

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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TWITTER, INC.,

Petitioner

- vs. -

YOUTOO TECHNOLOGIES, LLC.,

Patent Owner

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DECLARATION OF INGRID HSIEH-YEE, PHD,

UNDER 37 C.F.R. § 1.68

I, Ingrid Hsieh-Yee, Ph.D., declare:

1. I have been retained as an independent expert witness on behalf of Twitter, Inc. ("Twitter") for the above-captioned *Inter Partes* Review ("IPR") proceeding of U.S. Patent No. 9,083,997 ("the '997 Patent").

2. I am being compensated for my work in this matter at my accustomed hourly rate of \$160.00. I am also being reimbursed for reasonable and customary expenses associated with my work and testimony in this investigation. My compensation is not contingent on the results of my study, the substance of my opinions, or the outcome of this matter.

3. My complete qualifications and professional experience are described in my curriculum vitae, a copy of which is attached as **Appendix A**. The following is a brief summary of my relevant qualifications and professional experience.

4. I am currently a Professor in the Department of Library and Information Science at the Catholic University of America. I have experience working in an academic library, a medical library, and a legislative library and have been a professor for more than 25 years. I hold a Ph.D. in Library and Information Studies from the University of Wisconsin-Madison and a Masters in Library and Information Studies from the University of Wisconsin-Madison.

5. I am an expert on library cataloging and classification and have

published two books on this subject, *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide* (2000, 2006). I teach a variety of courses, including “Cataloging and Classification,” “Internet Searches and Web Design,” “Advanced Cataloging and Classification,” “Organization of Internet Resources,” “Advanced Information Retrieval and Analysis Strategies,” and “Digital Content Creation and Management.” My research interests cover cataloging and classification, information organization, metadata, information retrieval, information architecture, digital collections, user interaction with information systems, and others.

6. I am fully familiar with a library cataloging encoding standard known as the “Machine-Readable Cataloging” standard, also known as “MARC,” which became the national standard for sharing bibliographic data in the United States by 1971 and the international standard by 1973. MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries.

7. Online Computer Library Center (OCLC) is the largest bibliographic network of the world, with more than 380 million records and more than 16,900 member institutions from 122 countries. OCLC members can contribute original cataloging records in MARC to the system, adopt existing MARC records, or derive new cataloging records from existing records. When an OCLC participating

institution acquires a work, it can create an original MARC record for this work in OCLC's Connexion system, the bibliographic system used by catalogers to create MARC records. Once the MARC record is created by a cataloger at an OCLC participating member institution, it becomes available to other OCLC participating members in Connexion for them to adopt for their local online catalogs. The MARC record is also made available to the public on WorldCat, which is a Web search portal maintained by OCLC that provides a user-friendly interface for the public to use data in MARC records.

8. Attached hereto as **Appendix B** is a true and correct copy of Parts 7 to 10 of "Understanding MARC Bibliographic" (<http://www.loc.gov/marc/umb/>) from the Library of Congress that I made when I visited the MARC Standards website at <http://www.loc.gov/marc/>. Experts in my field are very familiar with and would reasonably rely upon MARC documentation provided in Appendix B when forming their opinions.

9. A MARC record comprises several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code representing the type of data that follows. See **Appendix B**. For example, a work's title is recorded in Field 245, the primary author of the work is recorded in Field 100, an item's International Standard Book Number ("ISBN") is recorded in Field 020, an item's Library of Congress call number that uses Library

of Congress classification number is recorded in Field 050, the publication date is recorded in Field 260 under the subfield “c,” the physical volume and characteristics of a publication are recorded in Field 300, and topical subjects are recorded in the 650 fields.

10. The date of creation for the MARC record appears in Field 008, characters 00 through 05. This element is computer-generated to record the date a MARC record is created, and the date is presented in the *yymmdd* format. No matter how many times a MARC record has been modified, this data element is never changed. After an original MARC record is in the system, subsequent modification of the record is tracked by the system in Field 005, and the member institutions modifying the original record are recorded in subfield “d” of Field 040.

11. Library online catalogs are based on MARC records that represent their collections and help the public understand what materials are publicly accessible in those libraries. Most libraries with online catalogs have made their catalogs freely available on the Web. These online catalogs offer user-friendly search interfaces, often in the form of a single search box, to support searching by author, title, subject, keywords and other data elements. They also offer features for users to narrow their search results by language, year, format, and other elements. Many libraries display MARC records on their online catalogs with labels for the data elements to help the public interpret MARC records. Many

libraries also offer an option to display MARC records in MARC fields. After a MARC record is searchable on a library catalog, it is customary library practice to have the physical volume processed for public access soon after, usually within a couple of weeks.

12. Attached hereto as Exhibit **Ex-1010** is a true and correct photocopy of selected portions of “HTML5 Mastery Semantics, Standards, and Styling” by Bradford *et al.* (“Bradford”) that I made from a copy I acquired, having an ISBN-13 for the paperback: 978-1-4302-3861-4 on the copyright page.

13. Attached hereto as **Appendix C** is a true and correct copy of the MARC record for Bradford that I made, which experts in my field would reasonably rely upon when forming their opinions. The MARC record at **Appendix C** was obtained from the George Mason University online catalog (<http://magik.gmu.edu/cgi-bin/Pwebrecon.cgi?DB=local&PAGE=First>) that I personally identified and located. Field 020 shows the Bradford book’s ISBNs are 9781430238614 (ISBN-13) and 1430238615 (ISBN-10). Field 035 shows the OCLC system control number is 748329596. Field 008 informs me that the MARC record for Bradford was first created on “110825” (*i.e.*, August 25, 2011) and subfield “a” of Field 040 shows that BTCTA created the original record. BTCTA is the OCLC symbol for the book vendor, Baker & Taylor Incorporated Technical Services & Product Development. The George Mason MARC record is adopted

from the BTCTA record after several libraries modified the record (see subfield “d” for library symbols).

