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Curriculum Vitae (Updated 8/16/2016)

ACADEMIC BACKGROUND

Education

Ph.D., Graduate School of Library and Information Science, University of Illinois at
    Urbana-Champaign, 1996.
M.L.I.S. University of Western Ontario, London, Canada, 1986.
B.A. in Library Science, Wuhan University, Wuhan, China, 1982.

Experience:

Professor, Syracuse University, 2014-present
Associate Professor, Syracuse University, 2005-2014
Assistant Professor, Syracuse University, 1999-2005
Assistant Professor, University of Southern Mississippi, 1996-1999
Teaching/Research Assistant, Graduate School of Library and Information Science, University of
    Illinois at Urbana-Champaign, 1994-1996
Graduate Assistant, East Asian Library & Veterinary Medicine Library, University of Illinois at
    Urbana-Champaign, 1992-1994.
Research Assistant, Graduate School of Library and Information Science, University of Illinois
    at Urbana-Champaign, 1991-1992.
Lecturer, Wuhan University, China, 1986-1991

Other experience:

Visiting Professor, Zhejiang University, China, 2008-10
Visiting scholar, University of Carlos III Madrid, May 5-18, 2008
Visiting scholar, Shanghai Library, China, June 2006
Visiting scholar, Online Computer Library Center (OCLC), September-November 2002
Consultant, Workforce Development Ontology for the Institute for Work and the Economy,
    2001-2009

Scholarships and Awards

- Josie B. Houchens Fellowship, University of Illinois at Urbana-Champaign, 1995.
- Graduate College Dissertation Grant, University of Illinois at Urbana-Champaign, 1994.

- ▪ Graduate College Conference Travel Grant, University of Illinois at Urbana-Champaign, 1994.
- ▪ Hostettel A & M Scholarship, University of Illinois at Urbana-Champaign, 1993.
- ▪ Fellowship of the Mortenson Center for International Library Program, University of Illinois at Urbana-Champaign, 1992.

AREAS OF RESEARCH INTEREST

Information and knowledge organization: metadata, schema representation of information, ontological modeling
Scientific communication: scientific data management, impact assessment, collaboration networks

TEACHING RESPONSIBILITIES (* denotes a new course I developed)

IST459	Introduction to Database Management Systems
IST558*	Technologies for Web Content Management
IST616	Information Resources: Organization and Access
IST600*	Data Services
IST659	Data Administration Concepts and Database Management
IST676	Fundamentals of Digital Data (old title: Digital Libraries)
IST731*	Knowledge Organization Structures
IST681*	Metadata
IST687*	Applied Data Science (old title: Scientific Data Management)
IST777	Statistics in Information Transfer
IST800*	Doctoral Pro-seminar: Scholarly Communication

GRANTS

Qin, J. (PI) & Hemsley, J. (co-PI). (2016-2018). Cyberinfrastructure-Enabled Collaboration Networks. National Science Foundation Science of Science and Innovation Policy (SciSIP) program. $381,481.

Huang, Y. (PI), Lankes, R.D., & Qin, J. (co-PIs). (2015-2018). Community as collection. Institute for Museum and Library Services, National Leadership Grants for Libraries. $281,263

Brown, D. (PI), Couvares, P., Deelman, E., & Qin, J. (co-PIs). (2014-2017). CIF21 DIBBs: Domain-aware management of heterogeneous workflows: Active data management for gravitational-wave science workflows. National Science Foundation DataNet program. $900,000

Qin, J. (PI), Stanton, J., & Wang, J. (co-PIs). (2013-2015). Discovering Collaboration Network Structures and Dynamics in Big Data. National Science Foundation. $290,567

Qin, J. (PI) & Crowston, K. (co-PI). (2013-2014). A Capability Maturity Model for Research Data Management Training and Performance Assessment. Inter-University Consortium for Political and Social Research / Alfred P. Sloan Foundation. $18,000

Qin, J. (PI). (2011-2015). Producing Library Faculty to Educate the Next Generation of E-Science Professionals. Institute for Museum and Library Services, Laura Bush 21st Librarian Grant Program. $741,936

Qin, J. (PI), Oakleaf, M., & Steinhart, G. (co-PIs). (2009-2012). Building an eScience Librarianship Curriculum for an eResearch Future. Institute for Museum and Library Services, Laura Bush 21st Librarian Grant Program, Grant # RE-05-09-0061-09. $887,533

Qin, J. (PI) & Small, R. (co-PI) (2007-2009). Enhancing Scientific Data Literacy in Undergraduate Science and Technology Students. U.S. National Science Foundation Course, Curriculum and Laboratory Improvement Program. $148,284

Qin, J. (PI) & Kwasnik, B. (co-PI) (2001-2002). Building an Interactive Digital Lab for Distance and Campus Students. Syracuse University Vision Fund. $22,258

Qin, J. (PI). (1997). Cognitive Relevance in Citation Index and Citation-Semantic Searching: Antibiotic Resistance. Institute for Scientific Information (ISI) Citation Research Grant. $3000

Qin, J. (PI). (1997). Computational Representation of Web Objects in an Interdisciplinary Digital Library: A Survey and an Experiment in Polymer Science. OCLC Library and Information Science Research Grant. $9600

PUBLICATIONS

Book

Zeng, M.L. and J. Qin. (2016). *Metadata*. 2nd ed. Chicago: ALA-Neal-Schuman. Table of contents is available at http://www.metadataetc.org/book-website2nd/index.html.

Refereed Book Chapters

Qin, J. (2004). Web content management. In: H. Bidgoli (Ed.), *The Internet Encyclopedia*. Vol. 3, 687-698. New York: John Wiley & Sons. ISBN: 0-471-22201-1

Qin, J. (2002). Semantic patterns in bibliographically coupled citations. In: A. Kent (Ed.), *Encyclopedia of Library and Information Science*, Vol. 72 (pp. 341-365). New York: Marcel Dekker.

Refereed Journal Articles

1. Qin, J. & J. D'Ignazio. (2016). Enhancing scientific data literacy in college students: Experience and lessons learned. *Journal of InfoLib and Archives*, 8(1): 1-27. DOI: 10.6575/JILA.2016.88.01

2. Costa, M., J. Qin, & S. Bratt. (2016). Emergence of collaboration networks around large scale data repositories: A study of the genomics community using GenBank. *Scientometrics,* 108(1): 21-40. DOI: 10.1007/s11192-016-1954-x.

