

## Overview

- Recognized expert in information retrieval (system design and information seeking behaviors), virtual communities, online collaborative learning, group decision making, research methods, and Chinese history of librarianship.
- Experienced speaker and published author.
- Effective advocate for information services in K–12 education and rural communities in developing countries.

## Education

**PhD, Communication and Information Sciences**  
**University of Hawai'i at Manoa, Honolulu, HI, 1994**

*Dissertation:* Experimental study of incorporating thematic role analysis into VSM-based text information representation and retrieval: Design and evaluation of the semantic vector space model. Advisor: Dr. Larry N. Osborne.

**MA, Library Science**  
**Wuhan University, China, 1986**

*Thesis:* Application of cybernetic principles in bibliographic control.

**BA, Library Science**  
**Wuhan University, China, 1983**

## Academic Experience

**Professor, School of Information**  
**San Jose State University, San Jose, CA. 2013-**

- Courses Taught: Information Retrieval; Database Management; Research Methods; Text/Data/Web Mining; C/C++/Java programming.

**Associate Professor, School of Library & Information Science**  
**San Jose State University, San Jose, CA. 2000–2013.**

**Assistant Professor, School of Library & Information Science**  
**San Jose State University, San Jose, CA. 1995–2000.**

**Lecturer, School of Library & Information Science**  
**University of Hawai'i at Manoa, Honolulu, HI. 1993–1994.**

- Course Taught: Information Storage and Retrieval.

**Visiting Scholar, School of Library & Information Science**  
**University of Hawai'i at Manoa, Honolulu, HI. 1989.**

- Sponsor: Yale-China Association

**Lecturer, Department of Library & Information Science**  
**Central-China Normal University, Wuhan, China. 1986–1989.**

- Course Taught: Chinese History of Bibliography.

## Professional Experience

**Research Statistician.**  
**State Department of Health & Human Services. 1994–1995.**

- Database programming and administration; Management of data collection;

Statistics computing.

#### **Cataloging Librarian.**

**Meader Library, Hawaii Pacific University, Honolulu, HI. 1993–1994.**

#### **Other Research & Consulting Experience**

Advisor, XML-DB database & web portal project, Beethoven Center, SJSU, Fall 2016-2017

Advisor, Yunnan Provincial Library, Kunming, China, 2005–2015.

Technology Consultant, Stanford East Asia Library, 2004–2012.

Consultant, Kendra, Inc. (a startup company in Palo Alto, CA), 1999.

#### **Publications**

##### **Books**

Li, Y., & Liu, G. (Eds.) (2009). *Proceedings of Yunnan Provincial Library Centennial Anniversary International Conference*. Kunming, Yunnan, China: Yunnan University Press.

Liu, G. (Ed.). (2006). *Proceedings of the ITIE2006: Information Technology in Education: Ethics and Knowledge*. Kunming, Yunnan, China: Yunnan Provincial Library.

Liu, G. (2005). *Evergreen: Bringing Information Resources to Rural China* (English and Chinese editions). Washington, D.C.: Council on Library and Information Resources (CLIR).

Liu, G. (Ed.). (2004). *Proceedings of ITIE2004: The Information Technology in Education Conference*. San Francisco, CA: Evergreen Education Foundation.

##### **Book Chapters**

Liu, G. (2010). Events-relation (E-R) indexing of newspapers for socio-historical research. In The Council on East Asian Librarians (Ed.). *Proceedings of the international symposium on the cooperation among libraries for east Asian resources and Chinese newspaper digitization* (pp. 14–23). Changsha, China: Hunan Green Apple Data Center.

Liu, G. (2002). Automatic relevance learning in web-based information retrieval. In Sun, J., Zhou, H, & Zhang, X. (Eds.), *Proceedings of the international conference on digital library: IT opportunities and challenges in the new millennium* (pp.141–158). Beijing: The Beijing Library Press.

Liu, G. (1994). The semantic vector space model: A text representation and searching technique. In J.F. Nunamaker & R.H. Sprague (Eds.), *Proceedings of the twenty-seventh Hawaii International Conference of Systems Sciences* (Volume 4, p. 928–937). Los Alamitos, CA: IEEE Computer Society.

##### **Peer-Reviewed Articles and Papers**

Wagstaff, K. & Liu, G. (2018). Automated classification to improve the efficiency of weeding library collections. *Journal of Academic Librarianship*, 44(2), 238-247.

Liu, G. (2013). Spontaneous group decision making in distributed collaborative learning: A quantitative exploratory study. *International Journal of Online Pedagogy and Course Design*, 3(2), 40-58.