14. Attached hereto as **Appendix D** is a true and correct copy of the MARC record for Bradford that I made, which experts in my field would reasonably rely upon when forming their opinions. The MARC record at **Appendix D** was obtained from the Library of Congress Online Catalog (<https://catalog.loc.gov/>) that I personally identified and located. Field 020 shows that the Bradford book’s ISBNs are 9781430238614 (ISBN-13) and 1430238615 (ISBN-10). Field 035 shows the OCLC system control number is 748329596. Subfield “a” of Field 040 identifies BTCTA as the original creator of this MARC record, and the OCLC library symbol in the last subfield “d” (“DLC”) indicates the Library of Congress modified the record. Field 042 further explains this MARC record is an “lccopycat” based on the BTCTA record and the copy cataloged MARC record was created by the Library of Congress on “120411” (*i.e.*, December 4, 2011).

15. In view of the foregoing, the first available MARC record was created on August 8, 2011, adopted by George Mason University, and modified by the Library of Congress on December 4, 2011. It is my opinion that Bradford would have been searchable on WorldCat as early as August 8, 2011, but in any event no later than December 4, 2011, and therefore accessible to the public as of that time.

16. In signing this declaration, I recognize that the declaration will be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in the case. If cross-examination is required of me, I will appear.

17. I hereby declare that all statements made herein on my own knowledge are true and that all statements made on information and belief are believed to be true, and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Date: 12-28-2016

Executed: Ingrid Hsieh-Yee  
Ingrid Hsieh-Yee, Ph.D.



# APPENDIX A

## **Ingrid Hsieh-Yee**

Professor

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### **Education**

Ph.D. Library and Information Studies, University of Wisconsin-Madison  
Minors: Sociology and Psychology

M.A. Library and Information Studies, University of Wisconsin-Madison.

M.A. Comparative Literature, University of Wisconsin-Madison.

B.A. Foreign Languages and Literature, National Taiwan University.

### **Work Experience**

Professor, School/Dept. of Library and Information Science, Catholic University of America,  
2004- (Assistant Professor, 1990-1996; Associate Professor, 1997-2004)

Co-Chair, Dept. of Library and Information Science, Catholic University of America, June 2015-  
August 2016.

Acting Dean, School of Library and Information Science, Catholic University of America,  
January 2010-June 2012.

Cataloger, Dept. of Legislative Reference Library, Annapolis, Maryland, 1989-1990.

Lecturer, School of Library and Information Studies, University of Wisconsin-Madison, 1988.

Teaching Assistant, School of Library and Information Studies, University of Wisconsin-  
Madison, 1986-1988.

Cataloger, Health Sciences Library, University of Wisconsin-Madison, 1984-1986.

### **Areas of Teaching and Research Interests**

Information Organization and Access; Metadata; Cataloging & Classification; Information  
Architecture; Information Retrieval; Digital Collections; Scholarly Communication; Information

Behavior; Health Informatics; Human Computer Interaction; Usability Studies

## Grants & Honors

Cultural Heritage Information Management Project. IMLS grant. Amount: \$498,741. Period: Aug. 2012 to July 2015. Co-PI with Dr. Youngok Choi.

D.C. Health Information Technology (HIT4): Building Capacity & Providing Access in Our Nation's Capital. Dept. of Labor H2B Training Grant. Grant amount: \$4,175,500. Grant period: Nov. 2011 to Dec. 2015. Partner with the Metropolitan School of Professional Studies of the Catholic University of America, Children's National Medical Center, D.C. Department of Employment Services, Holy Cross Hospital, Howard University, Center for Urban Progress, Providence Hospital, and Sibley Memorial Hospital.

Capital Health Careers Project. Department of Labor Healthcare Sector and Other High Growth and Emerging Industries Grant. Grant amount: \$4,953,999. Grant period: March 2010 – February 2013. Awarded to a group of healthcare organizations and educational institutions in Washington, D.C. Providence Health Foundation of Providence Hospital (Lead institution). Part of the grant supported the development of a Master's degree program in Information Technology with a concentration in Health Information Technology offered by the School of Library and Information Science.

The Washington D.C. School Librarians Project. IMLS grant. Grant amount: \$412,660. Grant period: Aug. 2007 – June 2011. The School partnered with the District of Columbia Public Schools (DCPS) and the District of Columbia Library Association to educate and mentor school media specialists for the DCPS system. PI, Jan. 2010 to June 2011.

SIG Member of the Year, American Society for Information Science and Technology (2009).

Most Outstanding Paper of *OCLC Systems & Services* (2001).

ALISE Research Grant (2001).

Most Outstanding Paper of *OCLC Systems & Services* (2000).

Research Grant from ERIC (1999-2000).

Best Research Paper Award; Association for Library and Information Science Education (1998).

Research Grants, Catholic University of America. 1991, 1992, 1993, 1996, 1998, 1999, 2004, 2005, 2006, 2007, 2013-14.

Cooperative Faculty Research Grant, Consortium of Universities in the Washington Metropolitan Area (1993-1994).

Cooperative Research Grant, Council on Library Resources (1993-1994).

*Journal of the American Society for Information Science* Best Paper Award (1993).

ASIS/ISI Information Science Doctoral Dissertation Scholarship (1989).