3. Liu, X. & J. Qin. (2014). An interactive metadata model for structural, descriptive, and referential representation of scholarly output. *Journal of the American Society for Information Science and* Technology, 65(5): 964-983.

4. Steinhart, G. & Qin, J. (2012) Mentoring for emerging careers in eScience librarianship: An iSchool – Academic Library Partnership. *Journal of eScience Librarianship*, http://escholarship.umassmed.edu/jeslib/vol1/iss3/1/

5. Qin, J. & J. D'Ignazio. (2010). The central role of metadata in a science data literacy course. *Journal of Library Metadata*, 10: 2, 188-204. http://dx.doi.org/10.1080/19386389.2010.506379

6. Chen, C., K. Sun, G. Wu, Q. Tang, J. Qin, K. Qiu, Y. Fu, X. Wang, & J. Liu. (2009). The impact of Internet resources on scholarly communication: A citation analysis. *Scientometrics*, 81(2): 459-474.

7. Park, J.-H. & J. Qin (2007). Exploring the willingness of scholars to accept open access: a grounded theory approach. *Journal of Scholarly Publishing*, 38(2): 55-84.

8. Qin, J. & N. Hernández. (2006). Building interoperable vocabulary and structures for learning objects. *Journal of the American Society for Information Science and Technology*, 57(2): 280-292. http://jqin.mysite.syr.edu/pubs/LOV_JASIST2006.pdf

9. Qin, J. & M. Taffet. (2004). Vocabulary use in XML standards in the financial and capital markets domain. *Knowledge and Information Systems,* 6(3): 269-289.

10. Qin, J. (2004). Ontologies and Semantic Web: current development and research agenda. *Library and Information Technology* (Abstract in English, text in Chinese), No.1, 16-23.

11. Qin, J. & S. Paling. (2001). Converting a controlled vocabulary into an ontology: the case of GEM. *Information Research: An International Electronic Journal,* 6(2): http://InformationR.net/ir/6-2/paper94.html (January).

12. Qin, J. (2000). Semantic similarities in a keyword database and a controlled vocabulary database: an investigation in antibiotic resistance literature. *Journal of the American Society for Information Science,* 51(2): 166-180.

13. Qin, J. & K. Wesley. (1998). Web indexing with meta fields: a survey of Web objects in polymer science. *Information Technology and Libraries,* 17(3): 149-156.

14. Qin, J., F.W. Lancaster & B. Allen. (1997). Levels and types of collaboration in interdisciplinary research. *Journal of the American Society for Information Science,* 48(10): 893-916.

15. Allen, B., J. Qin, & F. W. Lancaster. (1994). Persuasive communities: a longitudinal analysis of references in the *Philosophical Transactions of the Royal Society*, 1665-1990. *Social Studies of Science,* 24(2): 279-310.

16. Qin, J. (1994). An investigation of research collaboration in the sciences through the *Philosophical Transactions of the Royal Society*, 1901-1991. *Scientometrics* 29(2): 219-238.

Refereed Conference Papers

1. Qin, J. & M.L. Zeng. (in review). Structures and relations of knowledge nodes: Exploring a knowledge network of disease from precision medicine research publications. *iConference 2017, Wuhan, Chin*a.

2. Qin, J., B. Dobreski, & D. Brown. (2016). Metadata and reproducibility: A case study of gravitational wave data management. In: *Proceedings of the 11th International Digital Curation Conference, 22 - 25 February 2016, Amsterdam, Netherlands*.

3. Liu, X., M. Chen, & J. Qin. (2014). Interlinking cross language metadata using Hheterogeneous graphs and Wikipedia. *Dublin Core International Conference DC-2014, Austin, TX, October 8-10, 2014.*

4. Costa, M., J. Qin, & J. Wang. (2014). Research networks in data repositories. In: *Joint Conference of Digital Libraries (JCDL) London, UK, September 8-10, 2014.*

5. Qin, J. & K. Li. (2013). How portable are the metadata standards for scientific data? A proposal for a metadata infrastructure. In: *Dublin Core International Conference DC-2013, Lisbon, Portugal, September 2-6, 2013.*

6. Qin, J., A. Ball, & J. Greenberg. (2012). Functional and architectural requirements for metadata: Supporting discovery and management of scientific data. *Dublin Core International Conference DC-2012, Kuching, Malaysia, September 3-7, 2012*.

7. Crowston, K. & 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.*

8. Qin, J., M. Chen, X. Liu, & A. Wiggins. (2010). Linking entities in scientific metadata. In: *Proceedings of the Dublin Core International Conference DC-2010*, Pittsburg, PA, October 20-22, 2010. http://dcpapers.dublincore.org/ojs/pubs/article/view/1013

9. Qin, J. & J. D'Ignazio. (2010). Lessons learned from a two-year experience in science data literacy education. In: Proceedings of the 31st Annual International Association of Scientific and Technology University Libraries Conference, June 20 – 24, 2010, West Lafayette, Indiana. http://docs.lib.purdue.edu/iatul2010/conf/day2/5

10. Qin, J. (2010). Empirically assessing impact of scholarly research. In: *Proceedings of the iConference, February 3-6, 2010, Champaign, Illinois*. https://www.ideals.illinois.edu/bitstream/handle/2142/14924/qin.pdf?sequence=2

11. Qin, J., X. Liu, M. Chen, X. & Lin. (2009). Using metadata for query refinement and recommendation. In: : *Proceedings of the Dublin Core International Conference, October 12-16, 2009, Soul, Korea.* http://dcpapers.dublincore.org/ojs/pubs/article/view/955

12. Yang, B. & J. Qin. (2008). Data collection system for link analysis. In: Third International Conference on Digital Information Management (ICDIM 2008), November 13-16, 2008. DOI: 10.1109/ICDIM.2008.4746781.