Liu, G., & Huo, Y. (2012). Information behaviors of Chinese K-12 physical education teachers: A survey study. *Chinese Journal of Library and*

*Information Science* (in English), 5(1), 15–33.

- Liu, G. (2012). Distributed collaborative learning in online LIS education: A curricular analysis. *Issues in Information Science and Information Technology*, 9, 135–147.
- Liu, G., & Chong, S. (2011). Metacognition & conceptual drifting in interactive information retrieval: An exploratory field study. *Proceedings of the American Society for Information Science and Technology*, 48(1), 1–9. doi: 10.1002/meet.2011.14504801065.
- 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.
- Liu, G. (2008). School libraries serving rural communities in China: The Evergreen model. *School Libraries Worldwide*, 14(1), 56–71.
- 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.
- Liu, G. (1999). Virtual community presence in Internet Relay Chatting. *Journal of Computer-Mediated Communication*, 5(1). doi: 10.1111/j.1083-6101.1999.tb00334.x
- Liu, G. (1997). The Semantic Vector Space Model: implementation and evaluation. *Journal of American Society for Information Science*, 48(5), 395–417.
- 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.
- 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.

#### **Additional Articles and Papers**

- Liu, G. (2014). University libraries in China opening to the general public: An outsider's perspective. *Library Tribune* (in Chinese), 4, 1-4. (Invited)
- 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. (1998). *Automated information retrieval: Theory and methods* [Review of the book by V. I. Frants, J. Shapiro, & V.G. Voiskunskii]. *Journal of the American Society for Information Science (JASIS)*, 49(10), 953–955.
- Liu, G. (1997). *Symbolic projection for image retrieval and spatial reasoning* [Review of the book by S.K. Chang, & E. Jungert]. *Journal of the American Society for Information Science (JASIS)*, 48(10), 960–961.

#### **Additional Poster Sessions**

- Liu, G. (2011, November). *Metacognition & conceptual drifting in interactive information retrieval: An exploratory field study*. Poster session presented at the meeting of the American Society for Information Science & Technology (ASIS&T) Annual Meeting, New Orleans, LA.

## Presentations

### Conference Presentations

*Utilizing the repertory grid elicitation technique with cultural-historical activity theory.* (2017, August). Paper presented jointly by L. Anderson, C. Bruce, G.Z. Liu, K. Rebmann, & S. Dey at the ISCAR Conference, Quebec, Canada.

*Distributed collaborative learning in online LIS education.* (2012, June). Paper presented at the meeting of the Information Science + IT Education Conference (InSITE), Montreal, Canada.

*Events-based semantic-relation indexing of historical newspaper full texts and its potential use for socio-historical research.* (2010, October). Plenary keynote paper presented at the meeting of the International Symposium on the Cooperation among Libraries for East Asian Resources and Chinese Newspaper Digitization, Changsha, China.

*Chinese school libraries serving rural communities: The Evergreen project.* (2008, November). Paper presented at the meeting of the California Library Association (CLA) Annual Conference and Exhibition, San Jose, CA.

*Collaboration in services for victims of crime: Information system support.* (2008, September). Paper presented at the meeting of the College of Applied Sciences and Arts (CASA) Collaborative Response Conference: Victims of Crime, San Jose, CA.

*Cultural perspectives on the ethics of scholarly presentations.* (2006, June). Paper presented at the meeting of the International Conference: Knowledge and Ethics (ITIE2006), Kunming, China.

*Automatic reference learning in web-based information retrieval.* (2002, July). Paper presented at the meeting of the International Conference on Digital Library, Beijing, China.

*Parallel computing and large-scale information retrieval.* (2000, August). Paper presented at the meeting of The National Internet & Information Technologies Conference, Beijing, China.

*Virtual communities & e-Commerce.* (2000, August). Paper presented at the meeting of The National Internet & Information Technologies Conference, Beijing, China.

### Workshops

*Natural language processing and mining of Chinese text for research.* (June, 2017). Workshop as summer intensive for master and doctoral students. School of Information management, Central China Normal University, Wuhan, China.

*Chinese Standard GB7714-2005 on citation and references in scholarly communication.* (2006, June). Workshop presented at the meeting of the International Conference: Knowledge and Ethics (ITIE2006), Kunming, China.

*Methodology for studying use and users of digital libraries.* (2004, July). Workshop presented at the meeting of the Workshop on Digital Library Design and Implementation, Wuhan University, China.