HEA Title IIB Fellowship (Dept. of Education) (1989)

Chinese-American Librarians Association Scholarship (1987).

Beta Phi Mu (1985).

Vilas Fellowship, University of Wisconsin-Madison. 1984

## **Publications**

Choi, Y., and Hsieh-Yee, I. (2010). Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes. *Canadian Journal of Information and Library Science*, 34(3): 271 – 295.

Hsieh-Yee, I. (2008). Educating Cataloging Professionals in a Changing Information Environment. *Journal of Education for Library and Information Science*, 46(2): 93-106.

Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007). The Metadata Education and Research Information Commons (MERIC): A Collaborative Teaching and Research Initiative. *Education for Information*, 25(3&4): 169-178.

*NISO Framework for Guidelines for Building Good Digital Collections*. 3<sup>rd</sup> ed. Baltimore, MD: National Information Standards Organization, 2007. Also available online: <http://www.niso.org/framework/framework3.pdf> (NISO Working Group members: Priscilla Caplan (chair), Grace Agnew, Murtha Baca, Tony Gill, Carl Fleischhauer, Ingrid Hsieh-Yee, Jill Koelling, and Christie Stephenson.)

Choi, Y., Hsieh-Yee, I., and Kules, B. (2007). Retrieval Effectiveness of TOC and LCSH. *Proceedings of the Joint Conference on Digital Libraries*, pp. 233-234.

Vellucci, S., and Hsieh-Yee, I. (2007). They Didn't Teach Me That in Library School! Building a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research. *Proceedings of the National Conference of the Association of College and Research Libraries, Baltimore, MD*, pp. 26-31.

Mitchell, Vanessa, and Ingrid Hsieh-Yee. (2007). Converting Ulrich's Subject Headings to FAST Headings: A Feasibility Study. *Cataloging & Classification Quarterly*, 45(1): 59-85.

- Hsieh-Yee, I., Tang, R., and Zhang, S. (2007). User Perceptions of a Federated Search System. *IEEE Technical Committee on Digital Libraries Bulletin*, Summer 3(2) (URL = <http://www.ieee-tcdl.org>).
- Tang, R., Hsieh-Yee, I., and Zhang, S. (2007). User Perceptions of MetaLib Combined Search: An Investigation of How Users Make Sense of Federated Searching." *Internet Reference Services Quarterly*, 12(12): 211-236.
- Hsieh-Yee, I., Tang, R., and Zhang, S. (2006). User Perceptions of a Federated Search System. *Proceedings of the Joint Conference on Digital Libraries, June 11-15, 2006, Chapel Hill*, p. 338.
- Hsieh-Yee, I. (2006). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. 2nd ed. Westport, Conn.: Libraries Unlimited.
- NISO A Framework of Guidance for Building Good Digital Collections*. 2nd ed. Bethesda, MD: National Information Standards Organization, 2004. Framework Advisory Group: Grace Agnew, Liz Bishoff, Priscilla Caplan (Chair), Rebecca Gunther and Ingrid Hsieh-Yee.
- Hsieh-Yee, I. (2004). Cataloging and Metadata Education in North American LIS Programs. *Library Resources & Technical Services*, 48(1): 59-68.
- Hsieh-Yee, I. (2004). Cataloging and Metadata Education. In Gary E. Gorman (Ed.), *International Yearbook of Library and Information Management 2003: Metadata Applications and Management*, (pp.204-234). London: Facet Publishing.
- Yee, P. L., Hsieh-Yee, I., Pierce, G.R., Grome, R., and Schantz, L. (2004). Self-Evaluative Intrusive Thoughts Impede Successful Searching on the Internet. *Computers in Human Behavior*, 20(1): 85-101.
- Hsieh-Yee, I. (2003). Cataloging and Metadata Education: A Proposal for Preparing Cataloging Professionals of the 21st Century. A report submitted to the ALCTS-Education Task Force in response to Action Item 5.1 of the *Bibliographic control of Web Resources: A Library of Congress Action Plan*. Approved by the Association for Library Collections and Technical Services. Web version available since April 2003 at <http://lcweb.loc.gov/catdir/bibcontrol/CatalogingandMetadataEducation.pdf>.
- Hsieh-Yee, I. (2002). Cataloging and Metadata Education: Asserting a Central Role in Information Organization. *Cataloging & Classification Quarterly* 34(½): 203-222.
- Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part I. *OCLC Systems & Services*, 17: 133-140. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)

- Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part II, Automated Tools and Usage. *OCLC Systems & Services*, 17: 166-177. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)
- Hsieh-Yee, I. (2001). ERIC User Services: Changes and Evaluation for the Future. *Government Information Quarterly*, 18: 31-42.
- Hsieh-Yee, Ingrid. (2001). Research on Web Search Behavior. *Library and Information Science Research*, 23: 167-185.
- Logan, E., and Hsieh-Yee, I. (2001). Library and Information Science Education in the Nineties. *Annual Review of Information Science and Technology*, 35: 425-477.
- Hsieh-Yee, I. (Ed.) (2001). *Library and Information Science Research*, 23 (2). A special issue in honor of the retirement of Douglas L. Zweizig.
- Hsieh-Yee, I. (2000). *ERIC User Services: Evaluation in a Decentralized Environment*. Washington, D.C.: Dept. of Education.
- Hsieh-Yee, Ingrid. (2000). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. Littleton, CO: Libraries Unlimited.
- Hsieh-Yee, I. (2000). Organizing Internet Resources: Teaching Cataloging Standards and Beyond. *OCLC Systems & Services*, 16: 130-143. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2000" award.)
- Hsieh-Yee, I. (1998). The Retrieval Power of Selected Search Engines: How Well Do They Address General Reference Questions and Subject Questions? *Reference Librarian*, 60: 27-47.
- Hsieh-Yee, I. (1998). Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study. *Reference Librarian*, 60: 61-85. (Received the 1997 Best ALISE Research Paper Award.)
- Hsieh-Yee, I. (1997). Access to OCLC and Internet Resources: LIS Educators' Views and Teaching Practices. *RQ*, 36: 569-86.
- Hsieh-Yee, I. (1997). Teaching Online and CD-ROM Resources: LIS Educators' Views and Practices. *Journal of Education for Library and Information Science*, 38: 14-34.
- Hsieh-Yee, I. (1996). The Cataloging Practices of Special Libraries and Their Relationship with OCLC. *Special Libraries*, 87: 10-20.

