

**GEOFFREY Z. LIU**

Associate Professor  
School of Library & Information Science, San Jose State University

**Education**

- 1989 - 1994 Ph.D. in Information Science, Interdisciplinary Doctoral Program in CIS, University of Hawaii at Manoa.  
1983 - 1986 M.A. SLIS, Wuhan University.  
1979 - 1983 B.A. SLIS, Wuhan University.

**Academic/Professional Experience**

- 2001- Associate Professor. SLIS, San Jose State University.  
1995-2001 Assistant Professor. SLIS, San Jose State University.  
1994-1995 Research Statistician. Hawaii Dept. of Health & Human Services.  
1993-1994 Cataloging Librarian. Meader Library, Hawaii Pacific University.  
1993-1994 Lecturer. SLIS, University of Hawaii at Manoa.  
1989 Visiting Scholar. SLIS, University of Hawaii at Manoa; Sponsored by the Yale-China Association.  
1986-1989 Lecturer. Department of LIS, Central-China (Huazhong) Normal University, Wuhan, China.

**Teaching**Areas of special interest

- Information storage and retrieval
- Research methods
- C/C++/Java programming
- Database management

Courses taught

- LIBR202 Introduction to Information Retrieval (1998-2011, Spring and Fall)  
LIBR242 Database Management with Oracle (1999-2011, Spring)  
LIBR246 Data, Text, and Web Mining (2007, Fall; 2011, Fall)  
LIBR246 Library Developments in China (2005, Summer)  
LIBR246 Seminar on Digital Image Indexing and Retrieval (1997, Fall)  
LIBR248 Introduction to Cataloguing & Classification (1996-2002, Spring and Summer)  
LIBR252a Programming in Java (I) (1996-2006, Spring)  
LIBR252b Programming in Java (II) (1996-2005, Fall)  
LIBR253 Natural Language Processing & Automatic Indexing (1997, Spring)  
LIBR281 Seminar in IT-Related Communication Issues (1997, Spring)  
LIBR285 Research Methods in LIS (1995-2011, Spring and Fall)

## Graduate students supervised

### *Doctoral Dissertation*

- Anderson, Laura. Candidacy confirmed. SJSU associate supervisor
- Sarraf, Nilo. Toward Stage 2. SJSU associate supervisor

### *Master theses*

- Thorman Collin. (2011). Use of Web 2.0 Technology in Archives. (Proposal development, Chairing)
- Hufton, Jeremy. (2011). A quantitative Study of Footnote Density in U.S. Law Journals since 1980. (LIBR298 Proposal development, Chairing)
- Trapido, Irina. (2011, Spring). Faceted library catalog interfaces in academic libraries: Supporting different user communities. (Proposal development)
- Onnagawa, Mie. (2008, Fall). Japanese monographs cataloging and its compatibility with LC CJK authority files. (Proposal development)
- Lukasiewicz, Adrianna. (2008, Spring). Students' preference of telephone and chat reference services. (Proposal development)
- Kowalczyk, Bridget. (2006, Spring). An online staff training tutorial plan for key service points in the Dr. martin Luther King, Jr. Library. (Chaired)
- Ngo, Lisa. (2006, Spring). A study of natural language versus Boolean searching for broad queries. (Chaired)
- Pignuolo, Loren. (2005, Fall). The research value of photographic negatives. (Chaired)
- Staley, Shannon. (2005, Fall). Academic subject guides: A case study of use at San Jose State University. (Chaired)
- Gilbert, Mona. (2004, Spring). Rhythm & tales: integrating musical elements with literacy for children (K-1).
- Erwine, LeeAnn. (2004, Spring). A data file-driven online repository directory for the Society of California Archivists.
- Dvorniks, Debra (2003, Fall). Use of digital libraries: A survey study. (Chaired)

### *Special Studies*

1995- Supervised more than ten special studies.

LIBR289 e-Portfolio Advising

2007- Reviewing and grading LIBR289 e-Portfolios each term, averaging about 15.

### *Academic Advising*

1995- Academic advisor for numerous students each term, averaging about 90.

## **Scholarly/Professional Activities**

Research or equivalent grants and contracts (proposed/funded)

- 2008 Group decision making in distributed collaborative learning: A field experiment (SJSU pair grant). (Proposed)
- 2008 Assessment of Internet resources on sports and physical exercises (Social Science Higher Education Research Grant of Tianjin). Co-PI with Yan Huo (PE Dept., Nankai University). (Funded)
- 2007 Concept drifting in interactive information retrieval: An exploratory research (SJSU mini grant). Co-PI with J. Weedman. (Proposed)
- 2003 Book bags for better reading (NSF research grant). Co-PI with B. Woolls. (Proposed)
- 2001 Natural language IR interface for K-12 children (NSF research grant). PI with J. Weedman and L. Main. (Proposed)
- 2000 Computer simulation study of communications formation in a virtual environment. SLIS Summer Research Grant. (Funded).
- 1996 Heuristic syntax parsing for information retrieval. SJSU Summer Grant. (Funded).