13. Liu, X, M. Chen, J. Qin, & J-H. Park. (2008). Automatic semantic mapping between query terms and controlled vocabulary using WordNet and Wikipedia. In: *Proceedings of the American Society for Information Science and Technology, October 24-29, 2008, Columbus, Ohio*. http://onlinelibrary.wiley.com/doi/10.1002/meet.2008.1450450286/full

14. Chen, M., X. Liu, & J. Qin. (2008). Semantic relation extraction from socially-generated tag: A methodology for metadata extraction. In: *Proceedings of the Dublin Core International Conference, September 22-25, 2008, Berlin, Germany*. http://dcpapers.dublincore.org/ojs/pubs/article/view/924

15. Qin, J. (2008). Controlled semantics vs. social semantics: An epistemological analysis. In: *Proceedings of the Tenth International Society for Knowledge Organization Conference, August 5-8, 2008* (pp. 233-238). http://jqin.mysite.syr.edu/pubs/isko2008_qin.pdf

16. Qin, J., P. Creticos, & W. Hsiao. (2006). Adaptive modeling of workforce domain knowledge. In: G. Budin, C. Swertz, & K. Mitgutsch (Eds.), *Knowledge Organization for a Global Learning Society: Proceedings of the Ninth International Society for Knowledge Organization Conference, July 4-8, 2006, Vienna, Austria* (pp. 287-294). Wurzburg, Germany: Ergon Verlag. http://jqin.mysite.syr.edu/pubs/adaptive_modeling_isko2006.pdf

17. Qin, J. & J. C. Prado. (2005). Use of learning object vocabulary in GEM queries. In: T. Baker and E. Mendez (Eds.), *DC-2005 Proceedings of the International Conference on Dublin Core and Metadata Applications: Vocabularies in Practice, Madrid, Spain, September 12-15, 2005* (pp. 179-182). Leganes, Spain: Library and Information Sciences Department of University Carlos III of Madrid. http://dcpapers.dublincore.org/ojs/pubs/article/view/816

18. Qin, J. & F. Zhang. (2004). Managing institutional repositories with an ontology-based approach. In: Z. Chen et al. (Eds.), *Digital Libraries: International Collaboration and Cross-Fertilization: 7th International Conference on Asian Digital Libraries, ICADL 2004, Shanghai, China, December 13-17, 2004 Proceedings* (pp. 300-309). LNCS3334. Berlin: Springer.

19. Creticos, P. & J. Qin. (2004). Open Knowledge Exchange (OKE) for workforce development. In: C. Bussler et al. (Eds.), *The Fifth International Conference on Web Information Systems Engineering, WISE 2004 Workshops, Brisbane, Australia, November 22-24, 2004, Proceedings*, 73–81. LNCS 3307, Berlin: Springer.

20. Qin, J. & N. Hernandez. (2004). Ontological representation of learning objects: building interoperable vocabulary and structures. In: *Proceedings of WWW2004*, New York, May 17-22, 2004, 348-349. New York: ACM Press.

21. Qin, J. & J. Godby. (2003). Incorporating educational vocabulary in learning object Metadata Schemes. In: *Research and Advanced Technology for Digital Libraries: 7th European Conference, ECDL 2003, Trondheim, Norway, August 17-22, 2003, Proceedings*, 52-57. Berlin: Springer.

22. Qin, J. & C. Finneran. (2002). Ontological representation of learning objects. In: *Proceedings of the Workshop on Document Search Interface Design and Intelligent Access in Large-Scale Collections*, JCDL'02, July 18, Portland, OR. http://xtasy.slis.indiana.edu/jcdlui/uiws.html

23. Qin, J. (2002). Evolving paradigms of knowledge representation: a comparative study of classification, XML/DTD, and ontology. In: *Proceedings of the Seventh International Society for Knowledge Organization Conference*, July 10-12, 2002, Granada, Spain, 465-471. Würzburg, Germany: Ergon. http://jqin.mysite.syr.edu/pubs/qin_isko2002.pdf

24. Qin, J. & J. Chen. (2001). A multi-layered, multidimensional representation of digital educational resources. In: *Subject Retrieval in the Networked Environment: Proceedings of the IFLA Satellite Meeting held in* Dublin, OH, 14-16 August 2001, 90-96. München: K. G. Saur (published in 2003).

25. Qin, J. (1998). Information Modules in a Scientific/Engineering Workstation: Roadblocks in Utilizing Electronic Information for Interdisciplinary Research. In: *Proceedings: Socioeconomic Dimensions of Electronic Publishing Workshop—Meeting the Needs of the Engineering and Scientific Communities, Santa Barbara, CA, April 23-25*, 121-126. Piscataway, NJ: IEEE, 1998.

26. Qin, J. (1995). Collaboration and publication productivity: an experiment with a new variable in Lotka's Law. In: *Proceedings of the Fifth Biennial Conference of the International Society of Scientometrics and Informetrics*, 445-454. Medford, NJ: Learned Information.

Refereed Conference Posters

1. Bratt, S.E., M. Costa, J. Hemsley, & J. Qin. (2016). Validating science's power players:

Scientometric mixed methods for data verification in identifying influential scientists in a genetics collaboration community. *iConference, Philadelphia, PA, March 2016.*

2. Qin, J. & B. Dobreski. (2016). Modeling domain metadata beyond metadata standards. *iConference, Philadelphia, PA, March 2016.*

3. Qin, J., M. Costa, J. Wang. (2015). Methodological and technical challenges in big scientometric data analytics. iConference 2015, Newport Beach, CA, March 24-27, 2015.

4. Sharma, S. & J. Qin. (2014). Is Data Literacy Awareness a Marker for Data Management Preparedness? The 78th Association for Information Science and Technology Annual Meeting, October 31 - November 5, 2014, Seattle, Washington.

5. Curty, R. & J. Qin. (2014). Towards a model for research data reuse behavior. In: *Proceedings of the American Society for Information Science and Technology*, 51: 1–4. doi: 10.1002/meet.2014.14505101072.

6. Qin, J., M. Costa, & J. Wang. (2014). Attributions from data authors to publications: Implications for data curation. *The 9th International Digital Curation Conference, 24-27 February 2014, San Francisco.*

7. Huang, H. & J. Qin. (2013). Understanding metadata functional requirements in genome curation work. In: *Proceedings of the American Society for Information Science and Technology*, 50: 1–4. doi: 10.1002/meet.14505001124.