- Hsieh-Yee, I. (1996). Modifying Cataloging Practice and OCLC Infrastructure for Effective Organization of Internet Resources. In *Proceedings of the OCLC Internet Cataloging Colloquium*. [Online]. Available: <http://www.oclc.org/oclc/man/colloq/hsieh.htm>
- Hsieh-Yee, I. (1996). Student Use of Online Catalogs and Other Information Channels. *College & Research Libraries*, 57: 161-175.
- Hsieh-Yee, I. (1995). Ten entries in James S. C. Hu (Ed.), *Encyclopedia of Library & Information Science*, 913, 1028-29, 1036, 1037, 1145-46, 1514, 1575, 1763-64, 2216-27, 2378-79. Taipei, Taiwan: Sino-American Publishing. (Topics include "Advanced Technology/Libraries," "Information Ethics," "Instruction on Cataloging and Classification," "Instruction on Reference Services.")
- Hsieh-Yee, I. (1993). Effects of Search Experience and Subject Knowledge on Online Search Behavior: Measuring the Search Tactics of Novice and Experienced Searchers. *Journal of the American Society for Information Science*, 44: 161-174. (Received the 1993 Best JASIS Paper Award.)

## **Presentations**

- Hsieh-Yee, I. (February, 2017) *Research Data Management: New Competencies and Opportunities for Information Professionals*. Selected for presentation at the 9th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. and Lawton, P. (February, 2017) *Enhancing Catholic Portal Searches with User Terms and LCSH*. Selected for presentation at the 9th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. (2016, October) *Visualizing Data for Information*. Presented at the 2016 Virginia Library Association Conference, Hot Springs, VA.
- Hsieh-Yee, I. (2016, August) *Religious Materials Toolbox for Archivists: Solutions to Problems Facing the Profession*. Presented at Archives \* Records 2016, Atlanta, GA.
- Hsieh-Yee, I. and Lawton, P. (2016, March) *Enhancing Retrieval of Catholic Materials with LCSH Knowledge Structure*. Presented at the 2016 Catholic Library Association Conference, San Diego, CA.
- Fagan-Fry, J. and Hsieh-Yee, I. (2016, February) *Approaches to Digital Scholarship at Top Universities around the World: Scholarly Publishing in the Digital Age*. Presented at the 8th Bridging the Spectrum Symposium, Washington, D.C.

- Hsieh-Yee and Fagan-Fry, J. (2016, January) *Innovative Services for Digital Scholarship at Top 100 Research Libraries of the World*. Poster presented at the 2016 Annual Conference of the Association for Library and Information Science Education, Boston, Mass.
- Hsieh-Yee, I. and Lawton, P. (2015, June). *Crowdsourcing terms for CRRA portal themes*. Poster presented at the third CRRA symposium and annual meeting, Bringing the created toward the Creator: Liturgical art and design since Vatican II. Catholic Theological Union, Chicago, Illinois.
- Hsieh-Yee, I. and Lawton, P. (2015, February). *Crowdsourcing terms for thematic exploration in the Catholic Portal*. Poster presented at the 7<sup>th</sup> Annual Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I., James, R., and Fagan-Fry, J. (2015, February). *Support for digital scholarship at top university libraries of the world*. Poster presented at the 7<sup>th</sup> Annual Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2015, February). *Thus said the end users: Summon experience and support for research workflows*. Poster presented at the 7<sup>th</sup> Annual Bridging the Spectrum Symposium, Washington, D.C.
- Yontz, E., Hsieh-Yee, I., & Houston, S. (2015, February). *Healthy Heroes Summer Reading Club: Developing healthy youth at public libraries*. 11th Annual Jean Mills Health Symposium, Greenville, North Carolina.
- Yontz, E., Hsieh-Yee, I., and Houston, S. (2015, January). *Healthy youth and libraries: A pilot study*. Association for Library & Information Science Education (ALISE) Annual Conference, Chicago, Illinois.
- Hsieh-Yee, I. (2014, May). *Linking CRRA resources to portal themes via authority files*. Presented at the Catholic Research Resources Alliance 2014 Membership Meeting, Marquette, WI.
- Hsieh-Yee, I. (2014, April). *Enhancing subject access to CRRA resources*. Presented at the 2014 Catholic Library Association Conference, Pittsburgh, PA.
- Hsieh-Yee, I. (2014, January). *Health Information Technology Program: Educational entrepreneurship in action*. Presented at the 2014 annual Conference of the Association for Library and Information Science Education, Philadelphia, PA.
- Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2014, January). *Discovering information through Summon: An analysis of user search strategies and search success*. Paper presented at the 6th Bridging the Spectrum Symposium, Washington, D.C.



