SUPPORT







- Data Management Planning Guide
- DMPTool
- DMP Review service
- Workshops
- Data repository guidance
- Metadata consultation
- Copyright & IP guidance
- NIH Public Access Compliance

http://www.lib.ncsu.edu/guides/datamanagement/

DATA MANAGEMENT PLAN REVIEW

Advise on:

- Data types
- Standards
- Storage
- Preservation
- Sharing & access
- Re-use
- Responsibilities



Questions?

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http://www.lib.ncsu.edu/services/research-support