8. D'Ignazio, J., J. Qin, & J. Kitlas. (2012). Using internship experience to evaluate a new program in eScience librarianship. *iConference 2012, Toronto, Canada, February 7-10, 2012.*

9. Curty, R. & J. Qin. (2012). An exploratory study of indicators for analyzing institutional repositories' performance. *iConference 2012, Toronto, Canada, February 7-10, 2012.*

10. Qin, J., H. Turtle, & D. Brown. (2011). A Provenance Metadata Model for Gravitational Wave Datasets. *International Conference for Digital Curation, Bristol, UK, 5 - 7 December 2011.*

11. Liu, X., M. Chen, & J. Qin. (2011). ScholarWiki system for knowledge indexing and retrieval. In: *Proceedings of the American Society for Information Science and Technology, New Orleans, LA, October 9-13, 2011.*

12. Jones, J., M. Costa, J. Qin, K. Kelly, & M. Marlino. (2011). Value and impact metrics for open repositories. *Open Repositories 2011, June 6-11, 2011, Austin, Texas.*

13. Bohémier, K., T. Atwood, A. Kuehn, & J. Qin. (2011). A content analysis of institutional data policies. *Joint Conference of Digital Libraries, June 13-17, 2011, Ottawa, Canada.*

14. Qin, J. & C. Solinger. (2011). Institutional policies on science research data: A pilot analysis. *iConference 2011, Seattle, Washington, February 8-11, 2011*.

15. Qin, J., J. D'Ignazio, M. Oakleaf, K. Crowston, A. Wiggins, & G. Steinhart. (2010). Educating eScience librarians. In: *The 6th International Digital Curation Conference, December 6-8, 2010, Chicago, IL*.

16. Crowston, K. & J. Qin. (2010). A capability maturity model for scientific data management. In: *Proceedings of the American Society for Information Science and Technology, October 24-26, 2010, Pittsburgh, PA*.

17. D'Ignazio, J. A. & J. Qin. (2008). Faculty data management practices: a campus-wide census of STEM departments. In: *Proceedings of the American Society for Information Science and Technology, October 24-29, 2008, Columbus, Ohio*.

18. Qin, J. (2008). Scientific Data Literacy (SDL): Challenges and lessons learned in developing the SDL course. *U.S. National Science Foundation Course, Curriculum, and Laboratory Improvement PI Conference, August 13-15, 2008*.

19. Chen, M. & J. Qin. (2008). Deriving ontology from folksonomy and controlled vocabulary. *iConference 2008, University of California Los Angeles, February 28-29, 2008*.

Invited Book Chapters

1. Qin, J. (2009). Organizing information and knowledge in the eScience/eResearch environment. In: F. Ma (Ed.), *Advances in Information Resource Planning and Knowledge Science*, pp. 241-267. Wuhan, China: Wuhan University Press. (Text in Chinese)

2. Qin, J. & J.C. Prado. (2006). The semantic and syntactic model of metadata. In: *Alfabetização Digital e Accesso ao Conhecimento (Série Comunicação da Informacao Digital 2006)*, Vol. 4 (pp. 143-156). Brasilia: Departmento de Ciência da Informação e Documentação, Universidade de Brasilia.

3. Qin, J. (2006). An overview of research in Semantic Web and ontologies. In: Z. Wang (Ed.), *Advances in Information Science: Annual Review 2004-2005*, Vol. 6 (pp. 46-58). Beijing: National Defense Industry Press. (Text in Chinese) ISBN: 7-118-04438-5

4. Qin, J. (2005). Ontology-based Semantic Web. In: M. Zeng et al. (Eds.), *Knowledge Technologies and Applications* (pp. 99-120). Beijing, China: Scientific and Technical Documents Publishing House. (Text in Chinese) ISBN: 7-5023-5134-5

Invited Journal Articles

Qin, J. (2012). On the horizon of eScience librarianship. *Journal of eScience Librarianship*, 1:1, http://works.bepress.com/jian_qin/6

Qin, J. (2008). F.W. Lancaster: A bibliometric analysis. *Library Trends*, 56(4): 954-967.

Qin, J. (2000). Representation and organization of information in the Web space: From MARC to XML. *Informing Science,* 3(2): 83-88 (http://inform.nu/).

White Paper

Qin, J. & D'Ignazio (2013). Filling the gap between project-level data management needs and disciplinary data repositories.

Qin, J., D'Ignazio, J., & Baldwin, S. (2011). A workflow-based knowledge management architecture for geodynamics data. A White paper submitted to NSF GEO/OCI EarchCube Charrette meeting: http://jqin.mysite.syr.edu/pubs/ EarthCube_white_paper_workflow-based_KM_architecture.pdf. Also available from: http://earthcube.ning.com/page/whitepapers

Other Journal Articles

Lin, X. & J. Qin. (2002). Converging knowledge structures in a repository. *Library and Information Services,* No. 10: 5-13. (published in China)

Qin, J. & J. Chen. (2002). Integration of a resource-oriented vocabulary with knowledge-oriented vocabulary systems. *Journal of Academic Libraries*, 20(2): 2-8.

Qin, J. (1999). Discovering semantic patterns in bibliographically coupled documents. *Library Trends*, 48(1): 108-131.

Qin, J. (1995). Issues in scientific communication and the potential for information marketing in China. *Bulletin of the American Society for Information Science,* 21(5): 7-8.

Qin, J. (1990). On the statistical measurements of libraries. *The Bulletin of the Library Science Association of China,* no. 3: 42-45. (Text in Chinese)

Qin, J. & H. Fu. (1985). The public library and the GNP: a correlation analysis. *Library Science Research*, no. 5: 35-37. (Text in Chinese)

Qin, J. & H. Fu. (1985). An introduction to indexing and abstracting services in economics and business in Western countries. *World Books*, no. 4: 24-26 (1985). (Text in Chinese)

Qin, J. (1984). A history of economics and business periodicals in China. *World Books*, no. 7: 5-8. (Text in Chinese)

Qin, J. (1984). The supply and demand and the effectiveness of bibliographic services. *Library World*, no. 1: 34-37. (Text in Chinese)

Qin, J. (1984). A statistical analysis of bibliographic research in recent years. *The Bulletin of the Library Association of China*, no. 4: 61-63. (Text in Chinese)

Qin, J. & H. Fu. (1983). Issues in economics and business periodicals and newspapers. *Utilization of Books and Periodicals*, no. 4: 42-44. (Text in Chinese)

Other Conference Papers

Qin, J. (2013). Infrastructure, standards, and policies for research data management. In: *The 8ᵗʰ International Conference on Cooperation and Promotion of Information Resources in Science and Technology (COINFO'13), October 25-27, 2013, Wuhan, China*. Beijing: Science Press.

Qin, J. (2003). Semantic Web and ontologies: current development and research agenda. *Symposium of Sustainable Development and Innovations for Libraries*, Beijing, China, December 20-23, 2003.