- Hsieh-Yee, I. (2012, December). *National Digital Stewardship Alliance and SLIS at CUA: An Educational Partnership*. Paper presented at Best Practices Exchange: Acquiring, Preserving, and Providing Access to Government Information in the Digital Era, Annapolis, MD
- Choi, Y. and Hsieh-Yee, I. (2010, January). *Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes*. Paper presented at 2<sup>nd</sup> Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. and Coogan, J. (2010, January). *Google Scholar vs. Academic Search Premier: What Libraries and Searchers Need to Know*. Paper presented at 2<sup>nd</sup> Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2009, November). *Information Science Education: An LIS School's Perspective*. Paper presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada.
- Hsieh-Yee, I., Menard, E., Ya-Ning Chen, A., Shu-Jiun Chen, S., Kalfatovic, M. R., Wisser, K. M. (2009, November). *Information Organization in Libraries, Archives and Museums: Converging Practices and Collaboration Opportunities*. Presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada. (Organizer and moderator of this panel.)
- Hsieh-Yee, I. and Coogan, J. (2009, July). *Catching up to Google Scholar: The Retrieval Power of Academic Search Premier and Google Scholar*. Poster presented at American Library Association Conference, Chicago, Illinois.
- Hsieh-Yee, I., with the CUA Scholarly Communications Project Team. (2009, January). *Digital Scholarship@CUA: Developing an Institutional Repository for CUA*. Poster presented at 1<sup>st</sup> Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Wise, M., Cylke, K., and Hsieh-Yee, I. (2009, January). *Digital Talking Books: Meeting the Needs of the Blind and the Handicapped*. Paper presented at the Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2009, January). *User Expectations of MERIC*. Presented at the Information Organization Competencies for the 21st Century Discussion Session of the 2009 Conference of the Association for Library and Information Science Education, Denver, Colorado.
- Choi, Y., and Hsieh-Yee, I. (2008, November). *Subject Access for Images in an OPAC*. Annual Meeting of the American Society for Information Science and Technology, Columbus, Ohio. (Also co-organized a panel on Retrieving and Using Visual Resources: Challenges and Opportunities for Research and Education.)

- Hsieh-Yee, I. (2008, June). *Educating Cataloging Professionals in a Changing Information Environment*. National Taiwan University, Taipei, Taiwan.
- Vellucci, S. L., Moen, W.E., Hsieh-Yee, I., Marson, B., and Wisser, K. (2008, January) *Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input*. A panel presented at the 2008 Conference of the Association for Library and Information Science Education, Philadelphia, Pennsylvania.
- Hsieh-Yee, I., Choi, Y. and Kules, B. (2007, October). *Searching for Books and Images in OPAC: Effects of LCSH, TOC and Subject Domains*. A poster presented at the American Society for Information Science and Technology Annual Meeting, Milwaukee, Wisconsin.
- Hsieh-Yee, I. and Coogan, J. (2007, August) *Google Scholar vs. Academic Search Premier: A Comparative Analysis*. Presented to the Faculty and Staff of the University of the District of Columbia.
- Hsieh-Yee, I. and Coogan, J. (2007, June). *Google Scholar vs. Academic Search Premier: A Comparative Analysis*. Presented to the Washington Research Library Consortium Community, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I., Choi, Y., and Kules, B.. (2007, June). *What Users Need for Subject Access: Table of Contents or Subject Headings?* A poster presented at the 2007 American Library Association Annual Conference, Washington, D.C., June 2007.
- Choi, Y., Hsieh-Yee, I., and Kules, B. (2007, June). *Retrieval Effectiveness of TOC and LCSH*. A paper presented at the Joint Conference on Digital Libraries 2007, Vancouver, Canada.
- Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007, May). *If We Build It, Will They Come? Building a Community of Practice for Metadata Stakeholders*. A poster presented at the Rutgers University Research Day, Bridgeton, New Jersey.
- Hsieh-Yee, I. (2007, May). *Federated Searching: User Experience & Perceptions*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.
- Hsieh-Yee, I. (2007, May). *Search Performance of Google Scholar and Academic Search Premier*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.
- Hsieh-Yee, I. (2007, May) *MERIC: Building a Digital Commons for Metadata Education & Research*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.

- Hsieh-Yee, I., and Coogan, J. (2007, March/April). *A Comparative Analysis of Google Scholar and Academic Search Premier*. Poster presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland.
- Vellucci, S. L. and Hsieh-Yee, I. (2007, March/April) *They Didn't Teach Me That in Library School! Building a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research*. On-site presentation and Webcast by Elluminate. A contributed paper presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland. The acceptance rate for contributed paper was 20%. This paper was one of 10 conference papers chosen for live webcast during the conference.
- Moen, W., Hsieh-Yee, I. and Vellucci, S.L. (2007, January) *A DSpace Foundation for a Teaching & Research Commons: The Metadata Education and Research Information Commons*. A poster session presented at the Open Repositories Conference 2007, San Antonio, Texas.
- Tang, R., Hsieh-Yee, I., and Zhang, S. (2006, November) *User Perception of MetaLib Combined Search*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas, Nov. 2006.
- Hsieh-Yee, I. (2006, November). *Federated Searching: User Perceptions, System Design, and Library Instructions*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter).
- Hsieh-Yee, I. (2006, November). *Building a Digital Teaching Commons to Enhance Teaching and Learning: The MERIC Experience and Challenges*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter)
- Hsieh-Yee, I. (2006, September). *Search Performance of Google Scholar and Academic Search Premier*. Paper presented at the ERIC Publishers Meeting, Washington, D.C.
- Hsieh-Yee, I., Zhang, S., and Rong Tang, R. (2006, June). *User Perceptions of a Federated Search System*. Poster presented at Joint Conference on Digital Libraries, Chapel Hill, North Carolina.
- Hsieh-Yee, I. and Zhang, S. (2006, June). *Preparing Users for Federated Search: Implications of a MetaLib User Perceptions Study*. Paper presented at the 2006 Ex Libris User Groups of North America Conference, Knoxville, Tennessee.
- Hsieh-Yee, I. (2006, January). *MERIC Organizations and Navigation*. Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.

