Teaching Data Management to Health Science, Science & Engineering Students

Donna Kafel

University of Massachusetts Medical School

Follow this and additional works at: https://escholarship.umassmed.edu/lib_articles

Part of the Library and Information Science Commons, Life Sciences Commons, Medicine and Health Sciences Commons, and the Physical Sciences and Mathematics Commons

Repository Citation
https://doi.org/10.13028/j6vq-ka50.
Retrieved from https://escholarship.umassmed.edu/lib_articles/136

This material is brought to you by eScholarship@UMMS. It has been accepted for inclusion in Library Publications and Presentations by an authorized administrator of eScholarship@UMMS. For more information, please contact Lisa.Palmer@umassmed.edu.
Teaching Data Management to Health Science, Science & Engineering Students

Donna Kafel, MSLIS
Project Coordinator
Lamar Soutter Library,
University of Massachusetts Medical School

This project is made possible by a grant from the U.S. Institute of Museum and Library Services and with funds from the National Library of Medicine under Contract No. N01-LM-6-3508.
Planning a Data Management Curriculum

Joint project of the libraries at the University of Massachusetts Medical School and Worcester Polytechnic Institute
Initial Planning

Education Committee

• Faculty
• Librarians
• Graduate student
• Consultants: curriculum, instructional design, evaluation
Preliminary Activities

- Literature search
- Student interviews
- Faculty interviews
- Presentations by data librarians
Findings

Photo by e-magic http://www.flickr.com/photos/emagic/51069522/
Introduction: Overview of Research Data Management

- Module 1: Data: Types, Stages, and Formats
- Module 2: Metadata
- Module 3: Data Storage, Backup, and Security
- Module 4: Legal and Ethical Considerations
- Module 5: Data Sharing and Reuse Policies
- Module 6: Archiving and Preservation
Research Case Scenarios

- Aerospace engineering
- Biomedical lab research
- Clinical study on hip replacements
Customizing Data Management Instruction

• Mix and match modules as needed by discipline/course level
• Provide lesson plans for diverse modes of delivery: online, in person, hybrid
• Case based activities and assessment
• Readings
• Assignments
Next steps...

• Develop a prototype online course module

• Lesson plans and research case scenarios will be available online

• With implementation funds: develop course content, pilot modules, develop data repository for data generated from student projects

http://library.umassmed.edu/imls_grant.cfm