Lin, X. & J. Qin. (2002). Building a topic map repository. In: *Knowledge Technologies Conference, March 11-13, 2002, Seattle, Washington*. http://www.knowledgetechnologies.net/proceedings/presentations/lin/xialin.pdf

Qin, J. (2001). Ontology-based metadata for intelligent digital libraries. In: C. C. Chen (ed.), *Global Digital Library Development in the New Millennium*, pp. 243-250. Beijing: Tsinghua University Press.

Qin, J. (1998). Cognitive relevance in citation index and citation-semantic searching: antibiotic resistance. In: *19ᵗʰ Annual National Online Meeting Proceedings--1998*, 297-306. Medford, NJ: Information Today, 1998.

Qin, J. (1995). The Development of collaboratories in the U.S. and its inspirations for science policy of China. In: *Proceedings of the Second Academic Conference of Young Scientists*, 498-502. Beijing: China Science and Technology Press, 1995. (Text in Chinese) http://sdl.syr.edu:2082/frontend/x/files/seldir.html?dir=%2fhome%2fsdladmin%2fpublic_html&file=course

Conference/Panel Presentations

Qin, J. (2015). Turning data into knowledge: Modeling and structuring for Linked Open Data. Presentation at Networked Knowledge Organization Systems (NKOS) Workshop, International Conference for Asian Digital Libraries (ICADL), Seoul, Korea, December 9, 2015.

Qin, J. (2014). Data literacy for data science professionals. Panel presentation at The 78ᵗʰ Association for Information Science and Technology Annual Meeting, October 31 - November 5, 2014, Seattle, Washington.

Curty, R., Y. Kim, & J. Qin. (2013). What have scientists planned for data sharing and reuse? A content analysis of NSF awardees' data management plans. Panel presentation for the Research Data Access and Preservation (RDAP), April 4-5, 2013, Baltimore, Maryland. http://www.slideshare.net/asist_org/rdap13-curty-what-have-scientists-planned-for-data-sharing-and-reuse-a-content-analysis-of-nsf-awardees-data-management-plans

Qin, J., A. Ball, J. Greenberg. (2013). Functional and architectural requirements for metadata: Supporting discovery and management of scientific data. Panel presentation for the Research Data Access and Preservation (RDAP), April 4-5, 2013, Baltimore, Maryland. http://works.bepress.com/jian_qin/8

Qin, J. (2011). Developing Data Services to Support eResearch (half day). A tutorial presented at the International Conference on Asia-Pacific Digital Libraries (ICADL 2011), Beijing, China, October 24-27, 2011. http://www.icadl2011.org/Tutorials.shtml

Qin, J. & J. D'Ignazio. (2008). Facilitating discovery of and access to scientific data through developing metadata and training scientific data managers. In: The 21st International CODATA Conference: Scienfitic Information for Society – From Today to the Future, Kyiv, Ukraine, October 5-8, 2008. http://www.codata.org/08conf/abstracts/session-SharifRaed-The%20Social%20and%20Technological%20Issues%20in%20Scientific%20Data%20Management.htm

Qin, J. (2006). Metadata as the underpinning of sustainable and effective access to scientific data. Panel presentation at the CODATA'06: Scientific Data and Knowledge within the Information Society, October 22-25, 2006, Beijing, China.

Qin, J. & R. Sharif. (2006). Metadata research: Models, schemas, and realities. Panel presentation at the ASSIT Annual Meeting, November 3-8, 2006, Austin, Texas.

Qin, J. (2006). Encoding KOS: Languages for machine understanding and processing. Panel presentation at the Ninth International Conference for Knowledge Organization, July 5-9, 2006, Vienna, Austria.

Qin, J. & J. H. Park. (2004). The Impact of open access journals on scientific collaboration: a methodological discussion. Panel presentation at the ASIST Annual Meeting, November 12-17, 2004, Providence, Rhode Island.

Qin, J. & W. Y. Hsiao. (2004). How users search in educational digital libraries: Findings of GEM query log analysis. Panel presentation at the ASIST Annual Meeting 2004,

Tarr, S. & J. Qin. (2004). Classifying fire service video clips with a user-centered approach. Panel presentation accepted by the ASIST Annual Meeting 2004. November 12-17, 2004, Providence, Rhode Island.

Qin, J. (2002). Collaborative construction of a content architecture for digital resources. Panel presentation at ASIST Annual Meeting, November 18-21, 2002, Philadelphia, PA.

Qin, J. (1999). Discipline- and industry-wide metadata schemas: semantics and namespace control. Panel presentation at ASIS Annual Meeting 1999.

Qin, J. (1997). Semantic patterns in citation clusters: subject distribution and shifting in the literature of antibiotic resistance in pneumonia. Panel presentation at the American Society for Information Science Annual Meeting 1997.

Reports:

Qin, I. & K. Crowston. (2014). A Capability Maturity Model for Research Data Management. http://rdm.ischool.syr.edu/xwiki/bin/view/Main/. Product from the Inter-University Consortium for Political and Social Research / Alfred P. Sloan Foundation grant.

Qin, J., Steinhart, G., & J. D'Ignazio. (2013). Building an eScience Librarianship Curriculum for an eResearch Future: final report to IMLS for the Laura Bush 21st Century Librarian Program grant award #RE-05-09-0061-09.

Qin, J. & J. D'Ignazio. (2009). Enhancing scientific data literacy in undergraduate science and technology students: final report for NSF CCLI award #0633447. 78 pages.

Qin, J. *Computational Representation of Web Objects: A Framework for Adapting and Extending Dublin Core Metadata Elements*. A report to the OCLC with the support of the Library and Information Science Research Grant, January 1999. http://worldcat.org/arcviewer/1/OCC/2003/06/11/0000003491/viewer/file1.html

Book Reviews:

Review of G.C. Bowker & S. L. Star (eds). (2000), How classifications work: problems and challenges in an electronic age. *Information Processing and Management,* 36, 331-339.

Review of Chongde Wang. (1995). *Bibliometrics: A Textbook. Journal of Information, Communication and Library Science* 2(2): 84-85.

Editorials

Qin, J. (2006). Editorial – Vocabularies in practice: a selection of papers from DC2005. *New Technology of Library and Information Service*, No. 1, 1-2. (published in China)

Qin, J., Kwasnik, B., & Roussinov, D. (2001). Editorial - Knowledge Representation. *Information Research: An International Electronic Journal,* 6(2): http://informationr.net/ir/6-2/KReditor62.html.