- Hsieh-Yee, I. (2006, January). *Metadata and Cataloging Education: Recommended Competencies*. Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.
- Hsieh-Yee, I. (2005, November). *Digital Library Evaluation: Progress & Next Steps*. Presentation at the Annual Meeting of the American Society for Information Science & Technology, Charlotte, North Carolina.
- Hsieh-Yee, I. (2005, August). *Providing Access to Digital Content: Issues for DL Managers*. Presentation at MDK12 Digital Library Steering Committee Meeting, Columbia, Maryland.
- Hsieh-Yee, I. (2005, April). *Enhancing Teaching and Learning: The Role of School Library Media Specialists*. Presentation at Meeting of the Baltimore County Public School System School Media Specialists, Baltimore, Maryland.
- Hsieh-Yee, I. (2005, January). *Subject Access and Users: Insights & Inspirations from Marcia J. Bates*. Paper presented at the Historical Perspectives SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.
- Hsieh-Yee, I. (2005, January). *Electronic Resource Management: Practice, Employer Expectations, & CE Interests*. Paper presented at Technical Services Education SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.
- Hsieh-Yee, I. (2004, October). *Library Professionals for the Digital Age: Competencies & Preparation*. Paper presented at Bibliographic Access Management Team meeting, Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (2004, January). *Cataloging and metadata expertise for the digital era*. Presented at Preparing 21<sup>st</sup> Century Cataloging and Metadata Professionals: A Workshop for Educators and Trainers, San Diego and sponsored by ALCTS, ALISE, LC, and OCLC.
- Hsieh-Yee, I. (2004, January). *Educating catalogers for the digital era*. Paper presented at the Technical Services SIG, 2004 Conference of the Association for Library and Information Science Education, San Diego.
- Hsieh-Yee, I. (2003, July). *Cataloging Education for the 21<sup>st</sup> Century*. A presentation at the Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (2002, January). *Metadata Education and Research Priorities: A Delphi Study of Metadata Experts*. Presentation at the 2002 Conference of the Association for Library and Information Science Education, New Orleans.

- Hsieh-Yee, I. (2001, November). *A Delphi Study of Metadata: Preliminary Findings*. Poster session at the 2001 Annual Meeting of the American Society for Information Science & Technology, Washington, D.C.
- Hsieh-Yee, I. (2001, June). *Resources on Asian American Children: Analysis of Retrieval by Search Engines and WorldCat*. Presentation at the National Conference on Asian Pacific American Librarians, San Francisco.
- Hsieh-Yee, I. (2001, January). *Delphi Study on Metadata: Project Design*. Presentation at Research Awards Session, Association for Library & Information Science Education, Washington, D.C.
- Hsieh-Yee, I. (2000, May). *Web Search Behavior Research: Progress and Implications*. Presentation at the Symposium on Evaluating Library and Information Science Research, University of Wisconsin-Madison, Madison, Wisconsin.
- Hsieh-Yee, I. (2000, March). *ERIC User Services: Evaluation in a Decentralized Environment*. Presentation at the National ERIC Joint Directors/Technical Meeting, Arlington, Virginia.
- Hsieh-Yee, I. (2000, January). *Enhancing Learning with Web Technology*. Presentation at Faculty Conversations, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2000, January). *From Surrogates to Objects: CUA's Approaches to Organizing Electronic Resources*. Paper presentation at the Annual Conference of the Association for Library and Information Science Education, San Antonio, Texas.
- Yee, P., and Hsieh-Yee, I. (1997, November). *Individual Differences in Search Behavior on the WWW*. A poster session presented at the 38th Annual Meeting of the Psychonomic Society, Philadelphia, Pennsylvania.
- Hsieh-Yee, I. (1997, April). *Research + Marketing + Preparation = Job!* Presented at the "Workshop on Resume and Interview Techniques," Special Libraries Association, Student Chapter, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (1997, February). *Creating CyberCatalogers: Education and Training*. Presentation at ALA's Midwinter Meeting, Washington, D.C.
- Hsieh-Yee, I. (1997, February). *Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study*. Presented at the Conference of the Association for Library and Information Science Education, Washington, D.C.
- Hsieh-Yee, Ingrid. "Beginning Your Special Library/Information Center Career." Presented at SLA's "Career Day," Jan. 11, 1997, Catholic University of America.

- Hsieh-Yee, I. (1996, September). *The Roles of Library and Information Scientists in Managing Electronic Information*. Presentation at Hamilton College, Clinton, New York.
- Hsieh-Yee, I. (1996, May). *The Future of Cataloging as a Profession*. Presented at "The Cataloging Forum, Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (1994, October). *The Impact of the Internet on OPACs*. Presented at the Third Workshop on User Interfaces for OPACs, Library of Congress, Washington, D.C.

## Reports

- Hsieh-Yee, I., with Knowledge Management Competencies and Performance Action Group of the Federal Knowledge Management Initiative. "From Knowledge Management Competencies to Improved Organizational Performance." April 9, 2009.
- Hsieh-Yee, I., with Knowledge Practices Action Group of the Federal Knowledge Management Initiative. "KM Practice in Government Agencies: Findings and Recommendations." April 9, 2009.
- Hsieh-Yee, I. "Delphi Study on Metadata." 2001. Three quarterly reports submitted to the Association for Library and Information Science Education.
- Hsieh-Yee, I. "College Students' Information Channels: Patterns of Use and Possible Factors in Channel Selection." 1995. Submitted to the Catholic University of America.
- Hsieh-Yee, I. "The Information-Seeking Patterns of Scholars and Their Use of an Online Information System." 1994. Submitted to the Council on Library Resources.

