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School of Information Studies  
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## Curriculum Vitae

(Updated 8/24/2007)

### 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:

Associate Professor, Syracuse University, 2005-present

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 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, 2001-2005

#### 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

Knowledge organization systems, ontology, schema representation of information, metadata, semantic patterns in indexing databases, and scientific communication

## TEACHING RESPONSIBILITIES

IST459 Introduction to Database Management Systems  
IST558 Technologies for Web Content Management  
IST616 Information Resources: Organization and Access  
IST659 Data Administration Concepts and Database Management  
IST676 Digital Libraries  
IST731 Knowledge Organization Structures  
IST681 Metadata

Other courses taught at the University of Southern Mississippi:

LIS505 Introduction to Cataloging and Classification  
LIS506 Advanced Cataloging and Classification  
LIS655 Technical Services  
LIS653 Indexing and Abstracting  
LIS558 Internet Resources and Applications

## RESEARCH

- Qin, J. (PI) & Small, R. (co-PI) (2007, pending). 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). 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 Chapters

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

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

- Qin, J., Creticos, P. & Hsiao, W. (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.
- 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.
- 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.
- 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.

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

### Non-Refereed Journal Articles

- Lin, X. & J. Qin. (2002). Converging knowledge structures in a repository. *Library and Information Services*, No. 10: 5-13.
- 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. (2000). Representation and organization of information in the Web space: from MARC to XML. *Informing Science*, 3(2): 83-88 (<http://inform.nu/>).
- 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)

### Conference Papers

- 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: *19<sup>th</sup> 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)

### Conference Presentations

- 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. & Sharif, R. (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.

### **Report:**

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://www.oclc.org/research/publications/arr/1998/qin/computational.abstract\\_contents.htm](http://www.oclc.org/research/publications/arr/1998/qin/computational.abstract_contents.htm)

### **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.

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

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

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

Qin, J. (2007). Extracting vocabularies from query logs. Presentation at the Advanced Workshop for Digital Libraries, Guilin, Guangxi, 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, China.

XML applications in digital libraries. Lecture given at the Joint Workshop for Digital Libraries co-organized by iSchool Syracuse University and National Library of Science Chinese Academy of Science, May 23-35, 2006, Shanghai, China.

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

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

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

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

Building a Semantic Network for Information Retrieval; Semantic Web and Ontologies. Presentations given at:

- China Academic Library and Information System (CALIS) (July 4-8, 2005),
- Tsinghua University Library (June 24, 2005),
- the Library of Chinese Academy of Science (June 25, 2005),
- Library Associations of Zhejiang Province, Jiangsu Province, and Shanghai (June 30-July 1, 2005), and
- 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 given at

- the Advanced Seminar for Digital Library Research and Development, Shenzhen University Town, Shenzhen, China, June 23-25, 2004;
- the Third Advanced Seminar for Network Information and Technology Development, Beijing Document Services, Beijing, China, June 28-29, 2004; and
- Wuhan University Library, Wuhan, China, July 1-2, 2004:

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

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

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

Knowledge Management and Technology: Challenges and Opportunities for Libraries. *Symposium of Knowledge Management*, Beijing, China, May 20, 2002. Sponsored by Chinese Academy of Science Library and Information Center.

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

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

## SERVICES

### Institutional Committees and Services

#### School of Information Studies, Syracuse University:

Search Committees, Ph.D. Committee, Distance Education Committee, 2006-2007

Technology and Web Committee, 2004-2005.

Curriculum Committee, member, 2003-2004

Distance Education Committee, member, 2002-2003

Personnel Committee, member, 2001-2002

Search Committee, Coordinator for MLS Search, 2000-2001

Faculty Advisor for IST SLA Student Chapter, 2001-

Financial Aid Committee, IST, member, 1999-2000

Search Committee for GEM project specialist and cataloger, member, 1999-2003

#### 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

*Information Research: An International Electronic Journal*

<http://www.shef.ac.uk/~is/publications/infres/ircont.html>, member, 1999-

*Modern Library and Information Technology*, member, 2003- (Published by the Chinese Academy of Science Library and Information Center)

#### Reviews

##### 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 Systems and Software

New Review of Hypermedia and Multimedia

##### Research Proposal Reviews:

Austrian Science Fund

National Science Foundation International Fellowship Program

Singapore National Institute for Education

Review for book publisher:  
Springer

Conference Program Committees:  
DC2003  
The Seventh International Conference on Digital Libraries  
ASIST Annual Conference

## **Committees**

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

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

## **Panels Organized and Moderated**

Organizer for ASIST Annual Meeting 2006: "Access to Scientific Data: Challenges and Strategies."  
Organizer for ASIST Annual Meeting 2006: "The Metadata Research Landscape."  
Organizer and Moderator for the ASIST Annual Meeting 2005: "Managing Scientific Data and Information: A Technical Discussion."  
Moderator for the ASIST Annual Meeting 2004: "Metadata and Standards." (Paper session)  
Organizer and Moderator for the ASIST Annual Meeting 2002: "Deeper Representation of Digital Information: from Metadata to Semantic Data."  
Organizer and Moderator for the ASIS&T Annual Meeting 2000: "Conquering the Babel: Cross-Lingual Information Retrieval."  
Organizer of a panel for the ASIS Annual Meeting 1999: "The Metadata Architecture: Issues, Problems, and Future Research."  
Organizer of a panel for 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)  
Organizer of a panel for the ASIS Annual Meeting 1997 "Multilingual Databases in the Networking Age: Strategies for Connecting Producers and Users."

## **MEMBERSHIPS**

American Society for Information Science and Technology  
Special Library Association