Invited presentations

- 2010 Events-based semantic-relation indexing of historical newspaper full texts and its potential use for socio-historical research. Keynote presentation at the International Symposium on the Cooperation among Libraries for East Asian Resources and Chinese Newspaper Digitization, October 25-27, 2010. Changsha, Hunan, P. R. China.
- 2009 Web 2.0 and its impacts on libraries. School of Information Management, Wuhan University, China. November 18,
- 2008 Chinese school libraries serving rural communities: The Evergreen project. Presentation on the panel "Creating Community Partners" at the 110th CLA Annual Conference and Exhibition, November 14-16, 2008.
- 2008 Information systems technology to enhance collaboration. Presentation at the CASA Collaborative Response Conference: Victims of Crime, September 25, 2008.
- 2008 Experts panel: Troubleshooting collaborations. The CASA Collaborative Response Conference: Victims of Crime, September 25, 2008.
- 2006 Current development of digital libraries. Presentation at Yunan Provincial Library, Kunming, China.
- 2006 Digital libraries and virtual reference services. Presentation at Zhongshan University and South-China Normal University, Guangzhou, China.
- 2005 Virtual reference technology and service in modern libraries. Presentation at Yunnan Provincial Library, Kunming, China.
- 2001 Current situation of school library automation in America. Hua Xia Library Automation System Training Workshop in Changzhou, China.
- 2000 Developments and emerging trends of IR technologies. Workshop presentation at the Systems & Automation Department, Beijing National Library.
- 2000 Parallel computing and large-scale information retrieval. Presentation at the National Internet & Information Technologies Conference, July 31- August 4, Beijing, China.
- 2000 Virtual communities & eCommerce. Presentation at the National Internet & Information Technologies Conference, July 31- August 4, Beijing, China.
- 2000 Scalability and infrastructure of digital library systems. Workshop presentation at

- Sichuan University, Chengdu, P.R. China, July 16-20. Sponsored by the United Board for Christian Higher Education in Asia.
- 1998 Information retrieval on the Internet. Workshop presentation at the East-China Normal University Library, Shanghai, China.
- 1998 Digital image retrieval. Workshop presentation at Xiamen University, China.
- 1995 The semantic vector space model. Friday seminar presentation at the School of Library and Information Science, University of California at Berkeley.

#### Conference participation

- 2011 ASIST Annual Meeting, New Orleans.
- 2010 ALISE Annual Conference. Boston, MA.
- 2009 ALISE Annual Conference. Denver, CO.
- 2008 CASA Collaborative Response Conference: Victims of Crime. San Jose, CA.
- 2008 CLA 110th Annual Conference and Exhibition. San Jose, CA.
- 2004 ASIS&T Annual Conference. Providence, RI
- 2004 Search Engine Conference, The Hague, Netherland
- 2003 ASIS&T Annual Conference. Long Beach, CA
- 2002 ASIS&T Annual Conference. Philadelphia, PA
- 2002 Search Engine Conference. San Francisco, CA
- 2000 Search Engine Conference. Boston, MA
- 1999 ASIS&T Annual Conference. Washington, DC
- 1998 Search Engine Conference. Boston, MA

#### Other presentations/workshops

- 2006 School libraries serving rural communities: The Evergreen Model. SJSU/SLIS Tuesday Noontime Colloquia.
- 2006 Cultural perspectives on the ethics of scholarly presentations. Panel discussion at the ITIE2006 Conference, Kunming, China.
- 2006 Workshop on Chinese Standard GB7714-2005 on citation and references in scholarly communication. International Conference: Knowledge and Ethics (ITIE2006), June 19-21, 2006, Kunming, P.R. China.
- 2003 Issues in reform of K-12 education. Workshop presentation in Gansu, P.R. China. Sponsored by the Evergreen Education Foundation.
- 2002 Information literacy in K-12 education. Workshop presentation in Xining, Qinghai, and Yancheng, Jiangsu. Sponsored by the Evergreen Education Foundation.
- 1997 Historical relationship between Tibet and China. Presentation at the China Studies Seminar sponsored by Hua Kuang Chinese Library.