## Book Reviews

- Review of *The Measurement and Evaluation of Library Services*, by Sharon L. Baker and F. Wilfrid Lancaster. *Information Processing and Management* 30 (1994): 450-52.
- Review of *Subject Access to Films and Videos*, by Sheila S. Intner and William E. Studwell; and *Cataloging Unpublished Nonprint Materials*, by Verna Urbanski with Bao Chu Chang and Bernard L. Karon. *Information Processing and Management* 30 (1994): 449-50.
- Review of *Automated Information Retrieval in Libraries: A Management Handbook*, by Vicki Anders. *Journal of Library and Information Science* 19 (1993): 98-100.
- Review of *Full Text Databases*, by Carol Tenopir and Jung Soon Ro. *Information Processing and Management* 28 (1992): 667-68.

Review of *Descriptive Cataloging for the AACR2R And USMARC: A How-to-Do It Workbook*, by Larry Millsap and Terry Ellen Ferl. *Information Processing and Management* 28 (1992): 809-11.

Review of *MARC Manual: Understanding and Using MARC Records*, by Deborah J. Byrne. *Information Processing and Management* 28 (1992): 537-38.

## Service

### Professional Associations and Societies

- Library of Congress. RDA Training Program for the Profession. Co-authored with Tim Carlton. 2013-2014.
- 2014 Digital Preservation Outreach & Education Survey. Contributed to the design of the survey, 2014.
- National Digital Stewardship Alliance. Outreach Committee. 2011-2014.
- National Digital Stewardship Residency Program. Advisory Group, 2012-2013.
- FEDLINK Health Information Technology Advisory Council, 2011-2015.
- 2012 Joint Conference on Digital Libraries. Program Planning Committee, Pre-Conference Proposals Review Committee, 2012
- Catholic Research Resources Alliance. Five-Year Strategic Plan Task Force, 2011-2012
- Institute of Museum and Library Services. Grant reviewer. 2004, 2005, 2010.
- Association for Library and Information Science Education.
  - \* ALISE Bodan Wynar Research Paper Award Committee, 2015, 2016
  - \* ALISE Eugene Garfield Dissertation Award Competition, Jury, 2013, 2014
  - \* ALISE Research Grant Competition Committee. Chair, 2012
  - \* Pratt-Severn Faculty Innovation Award. Chair, 2009, 2010
  - \* ALISE Doctoral Poster Jury, 2012
  - \* “Information Organization Competencies for the 21st Century” Discussion session leader. 2009 Conference of the Association for Library and Information Science Education.
  - \* Assisted Technical Services SIG Convener in organizing a program, ““Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input” for the 2008 ALISE conference.
  - \* Association for Library Collections and Technical Services/Association for Library and Information Science Education (ALCTS/ALISE) Metadata Education and Research Information Center (MERIC) Advisory Board, Co-Chair (with Sherry Vellucci), 2005-2007. Chair, 2008-2009 (leading the effort to build MERIC, a repository and collaborative space for metadata educators, practitioners, and researchers)
  - \* Technical Services SIG, Convener, 2004-2005. Organized a program on “Electronic Resources Management: Current Practices, Employer Expectations, and Teaching Strategies” for the 2005 conference in Boston, Massachusetts.

- \* Technical Services SIG, Convener, 2003-2004. Organized a program on "Organizing Information with Metadata: Desired Competencies and Teaching Innovations" for the 2004 conference.
- \* Technical Services SIG, Convener, 1999-2000. Organized a program on "Teaching the Organization of Electronic Resources" for the 2000 conference.
- \* Curriculum SIG, Co-convener (with Sibyl Moses), 1996-97. Organized a program on "Government Information Policy" for the 1997 conference.
- American Society for Information Science & Technology.
  - \* Reviewer, Conference program panel submissions and poster submissions, 2005, 2006, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016
  - \* Nomination Committee, 2009-2011
  - \* Information Science Education Special Interest Group. American Society for Information Science and Technology. Chair-Elect, 2007-2008. Chair 2008-2009.
  - \* Committee on Information Science Education. 1999-2006.
  - \* Committee on Information Science Education. Organizing Committee for an orientation program for students at ASIS annual meetings, 1999-2001
  - \* Committee on Information Science Education. Sub-committee on Student Welfare (focusing on issues related to master's education), 1998-2001
  - \* SIG ED. Organizing Committee for the "Seminar on Research and Career Development" for junior researchers. 1995-96 (chair), 1997-2001
  - \* ISI Doctoral Dissertation Proposal Scholarship Jury, 1997; 2001, 2002
  - \* Pratt-Severn Best Student Research Paper Award Jury. Chair. 1997
  - \* 1998 Midyear Meeting (referee of contributed papers), 1997
  - \* Organizer and moderator of the ASIS Doctoral Forum and the Doctoral Research Seminar 1994-1995
  - \* SIG Human Computer Interaction. Chair-Elect, Chair, 1993-1995
  - \* Doctoral Forum Award Jury, 1995
  - \* Best Student Paper Award Jury, 1995
- American Library Association.
  - \* Committee on Accreditation, External Review Panelist, 2009- (site visiting team 2013-2014; site visiting team 2016-2017)
  - \* Association for Library Collections and Technical Services Task Force on Competencies and Education for a Career in Cataloging, member, 2008-2009
  - \* Facilitator for "What They Don't Teach in Library School: Competencies, Education and Employer Expectations for a Career in Cataloging," an Association for Library Collections and Technical Services Preconference, June 22, 2007 in Washington, D.C. Also a local liaison for bringing this program to the Catholic University of America.
  - \* Facilitator for a discussion on "Effect of Electronic Resources on Technical Services" at ALA's Midwinter Meeting held in Feb. 1997 in Washington, D.C.
  - \* International Relations Committee, Subcommittee Task Force for IFLA and China, 1994-1997



