



impact assessment

metadata

ontological modeling

scientific data management

scientific communication

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Dr. Qin is an internationally-recognized metadata expert. Metadata are structured, encoded data that describe characteristics of information-bearing entities to aid in the identification, discovery, assessment, and management of the described entities. Dr. Qin's book on the subject is considered a comprehensive volume on metadata, which provides diverse information on data organization and representation contexts. Building on more than 15 years of experience in scientific communication, and information and knowledge organization, Dr. Qin also assesses patterns and trends in information exchange through scientometric methods and ontological modeling. She is currently working with scientists to apply metadata and ontology methodologies in studying scientific research workflows and managing data and other artifacts from the research process. Dr. Qin serves on the advisory board of Dublin Core Metadata Initiative, an organization supporting innovation in metadata design and best practices across the metadata ecology.

Education:

1996 Ph.D. Library and Information Studies, University of Illinois at Urbana-Champaign

1986 M.L.I.S. Library and Information Studies, University of Western London, Canada

1982 B.A. Library Science, Wuhan University, China

Recent Research Projects:

Producing Library Faculty to Educate the Next Generation of E-Science Professionals. Institute for Museum and Library Services. PI: Zhang, P Co-PI: Qin, J.

This project will train an initial cohort of librarians to work jointly with researchers in the Science, Technology, Engineering and Mathematics fields. Scientific research is rapidly generating an abundance of data that must be managed and preserved resulting in a critical need for specialized professionals.

Building an eScience Librarianship Curriculum for an eResearch Future (eSLib-I).

Institute for Museum and Library Services. PI: Qin, J. Co-PIs: Oakleaf, M. and Steinhart, G.

The scope of this project is to develop a new curriculum and train a group of students (e-science fellows) who have a science background to become e-science librarians. The e-science fellows participate in a series of research projects led by the PIs and research assistant. These projects help the fellows understand faculty data management needs and requirements as well as strategies for institutionalizing data services, building a community of practice, and utilizing technological infrastructures for managing and providing services for scientific data. The learning-outcome-driven design of the new curriculum addresses the new knowledge and skill set in:

- Understanding data management needs and practices in disciplines
- Raising awareness among faculty on data management
- Integrating data from various databases existing in the university
- Establishing methods and procedures

Recent Scholarship:

Qin, J. and J. D'Ignazio, (2010). **The central role of metadata in a science data literacy course.** *Journal of Library Metadata*, 10(2): 188-204.

Crowston, K. and J. Qin, (2011). **A capability maturity model for scientific data management: Evidence from the literature.** In: *Proceedings of the American Society for Information Science and Technology*, New Orleans, LA, October 9-13, 2011.



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