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Data Information Literacy: Multiple Paths to a Single Goal

Jake Carlson
Purdue University, jakecarlson@purdue.edu

Sarah Wright
Cornell University, sjw256@cornell.edu

Brian Westra
University of Oregon, bwestra@uoregon.edu

Jon Jeffryes
University of Minnesota - Twin Cities, jeffryes@umn.edu

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Data Information Literacy: Multiple Paths to a Single Goal

Jake Carlson, Purdue University; Jon Jeffryes, University of Minnesota; Brian Westra, University of Oregon; Sarah Wright, Cornell University

Objective

What skills will graduate students need to be successful in managing, working with and curating their research data? This poster reports on initial results from a two-year project funded by the Institute of Museum and Library Services (IMLS) that is centered on exploring this question.

Methods

The project is comprised of five teams (each made up of a data services librarian, a subject or information literacy specialist and a faculty researcher) from four institutions. Each team conducted environment scans of the discipline and conducted interviews of their faculty partner and his graduate students. Using this knowledge each team developed an educational program tailored to their specific discipline and local practices.

Findings

Note: Due to the small size and use of convenience sampling these findings cannot be generalized beyond this project.

- All 12 competencies were seen as important by faculty and graduate students.
- Lack of formal training in data management
- Lack of formal policies in the research team
- Self-directed learning through trial and error
- Focus on data mechanics and local, immediate needs over deeper concepts or application outside of the lab.

Response

Heather P. Westra, Sarah Wright.

Response

Natural Resources
Civil Engineering
Ecology

Data Sharing

Databases
Metadata

Long-term Access
Cultures of Practice
Closing Out a Grant

Data Sharing Policies
Transfer of Responsibility

Mini-Course
Online Course
Readings & Seminar
Embedded Librarianship

Faculty Engagement
Application of Best Practices

Completed DMP
Improved Data Practices

Awareness of Tools, Resources, and Best Practices

Raised Awareness Resources for Evaluating Student Work

Data Information Literacy Model

Outcomes

Purdue University
Purdue University #1
Purdue University #2

University of Minnesota

University of Oregon

Electrical & Computer Engineering

Ag & Bio Engineering


Project Personnel: Jake Carlson (PI), Camille Andrews, Marianne Stowell Bracke, Michael Fosmire, Jon Jeffryes, Lisa Johnston, Megan Sapp Nelson, Dean Walton, Brian Westra, Sarah Wright.