Qin, J. (2000). Working with data: discovering knowledge through mining and analysis. *Bulleting of the American Society for Information Science & Technology*, 27(1): 5-6.

Qin, J. and Norton, M. J. (1999). Introduction [for the Knowledge Discovery in Bibliographic Databases issue]. *Library Trends*, 48(1): 1-8.

Special Issues Edited:

Qin, J. (Ed.) (2006). Vocabularies in practice: a selection of papers from DC2005. *New Technology of Library and Information Service*, No. 1.

Qin, J., Kwasnik, B., & Roussinov, D. (Eds.) (2001). Special issue on taxonomy and classification. *Information Research: An International Electronic Journal,* 6(2): http://InformationR.net/6-2/paper94.html.

Qin, J. (Ed.) (2000). Knowledge discover in databases. *Bulletin of the American Society for Information Science,* 27(1).

Spink, A. & Qin, J. (Eds.) (2000). Web research and information retrieval. *Information Processing and Management,* 36(2): 205-89.

Qin, J. & Norton, M. J. (Eds.). (1999). Discovering knowledge in bibliographic databases. *Library Trends,* 48(1).

INVITED LECTURES AND PRESENTATIONS

Americas & Europe:

Qin, J., J. Hemsley, & M. Costa. (2016). From data to knowledge: Theoretical and methodological implications of CI- enabled data repositories on impact assessment. NIH and the Science of Science and Innovation Policy: A Joint NIH-NSF Workshop April 7th & 8th, 2016, Bethesda, MD.

"Stories from research frontline concerning data management and services." Presentation at the 8th Annual University of Massachusetts and New England Area Librarian e-Science Symposium, April 6, 2016, Worcester, Massachusetts. http://escholarship.umassmed.edu/escience_symposium/2016/program/9/

"Data Infrastructural Services: Challenges and Opportunities for Library and Information Professionals." Keynote presentation at the Brazilian Conference of Research in Information Science, October 27-31, 2014, Belo Horizonte, Brazil.

"Data-Driven Research: Exploring New Territories in Information Science." Presentation at the Brazilian Conference of Research in Information Science, October 27-31, 2014, Belo Horizonte, Brazil.

"Educating a New Breed of Data Scientists for Research Data Management." Presentation at the Brazilian Conference of Research in Information Science, October 27-31, 2014, Belo Horizonte, Brazil.

"Educating a new breed of data scientists for scientific data management." A panel presentation at Microsoft eScience Workshop, Chicago, Illinois, October 9, 2012. http://research.microsoft.com/en-US/events/escience2012/agenda.aspx

"Developing Data Services to Support eScience/eResearch." A workshop presented at University of Washington Health Sciences Library, Seattle, Washington, April 17, 2012.

"Developing Data Services to Support eScience/eResearch." Priscilla Mayden Lecture Workshop, Spencer S. Eccles Health Sciences Library, University of Utah, Salt Lake City, Utah, February 22, 2012. http://library.med.utah.edu/or/pmayden/workshop.php

"Scientific Data Management: 2011 Professional Development Day for New England Librarians. A One-Day Workshop." Amherst, Massachusetts, March 16, 2011. http://libraryguides.umassmed.edu/2011PDD

"Training New Types of Information Professionals for New Forms of Information Work: It's About Skills and Products." Panel presentation at the National Center for Atmospheric Research (NCAR) Library, Boulder, Colorado, November 17, 2010.

"Linking Entities in Scientific Metadata." With Miao Chen. Presentation at Cornell University Library, October 15, 2010. http://metadata-wg.mannlib.cornell.edu/forum/index.php?date=2010-10-15

"Staying relevant: Adopting trusted strategies for resource management." Presentation at the Central New York Science Librarians Meeting, SUNY ESF, Syracuse, October 17, 2008.

"Balancing between Content Standards and Local Requirements for Scientific Metadata." Presentation at Cornell University Library, September 19, 2008. (http://metadata-wg.mannlib.cornell.edu/forum/index.php?date=2008-09-19)

"Folksonomies and Taxonomies: Where the Two Can Meet." Presentation at the New Dimensions in Knowledge Organization Systems: A Joint NKOS/CENDI Workshop, Washington, DC, September 11, 2008. (http://nkos.slis.kent.edu/2008workshop/JianQin.pdf)

"Educational metadata and ontology development." Presentation at Department of Library and Information Science, Universidad Carlos III de Madrid-España, May 5-16, 2008.

"Developing ontologies for information representation and access." Invited presentation at KLA/KSMA Conference Louisville, Kentucky, September 21, 2007.

Asia:

"Data Science and What It Means to Library and Information Science." Invited lecture at the iSpeaker Series, Sungkyunkwan University, Seoul, Korea, December 8, 2015.

"Managing Research Data." Invited lecture at the Library of Sungkyunkwan University, Seoul, Korea, December 10, 2015.

"Transforming Data to Knowledge: Challenges and Opportunities at the Conjunction of Data Science and Libraries." Invited presentation at the National Science and Technology Library / the Library of Chinese Academy of Science, Beijing, China, November 2, 2015.

"Research Lifecycle, Data Lifecycle, and Data Infrastructure Services." Keynote at the Academic Libraries Directors Meeting, Yi-Lan University, Yi-Lan, Taiwan, May 15, 2014.

"Research Lifecycle, Data Lifecycle, and Data Infrastructure Services." Invited lecture at the China National Library of Science, Beijing, Mainland China, June 26, 2013.

"Data Infrastructure Services and Data Librarians: What Can You Do and Contribute?" Invited presentation at the Advanced Seminar for Digital Libraries, Shenzhen, Mainland China, June 5-7, 2013.

"Data Management Requirements and Modeling." Invited tutorial at the Advanced Seminar for Digital Libraries, Shenzhen, Mainland China, June 5-7, 2013.

"Data Services: What It Means and How to Do It." A presentation given at:
- Xiamen University Library, Xiamen, Mainland China, June 8, 2012
- Wuhan University Library, Wuhan, Mainland China, June 12, 2012

"Developing Data Services to Support eResearch" (half day). A tutorial presented at:
- Library of the Chinese Academy of Science, Beijing, Mainland China, October 25, 2011.
- Beijing University Library, Mainland China, October 26, 2011.
- Wuhan University Library, Mainland, China, December 18, 2011.