#### **Community/Professional Service (list organization, then position, years)**

##### Association offices held

- 1999 -2011 Faculty co-sponsor of the San Francisco Bay Area Student Chapter of ASIS&T

Association committee activity

1998 Served on the 1998 *ASIS* Best Information Science Book Committee.

Editorship

2004- Serving on the Editorial Board of *Document, Information & Knowledge*, a Chinese journal published by SIM, Wuhan University, China.

Reviewer (journal, conference, grant agency)

- 2011 MERLOT *Journal of Online Learning and Teaching*
- 2011 *American Education Research Journal*. Section on Teaching, Learning, and Human Development
- 2010 *International Journal of Computer-Supported Collaborative Learning*
- 2010 The 2011 ACM SIGCHI Conference
- 2010 *Journal of American Society for Information Science & Technology*
- 2010 MERLOT *Journal of Online Learning and Teaching*
- 2009 The 2009 ASIST Annual Meeting Conference
- 2006 *IEEE Transactions on Knowledge and Data Engineering*
- 2004 The Informing Science + IT Education Joint Conference (<http://InSITE.nu>)
- 2003 *Web Intelligence and Agent Systems (WIAS), an International Journal*
- 2003 *Journal of Computer-Mediated Communication*
- 2002 *Journal of Computer-Mediated Communication*
- 2001 *Journal of Computer-Mediated Communication*
- 2001 The IS2002 Conference
- 2000 The 2000 ASIS Mid-Year Conference
- 1998 *Information Processing Letters*
- 1996 The 1996 ASIS Mid-Year Conference
- 1995 *Journal of Management Information Systems*

External examiner

- 2010 Tucker, Virginia. Panel member for doctoral candidature confirmation. QUT Gateway Doctoral Program.
- 2009 Stenstrom, Cheryl. External reviewer of stage 2 proposal. QUT Gateway Doctoral Program
- 2009 Harlan, Mary Ann. Panel member for doctoral candidature confirmation. QUT Gateway Doctoral Program.
- 2002 Palani, S. (Ph.D Thesis). Expert system for Indian pharmaceutical drugs. University of Madras, Chennai, India.

Consulting

- 2005- Yunnan Provincial Library, Kunming, China. Expert advisor.
- 2004- East Asia Library, Stanford University. Technology consultant.

- 1999 Kendara, Inc. (an Internet startup company based in Palo Alto). Consulting service in designing and implementing the initial version of its web-based IR system.
- 1997 The Hua Kuang Library in Palo Alto. Consulting service for its automation project.

#### Other service to the community

- 2009 Organizing the Yunnan Provincial Library's Centennial Anniversary International Conference. November 16-18, Kunming, China.
- 2006 Organizing the ITIE2006 "Information Technology in Education: Ethics and Knowledge" Conference. June 19-21, Kunming, China.
- 2004 Organizing the ITIE2004 "Information Technology in Education: Learning from Different Cultures" Conference. July 19-21, Beijing, China.
- 2001- The Library Program Chair and member of the Advisory Board, Evergreen Education Foundation, a non-profit organization in San Francisco Bay Area dedicated to advancing the development of school libraries in underdeveloped regions in China.

### **University Service**

#### School Committees/Service

- 2010-11 Director search and faculty hiring committees
- 2009 Teacher Librarian Credential program and LIBR295 coordinator
- 2008- Cohort group coordinator of the SJSU/QUT Gateway Doctoral Program
- 2008-2009 LIBR285/LIBR299 course cluster coordinator
- 2006-2008 LIBR299 Thesis Course Coordinator
- 2005- Student Admissions and Adjudication Committee. Chairing 2005-2007.
- 2005-2007 Recruitment Committee
- 2001- Department Level RTP Committee
- 2000-2001 Scholarship Committee and Curriculum Committee (chair)
- 1999 Acting graduate advisor/program coordinator
- 1998 Coordinator of the course LIBR289, Culminating Experience, SJSU/SLIS
- 1996-1999 Scholarships Committee
- 1996 Faculty supervisor for the Multi-Ethnic Recruitment Scholarship Program
- 1996-1999 Admission Committee
- 1996-1998 Curriculum Committee
- 1995-2003 Technology Committee
- 1995-2006 LIBR285 Research Methods Course Coordinator

#### College Committees/Service

- 2011-2012 CASA Research and Faculty Development Committee
- 2010-2011 CASA Committee to Enhance Equity and Diversity
- 2009-2010 CASA Research and Faculty Development Committee
- 2007-2008 CASA Committee to Enhance Equity and Diversity
- 2005-2006 CASA Research and Faculty Development Committee.
- 1997 College Committee for CSU Research, Scholarly & Creative Activity Awards.