*Issues in reform of K-12 education.* (2003, August). Workshop presented at the meeting of the Evergreen Education Foundation's Training Workshop, Gansu, China.

*Information literacy in K-12 education.* (2002, July). Workshop presented at the meeting of the Evergreen Education Foundation's Training Workshop, Xining, Qinghai, China.

*Information literacy in K-12 education.* (2002, July). Workshop presented at the meeting of the Evergreen Education Foundation's Training Workshop, Yancheng, Jiangsu, China.

*Scalability and infrastructure of digital library systems.* (2000, July). Workshop presented at the meeting of the United Board for Christian Higher Education in Asia, Sichuan University, Chengdu, China.

*Information retrieval on the Internet.* (1998, August). Workshop presented at the meeting of the Information Science & Technology Workshop, East-China Normal University Library, Shanghai, China.

*Digital image retrieval.* (1998, August). Workshop presented at the meeting of the Workshop on Emerging Trends in Library and Information Science, Xiamen University, Fujian, China.

*Historical relationship between Tibet and China.* (1997, March). Workshop presented at the meeting of the China Studies Seminar, Hua Kuang Chinese Library, Cupertino, CA.

### **Guest Lectures**

*Web 2.0 and its impacts on libraries.* (2009, November). Guest lecture presented at the meeting of the School of Information Management, Wuhan University, China.

*Current development of digital libraries.* (2006, August). Guest lecture presented at the meeting of the Yunnan Provincial Library, Kunming, China.

*Digital libraries and virtual reference services.* (2006, July). Guest lecture presented at the meeting of the Zhongshan University and South-China Normal University, Guangzhou, China.

*School libraries serving rural communities: The Evergreen Model.* (2006, October). Guest lecture presented at the meeting of Tuesday Noontime Colloquia, School of Library and Information Science (SLIS), San Jose State University, San Jose, CA.

*Virtual reference technology and service in modern libraries.* (2005, July). Guest lecture presented at the meeting of the Yunnan Provincial Library, Kunming, China.

*Current situation of school library automation in America.* (2001, July). Guest lecture presented at the meeting of the Hua Xia Library Automation System Training Workshop, Changzhou, China.

*Developments and emerging trends of IR technologies.* (2000, August). Guest lecture presented at the meeting of the Systems & Automation Department, National Library, Beijing, China.

*The semantic vector space model.* (1995, October). Guest lecture presented at the meeting of the Friday Seminar Series, School of Library and Information Science, University of California, Berkeley (UCB), Berkeley, CA.

### **Grants & Contracts**

Group decision making in distributed collaborative learning: A field experiment. (2008, Proposed). SJSU Pair Grant. Principal Investigator: Geoffrey Z. Liu.

Assessment of Internet resources on sports and physical exercises. (2008). Social Science Higher Education Research Grant of Tianjin. Co-Principal Investigators: Yan Huo & Geoffrey Z. Liu.

Concept drifting in interactive information retrieval: An exploratory research.

(2007, Proposed). SJSU Mini Grant. Principal Investigators: Geoffrey Z. Liu & Judy Weedman.

Book bags for better reading. (2003, Proposed). NSF Research Grant. Principal Investigators: Blanche Woolls & Geoffrey Z. Liu.

Natural language IR interface for K-12 children. (2001, Proposed). NSF Research Grant. Principal Investigators: Geoffrey Z. Liu, Judy Weedman & Linda Main.

Computer simulation study of communications formation in a virtual environment. (2000). SJSU/SLIS Summer Research Grant. Principal Investigator: Geoffrey Z. Liu.

Heuristic syntax parsing for information retrieval. (1996). SJSU Mini Grant. Principal Investigator: Geoffrey Z. Liu.

## Honors & Awards

“Access to Learning” Award, awarded to The Evergreen Education Foundation for its outstanding work in rural China, Bill & Melinda Gates Foundation, 2004.

## Editorship

**Editor-in-Chief**, *Interdisciplinary Journal of Information, Knowledge, and Management*, 2018-

Editor, 2013-2016; Associate Editor-in-Chief, 2017.

**Special Reviewer**, *Library Tribune*, a Chinese journal published by the Guangdong Provincial Library, China, 2013-

**Editorial board**. *Document, Information & Knowledge*, a Chinese journal published by the School of Information Management, Wuhan University, China. 2004-

**Member of Faculty Advisory Board**, *Student Research Journal*, School of Library and Information Science, San Jose State University, 2011.