"Linking Data." Presentation at the Shanghai Library Science Association, Shanghai, Mainland China, June 25, 2011.

"Promoting Scholarly Communication: How to Kick off an SC project?" Presentation at the Chinese Academic Libraries Forum and the Advanced Digital Library Seminar, Chengdu, Sichuan, Mainland China, June 22-24, 2011.

"eScience and Innovative Library Services." Presentation at the Chinese Academic Libraries Forum and the Advanced Digital Library Seminar, June 22-24, 2011, Chengdu, Sichuan, Mainland China.

"Research in library and information science in Western countries." Keynote at the Annual Conference of Shanghai Library Science Association, Shanghai, Mainland China, December 23, 2009.

"Developing an OWL-encoded conceptual model." Presentation at the Library of Chinese Academy of Sciences, Beijing, Mainland China, March 10, 2009.

"Social semantics and controlled semantics." Presentation at the National Library of China, Beijing, Mainland China, December 19, 2008.

"E-Science/E-Research: Challenges and opportunities for academic libraries." Presentation at:
- Renmin University of China, Beijing, December 19, 2008
- Advanced Digital Library Seminar, Shanghai Jiaotong University, Shanghai, Mainland China, December 16, 2008

"The impact of digital technology on library technical services and skills required for technical services librarians." Presentation at Advanced Digital Library Seminar, Shanghai Jiaotong University, Shanghai, Mainland China, December 16, 2008

"XML applications in digital libraries." A three-day lecture given at the Joint Advanced Seminar for Digital Libraries co-organized by iSchool Syracuse University and National Library of Science Chinese Academy of Science, Shanghai, Mainland China, May 26-28, 2008.

"Digital library technologies and development in the U.S." Presentation at the Advanced Workshop for Digital Libraries, Guilin, Guangxi, Mainland China, August 13-16, 2007.

"Design of ontologies." Presentation at the Advanced Workshop for Digital Libraries, Guilin, Guangxi, Mainland China, August 13-16, 2007.

"Extracting vocabularies from query logs." Presentation at the Advanced Workshop for Digital Libraries, Guilin, Guangxi, Mainland China, August 13-16, 2007.

"An overview of recent developments in digital library practices and technologies in the United States." Presentation given at the Open Forum for Digital Libraries, co-organized by Shanghai Library and National Library of Science Chinese Academy of Science, May 28, 2007, Shanghai, Mainland China.

"Overview of digital asset management." Presentation given at Shanghai Library for the Shanghai Library Association, Shanghai, Mainland China, June 30, 2006.

"Using knowledge organization systems to support searching in indexing databases." Presentation at Shanghai Library for the Shanghai Library Association, Shanghai, Mainland China, June 23, 2006.

"Ontology development and implementation." Presentation given at Zhejiang Provincial Library for the Zhejiang Library Association, Hangzhou, Mainland China, June 16, 2006.

"Ontology development and implementation." A three-day lecture given at the Library of Chinese Academy of Science, Beijing, Mainland China, May 22-24, 2006.

"Using knowledge organization systems to support searching in indexing databases. Presentation at the Shanxi Agriculture Academy, Taiyuan, Mainland China, May 19, 2006.

"Building a Semantic Network for Information Retrieval; Semantic Web and Ontologies."
Presentations at:
a. China Academic Library and Information System (CALIS) (July 4-8, 2005),
b. Tsinghua University Library (June 24, 2005),
c. the Library of Chinese Academy of Science (June 25, 2005),
d. Library Associations of Zhejiang Province, Jiangsu Province, and Shanghai (June 30-July 1, 2005), and
e. Xiamen University Library (July 3-8, 2005)

"Metadata and the organization and management of scientific data and information"; "The role of academic libraries in building digital learning resources"; "Semantic Web and ontologies."
Presentations at
a. The Advanced Seminar for Digital Library Research and Development, Shenzhen University Town, Shenzhen, Mainland China, June 23-25, 2004;
b. The Third Advanced Seminar for Network Information and Technology Development, Beijing Document Services, Beijing, Mainland China, June 28-29, 2004; and
c. Wuhan University Library, Wuhan, Mainland China, July 1-2, 2004:

"Introduction to Semantic Web standards, technologies, and applications. " A one-day workshop at Beijing University Library, Mainland China, December 20, 2003.

"Introduction to Semantic Web standards, technologies, and applications. " A half-day seminar at Tsinghua University Library, Mainland China, December 22, 2003.

"Introduction to Semantic Web standards, technologies, and applications. " A half-day seminar given at Shanghai Jiaotong University Library, Mainland China, January 2, 2004.

"Knowledge management and technology: Challenges and opportunities for libraries." Presentation at *Symposium of Knowledge Management*, Beijing, Mainland China, May 20, 2002. Sponsored by Chinese Academy of Science Library and Information Center.

"Introduction to eXtensible Markup Language (XML)." A tutorial at the *Second Advanced Seminar for Network and information Technology 2000,* sponsored by Beijing Document Service, Beijing, Mainland China.

"Technology and Standards for Information Resource Sharing." A three-day seminar at the Second Summer Workshop for Advanced Librarianship, Sichuan University, Chengdu, Mainland China, July 19-22, 1999.

SERVICES

Institutional Committees and Services

Syracuse University:

- Presentation on Open Access Publishing at the Graduate School Panel, February 16, 2011

School of Information Studies, Syracuse University:

- Curriculum Committee, member, 2003-2004, spring 2010
- Distance Education Committee, 2002-2003, 2006-2007
- Faculty Advisor for IST SLA Student Chapter, 2001-2006
- Financial Aid Committee, IST, member, 1999-2000
- Personnel Committee, Chair, 2010-2011; member, 2001-2002, 2011-2012
- Ph.D. Committee, 2006-2008, 2013-2014
- Search Committee, Chair, 2010 spring
- Search Committee, Chair for MLS Search, 2000-2001
- Search Committee, 2006-2007, 2010 spring
- Search Committee for GEM project specialist and cataloger, member, 1999-2003
- Technology and Web Committee, 2004-2005.