### University Committees/Service

- 2007-            Student Evaluation Review Board of the Senate (SERB). Chairing Sept. 2009-Feb 2011.
- 2007-2011      Served on the SJSU Faculty Hearing Panel
- 2001-2003      Serving on the University Information Technology Board
- 1997-2000      Served on the University Academic Senate's Information Systems and Computing Advisory Board.
- 1997-1998      Served as alternative representative to the Communication and Information Forum, SJSU.
- 1996-1998      Served on the University's Faculty Mentor Program
- 1996            Served on the review panel for the SJSU Grant Development Program.

### **Special Accomplishments and Recognition not included above**

- 2004    The Evergreen Education Foundation won the Bill & Melinda Gates Foundation's "Access to Learning" Award for its outstanding work in rural China.

### **Publications**

#### Conference Papers

- Liu, G., & Chong, S. (2011). [Metacognition & conceptual drifting in interactive information retrieval: An exploratory field study](#). In *Proceedings of the 74<sup>th</sup> ASIS&T Annual Meeting*, vol. 48. October 3-12, 2011. New Orleans, LA. (Refereed)
- Liu, G. (2010). Events-relation (E-R) indexing of newspapers for socio-historical research. *Proceedings of the International Symposium on the Cooperation among Libraries for East Asian Resources and Chinese Newspaper Digitization* (pp. 14-23), October 25-27, 2010. Changsha, China.
- Liu, G. (2002). Automatic relevance learning in web-based information retrieval. *Proceedings of the International Conference on Digital Library: IT opportunities and challenges in the New Millennium* (pp.141-158). Beijing: The Beijing Library Press. (Refereed)
- Liu, G. (1994). The Semantic Vector Space Model: a text representation and searching technique. *Proceedings of the 27th Hawaii International Conference of Systems Sciences (HICSS)*, Vol. IV, p. 928-937. (Refereed)

#### Journal Articles

- Liu, G. (2010). [Spontaneous group decision making in distributed collaborative learning: Toward a new research direction](#). *MERLOT Journal of Online Learning and Teaching*, 6(1), 279-296. (Refereed)
- Liu, G. (2008). School libraries serving rural communities in China: The Evergreen model. *School Libraries Worldwide*, 14(1), 56-71. (Refereed)
- Liu, G. & Zhang, W. (2008). School library support of health education in China: A preliminary study. [The International Electronic Journal of Health Education](#),

[11:13-31](#). (Refereed)

- Liu, G. (2007). Digital library developments: A comparative analysis (in Chinese). *Journal of Library in Yunnan*, 105, 34-40.
- Liu, G. (2005). Virtual reference technology and service in modern libraries (in Chinese). *Journal of Library in Yunnan*, 97, 2-6.
- Liu, G. (1999). Virtual community presence in Internet Relay Chatting. *Journal of Computer-Mediated Communication*, 5(1). (Refereed)
- Liu, G. (1997). The Semantic Vector Space Model: implementation and evaluation. *Journal of American Society for Information Science*, 48(5):395-417. (Refereed)
- Liu, G. (1996). Natural language processing and automatic indexing of texts: the semantic vector space model (in Chinese). *Journal of China Society for Scientific and Technological Information*, 15(6), 402-413. (Refereed)
- Liu, G. (1988). Cybernetic principles of information retrieval systems (in Chinese). *Journal of Information Sciences*, 14(11), 97-113.
- Liu, G. (1985). Crisis in Contemporary Studies of Bibliography in China (in Chinese). *Research of Library Science*, 6(5), 54-58.

#### Book Reviews

- Liu, G. (1998). Frants, V.I., Shapiro, J., & Voiskunskii, V.G. *Automated Information Retrieval : theory and methods*. San Diego, CA : Academic Press, 1997. *JASIS*, 49(10), 953-955.
- Liu, G. (1997). Chang, S.K. & Jungert, E. *Symbolic projection for image information retrieval and spatial reasoning*. London : Academic Press, 1996. *JASIS*, 48(10), 960-961.

#### Other Works

- Li, Y., & Liu, G. (Eds.) (2009). *Proceedings of Yunnan Provincial Library Centennial Anniversary International Conference*, Kunming, Yunnan, November 16-18, 2009. Kunming, Yunnan: Yunnan University Press.
- Liu, G. (2005). *Evergreen: bringing information resources to rural China*. Washington, D.C. : Council on Library and Information Resources (CLIR).