Apr 9th, 12:45 PM

Developing a Data Management Curriculum for Graduate Students in the Natural Resources

Sarah J. Wright  
*Cornell University*

Camille Andrews  
*Cornell University*

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Objective

What skills do graduate students need to be successful in managing, working with and curating their research data? This poster reports on work at Albert R. Mann Library to address these needs in collaboration with faculty in the Department of Natural Resources.

Natural Resources/Long-term Studies


Educational Priorities

Acquiring the data management and organization skills necessary to work with databases and data formats, document data, and handle accurate data entry is described as essential, otherwise, “it’s as if the data set doesn’t exist.”

Response

NTRES 6940 Special Topics Course: Managing data to facilitate your research

Six session mini-course:
- Intro to Data Management
- Data Organization
- Data Analysis & Visualization
- Data Sharing
- Data Quality & Documentation
- Wrap-up

Assessment Methods

- In-class active and collaborative learning
- Post class one-minute reflections
- Final survey

How would you rate your knowledge/skills/ability in the following areas?

Creating a data management plan
Documenting your data
*Evaluating data repositories
Visualizing data and creating graphs
Following best practices in structuring relational databases
Recognizing necessary components of a data management...
Describing your research and data collection process
Describing the importance of data management

The Data Information Literacy project is supported in part by a grant from the Institute of Museum and Library Services (IMLS). Any views, findings, conclusions or recommendations expressed here do not necessarily represent those of the IMLS.