School of Library and Information Science, University of Southern Mississippi:
- Student Activities Committee, Chair, 1997-1999
- Search Committees for Director and Assistant Professor Positions, member, 1996-1999.
- Designer and master of the web site at School of Library and Information Science, 1998-1999

Professional Services

Editorial Board
- *Modern Library and Information Technology,* member, 2003-present (Published by the Chinese Academy of Science Library and Information Center)
- *Chinese Journal of Library and Information Science,* 2007-present (Published by the Chinese Academy of Science Library and Information Center)
- *Information Research: An International Electronic Journal* (http://informationr.net/ir/), member, 1999-2003

Committees

Dublin Core Metadata Initiative (DCMI)
- Advisory Board, member, 2010-
- DC-Science and Metadata Community, co-leader, 2010-

American Society for Information Science and Technology
- Best Information Science Book Award Jury Committee, Chair, 2003
- Awards and Honors Committee, member, 2002
- ISI/ASIS&T Citation Research Grant Jury Committee, member, 1999-2001
- SIG/Scientific and Technology Information, Coordinator of Student Award, 1999-; Chair-elect, 2004-2005, Chair, 2005-2006
- Standards Committee, member, 2006-2007

<u>Special Libraries Association</u>
- Committee on Cataloging, Chair, 2002-2003; member, 2001-2003
- Upstate New York Chapter Advisory Board, member, 2001-2003

Workshops Organized and Presented

"Metadata Modeling and Knowledge Representation for Research Data." A Dublin Core Regional Workshop at the International Conference for Asian Digital Librarries, Tsukuba, Japan, December 9, 2016. Co-organizers: Jian Qin, Marcia Zeng, Shegeo Sugimoto, Xia Lin, and Atsuyuki Morishima.

"Building capabilities for sustainable research data management practices: A workshop at the Association for Information Science and Technology Annual Meeting, October 15, 2016, Copenhagen, Denmark. Co-organizers: Jian Qin, Kevin Crowston, Liz Lyon.

National Science and Technology Library / SU iSchool Workshop on Scientific Data Services and Practices.
- November 2-6, 2015, Beijing, China
- May 23-27, 2016, Beijing, China

Building capabilities for sustainable research data management practices: A workshop for the Research Data Access and Preservation Summit, March 26-28, 2014, San Diego, CA. Co-organizers: K. Crowston & J. Qin.

CAMP (Cyberinfrastructure and Metadata Protocols)-4-DATA: A DCMI-Science and Data (SAM) Workshop. Co-Organizers: J. Greenberg, A. Ball, K. Jeffery, R. Koskela, J. Qin. Dublin Core International Conference (DC-2013), September 2-6, 2013, Lisbon, Portugal.

Data Science and Analytics: What Is in It for iSchools? Co-organized by Jian Qin and Kevin Crowston. iConference 2012, Toronto, Canada, February 7-10, 2012.

A DC-SAM Workshop: Research and Best Practices in Linking Scientific Metadata. Co-organized by Jian Qin, Jane Greenberg, and Norman Gray. *The International Conference on Theory and Practice of Digital Libraries, September 26-28, 2011*. http://eslib.ischool.syr.edu/SAM/ (accepted but we decided to cancel it due to low number of submissions)

New Dimensions in Knowledge Organization Systems: A Joint NKOS/CENDI Workshop, The World Bank, Washington, DC, September 11, 2008 http://cendievents.infointl.com/kos_workshop_091108/

Joint Advanced Seminar for Digital Libraries co-organized by National Library of Science Chinese Academy of Science and Syracuse University School of Information Studies
May 18-30, 2008, Shanghai
May 15-27, 2007, Shanghai

May 15-26, 2006, Beijing
May 16-27, 2005, Beijing

Advanced Digital Library Seminar, Program Committee member
June 23-25, 2004, Shenzhen
July 74-8, 2005, Xiamen
August 13-17, 2007, Guilin
December 16-18, 2008, Shanghai
July 8-11, 2009, Wuhan
July 21-23, 2010, Haerbin
June 23-25, 2011, Chengdu
June 5-7, 2013, Shenzhen

Reviews
Review panels:
- US Department of Defense (DOD) National Defense Science and Engineering Graduate Fellowship Program Panel Evaluation, February 2011.
- US Department of Energy (DOE) panel reviewing the overall effectiveness, technical capabilities, and mission relevance of the Office of Scientific and Technical Information (OSTI), September 2009

Journal article reviews:
- BMC Complementary and Alternative Medicine (BMC = BioMed Central)
- Electronics and Telecommunications Research Institute (ETRI) Journal (Korea)
- Information Processing and Management
- Information Research (UK)
- Journal of the American Society for Information Science and Technology
- Journal of Information Science
- Journal of Systems and Software
- New Review of Hypermedia and Multimedia (UK)
- Scientometrics

Research Grant Proposal and Fellowship Reviews:
- Austrian Science Fund
- Indo-US Science and Technology Forum (IUSSTF)
- National Science Foundation, Directorate for Social, Behavioral & Economic Sciences
- National Science Foundation, Directorate of Earth Sciences, Geoinformatics Program
- National Science Foundation International Fellowship Program
- Singapore National Institute for Education

Review for book publisher:
Springer

Conference Reviews:
- ASIST Annual Conference, 1999-
- Dublin Core Conference 2003, 2005, 2008-
- I-Conference, 2007-

- The Seventh International Conference on Digital Libraries

Panels Organized and Moderated

Research Data Access and Preservation Summit, New Orleans, LA, March 22-23, 2012: "Teaching and training for research data informaticians."

ASIST Annual Meeting 2006: "Access to Scientific Data: Challenges and Strategies."

ASIST Annual Meeting 2006: "The Metadata Research Landscape."

ASIST Annual Meeting 2005: "Managing Scientific Data and Information: A Technical Discussion."

ASIST Annual Meeting 2004: "Metadata and Standards." (Paper session moderator)

ASIST Annual Meeting 2002: "Deeper Representation of Digital Information: from Metadata to Semantic Data."

ASIS&T Annual Meeting 2000: "Conquering the Babel: Cross-Lingual Information Retrieval."

ASIS Annual Meeting 1999: "The Metadata Architecture: Issues, Problems, and Future Research."

ASIS Annual Meeting 1999: "Discovering Knowledge Networks: from Document Representation to Content Linkages."

Organizer and moderator of a panel proposal accepted by ASIS Mid-Year 1999. "Access to Scholarly Information via Professional Societies' Web Sites: Content, Means, and Uses." (Withdrawn due to conflicting schedules)

ASIS Annual Meeting 1997 "Multilingual Databases in the Networking Age: Strategies for Connecting Producers and Users."

MEMBERSHIPS

American Association for the Advancement of Science
American Society for Information Science and Technology