## Gateway Doctoral Program

### Supervision

H.O. Jiang: Named entity recognition with artificial neural network. 2018-

L.Y. Han: Information literacy of doctoral students: An experimental study of instruction effectiveness. 2016-

M.H. Glickman: Characterizing users’ digital storage behaviors in a cloud-computing environment: A case study. Stage 2, 2012–2015.

N. Sarraf: Affective search: How do emotions affect search performance? Toward candidature confirmation. Stage 2, 2010–2012.

L. Anderson: Information sharing in virtual collaboration: A software engineering perspective. Completed, 2009–2015.

### Review/Confirmation Panelist

W. Butler: Is the library open?: Community college libraries and open educational practices. Stage 2, 2018

S. Abrams: Criteria and metrics for assessing digital curation success. Stage 2, 2017.

H. Zou: Understanding the role of social media in enhancing participatory services in public libraries. Stage 2 & Confirmation, 2015.

R. Okumoto: Digital storytelling effect on social presence within a higher

education distance learning environment. Stage 2, 2015.

- J. Hoodyskis: The use of social media technology in information seeking in large global business organizations. Stage 2, 2013.
- V. Tucker: Acquiring search expertise: Learning experiences and threshold concept., Confirmation, 2010.
- C. Stenstrom: Factors influencing funding decisions by elected politicians at the state/provincial level: A case study of public libraries in Canada. Stage 2, 2010.
- M. Harlan: Information pathways: The information practices and experiences of teen content. Confirmation, 2009.

## **Master Theses**

### **Chaired**

- K. Wagstaff: Automated classification to improve the efficiency of weeding library collections, 2017.
- J. Gladieux: The socioeconomic geographies of public library makerspaces, 2016.
- E. Clark: Automatic document classification and construction of taxonomy using text/data mining techniques (Proposal), 2015.
- R. Trapp: Born Analog v. Born Digital: A critical comparison of sound art digital preservation practices at the New Museum Digital Archive and Rhizome ArtBase (Proposal), 2015.
- M. Campos-Quinn: Experimental study of microorganisms on films: Implication for archival preservation (Proposal), 2012.
- M. Huff: Reviving classic literature in a middle school library: A field experimental study, 2013.
- T. Collin: Use of Web 2.0 technology in archives, 2012.
- J. Hufton: A quantitative study of footnote density in U.S. law journals since 1980 (Proposal), 2012.
- I. Trapido: Faceted library catalog interfaces in academic libraries: Supporting different user communities (Proposal), 2011.
- M. Onnagawa: Japanese monographs cataloging and its compatibility with LC CJK authority files (Proposal), 2008.
- A. Lukasiewicz: Students' preference of telephone and chat reference services, 2008.
- D. Shao: Chinese e-resources in north American East Asian libraries: A field study, 2007.
- B. Kowalczyk: An online staff training tutorial plan for key service points in the Dr. Martin Luther King, Jr. Library, 2006.
- L. Ngo: A study of natural language versus Boolean searching for broad queries, 2006.
- L. Pigniolo: The research value of photographic negatives (Thesis incomplete), 2005.
- S. Staley: Academic subject guides: A case study of use at San Jose State University, 2005.
- M. Gilbert: Rhythm & tales: Integrating musical elements with literacy for

children (K-1) (Proposal), 2004.

L. Erwine: A data file-driven online repository directory for the Society of California Archivists, 2004.

D. Dvorniks: Use of digital libraries: A survey study, 2003.

## Service

### Reviewing for Scholarly Journals

*American Educational Research Journal. Section on Teaching, Learning, and Human Development*, 2015

*International Journal of Computer-Supported Collaborative Learning*, 2014.

*Journal of American Society for Information Science & Technology*, 2013.

*International Journal of Computer-Supported Collaborative Learning*, 2013.

*International Journal of Information, Knowledge, and Management*, 2012.

*International Journal of Online Pedagogy and Course Design*, 2012.

*American Education Research Journal, Section on Teaching, Learning, and Human Development*, 2011.

MERLOT, *Journal of Online Learning and Teaching*, 2010, 2011.

*International Journal of Computer-Supported Collaborative Learning*, 2010.

Association for Computing Machinery (ACM) Special Interest Group on Computer-Human Interaction (SIGCHI), 2011 Conference.

*Journal of American Society for Information Science & Technology*, 2010.

American Society for Information Science (ASIS) Annual Meeting, 2009.

*IEEE Transactions on Knowledge and Data Engineering*, 2006.

Informing Science + IT Education Conference (InSITE), 2004, 2011–2013.

*Web Intelligence and Agent Systems (WIAS), an International Journal*, 2003.

