Apr 9th, 12:00 AM

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

Sarah J. Wright  
*Cornell University*

Camille Andrews  
*Cornell University*

Follow this and additional works at: [https://escholarship.umassmed.edu/escience_symposium](https://escholarship.umassmed.edu/escience_symposium)

Part of the Information Literacy Commons, and the Scholarly Communication Commons

This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 4.0 License](https://creativecommons.org/licenses/by-nc-sa/4.0/).

Repository Citation


This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in University of Massachusetts and New England Area Librarian e-Science Symposium by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.
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.

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

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

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.”

Natural Resources/Long-term Studies

Context
- Long-term studies tracking longitudinal changes in fish species occurrence, population abundance, growth, and diet
- Data types
  - Spreadsheets (MS Excel),
  - Relational databases (MS Access),
  - Scripted analyses in R (open source statistical software)

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

* "Before" data not collected