*Journal of Computer-Mediated Communication*, 2001–2003.

The IS2002 Conference, 2001.

*Information Processing Letters*, 1998.

American Society for Information Science (ASIS) Mid-Year Conference, 1996, 2000.

*Journal of Management Information Systems*, 1995.

### Professional—National/International

External Evaluation, Applicants for promotion to Associate Professor and Professor, Department of Library and Information Science, University of Karachi, Pakistan, 2014.

Judge, The Jean Tague-Sutcliffe Competition of Doctoral Posters, Association of Library and Information Science Education (ALISE), 2012.

Member, Organization Committee, Yunnan Provincial Library's Centennial Anniversary International Conference, 2009.

Member, Organization Committee, International Conference of Information Technology in Education, The Evergreen Education Foundation, 2004–2006.



Member, Best Information Science Book Committee, American Society for Information Science (ASIS), 1998.

### **Professional—Regional**

Faculty Sponsor, San Francisco Bay Area Student Chapter, American Society for Information Science & Technology (ASIS&T), 1999–2011.

### **University**

Member, University-Level RTP Committee, San Jose State University, 2016–2018

Member, International Programs and Students Committee, San Jose State University, 2015–2018

Member, CASA College-Level RTP Committee, San Jose State University, 2013–2015

Member, School Committee for University Research Grant, San Jose State University, 2012.

Member, School Director Search Committees, San Jose State University, 2010–2012.

Member, Faculty Hiring Committees, San Jose State University, 2010–2012.

Coordinator, Teacher Librarian Credential program, San Jose State University, 2009.

Coordinator, LIBR295, San Jose State University, 2009.

Cohort group coordinator, Gateway Doctoral Program, San Jose State University, 2008–2012.

Member, College of Applied Sciences and Arts (CASA) Committee to Enhance Equity and Diversity, San Jose State University, 2007–2008, 2010–2011.

Chair & Member, Student Evaluation Review Board of the Senate, San Jose State University, 2007–2012.

Member, SJSU Faculty Hearing Panel, San Jose State University, 2007–2011.

Course coordinator, LIBR242/243/252/285/293/299, San Jose State University, 2006–2009.

Chair, Student Admissions and Adjudication Committee, San Jose State University, 2005–2007.

Member, College of Applied Sciences and Arts (CASA) Research and Faculty Development Committee, San Jose State University, 2005–2006, 2009–2012.

Member, SJSU Internal Review Board of Human Subjects, San Jose State University, 2004–2007.

Member, Department-Level Retention, Tenure & Promotion (RTP) Committee, San Jose State University, 2001–2016.

Member, Department Recruitment Committee, San Jose State University, 2001–2015.

Member, University Information Technology Board, San Jose State University, 2001–2003.

Chair, Department Scholarship Committee & Curriculum Committee, San Jose

State University, 2000–2001.

Department's acting graduate advisor/program coordinator, San Jose State University, 1999.

Coordinator, LIBR289 Culminating Experience, San Jose State University, 1998.

Member, University Academic Senate's Information Systems and Computing (ISC) Advisory Board, San Jose State University, 1997–2000.

Member, SJSU Communication and Information Forum, San Jose State University, 1997–1998.

Member, College Committee for CSU Research & Scholarly Activity Awards, San Jose State University, 1997.

Member, Department Scholarship Committee, San Jose State University, 1996–Present.

Member, University Faculty Mentor Program, San Jose State University, 1996–1998.

Member, Review Panel for the SJSU Grant Development Program, San Jose State University, 1996.

Faculty supervisor, Multi-Ethnic Recruitment Scholarship Program, San Jose State University, 1996.

Member, Department Admission Committee, Curriculum Committee, & Technology Committee, San Jose State University, 1995–Present.

#### **Doctoral Dissertation Examination**

S. Palani: Expert system for Indian pharmaceutical drugs. School of Library and Information Science, University of Madras, Chennai, India, 2002.

#### **Community Service**

Member, Advisory Board & Library Program Chair, Evergreen Education Foundation (non-profit organization in San Francisco Bay Area dedicated to advancing the development of school libraries in underdeveloped regions in China), 2001–2007.

Advisor, The Hua Kuang Library in Palo Alto, 1997.

#### **Memberships**

##### **Current**

American Society for Information Science & Technology (ASIS&T), 1994–2016.

Association of Library and Information Science Educators (ALISE), 1995–Present.

##### **Past**

Chinese American Librarian Association (CALA), 1998–2011.

Last updated March 21, 2018.