- Virginia Association of School Librarians. Scholarships and Awards Committee. 2010-2012
- Federal Knowledge Management Initiative, Knowledge Management Practices Action Group. Member. 2009 (leading the effort to build a knowledge management repository)
- Federal Knowledge Management Initiative, Knowledge Management Competencies & Learning Action Group. Member. 2009 (developing an action plan for helping government knowledge workers and government agencies to develop knowledge management competencies)
- National Center for Education Statistics. Technical Review Panel. 2008.
- External evaluator for a case of promotion to full professorship. University of Tennessee. 2008.
- National Information Standards Organization (NISO). Advisory Board, Revision of “IMLS Framework of Guidance for Building Good Digital Collections,” 2004, 2007.
- Library of Congress, Bibliographic Control of Web Resources: A Library of Congress Action Plan. Principal Investigator of Action Item 5.1, focusing on cataloging and metadata education for students and new librarians, 2002-2003. (worked with the Association for Library Collections and Technical Services, Education Task Force)
- Chinese American Librarians Association
  - \* Margaret Fang Achievement Award Jury, 2016
  - \* Achievement Award Jury, 2000-2001
  - \* CALA Goal 2000 Task Force, 1997
  - \* Scholarship Committee, 1995, 1996-1997 (chair)
  - \* Board of Directors, 1994-1997
  - \* Publication Committee, 1993-1995
  - \* International Relations Committee, 1993-1996
- Sailor<sup>SM</sup> Assessment Advisory Group (An impact study of Sailor, Maryland's Public Information Network), 1995
- Editorial boards
  - Journal of Library and Information Science. Editorial Board, 2012-
  - Chinese American Librarians Association, *Occasional Papers Series*. Editorial Board, 2009-2016.
  - Library Quarterly*. Editorial Board, 2003-2008
  - Bulletin of the Medical Library Association*, 1994-97
  - Newsletter editor for the Chinese American Librarians Association, 1989-92
- Referee for the following journals
  - Information Processing and Management*
  - Journal of Digital Information*
  - Journal of Education for Library and Information Science*
  - Journal of Information Science*
  - Journal of Library & Information Science*

*Journal of Library Metadata*  
*Journal of the American Society for Information Science & Technology*  
*Library and Information Science Research*  
*Library Quarterly*

- Expert reviewer, “Digital Library” course, Evaluation module, University of North Carolina, Chapel Hill, 2007-2008.
- Expert reviewer, “Information Organization” course, University of Michigan, Ann Arbor. 2007.

### **Catholic University of America**

- School of Arts & Sciences, Committee on Appointments and Promotions, 2015-2019
- School of Arts & Sciences, Academic Council, 2015-2016.
- School of Arts & Sciences, Ordinary Professor Group, 2013-
- President’s Administrative Council, 2010-2012
- Deans’ Council, 2010-2012
- Academic Leadership Group, 2010-2012
- Academic Senate, 2003-2012
- Academic Senate, Committee on Committees and Rules, 2009-2012
- Academic Senate, Committee on Appointments and Promotions, 2005-2008
- Graduate Board, 2010-2012
- CUA Scholarly Communication Project Team, Member (2007), Chair, 2008-2009
- Academic Senate Library Committee, Interim Chair (2007), Member, 2008-2012
- Doctoral Dissertation Defense Committee, Chair, Dept. of Education, 2014, 2015
- Doctoral Dissertation Defense Committee, Chair, School of Nursing, 2006, 2008
- Dean Search Committee, 1992-1994, 1998-1999, 2002-2003, 2006-2007
- Fulbright Review Panel, 2006
- Academic Senate Committee on Computing, 1995-2003
- CUA Service Learning Advisory Board, 2001-2002
- CUA Faculty Conversations on Enhancing Teaching and Learning through Technology, Planning Group, 1999-2001
- CUA Initiative on Technology and Teaching, 1998-2001

### **Dept. of Library and Information Science**

- Interim Co-Chair, June 2015-August 2016.
- Appointments and Promotions Committee, 1991-
- Blended Learning Committee, spring 2016-
- Colloquium and Symposium Planning Committee, fall 2016-
- Technology Committee, fall 2016-
- Scholarship Committee, fall 2016-
- Comprehensive examination editor, 2016-2017

- LIS Advisory Board, 2015-2016 (chair); fall 2016 (member)
- Committee on Planning and Assessment, 2015-2016 (chair)
- Admissions Committee, 2007-2009, Chair 2010-2012, Member 2013-2015
- Senior Faculty Committee, 2014-2016.
- Accreditation Steering Committee, 2014-2016 (Chair, 2015-2016 )
- Accreditation Students Standard Committee, co-chair, 2014-2016
- Accreditation Mission, Goals, and Objectives Standard Committee, co-chair, 2014-2016
- Accreditation Curriculum Standard, member 2014-2-16
- Accreditation Administration and Finance Standard, member 2014-2016
- Cultural Heritage Information Management Project (IMLS-funded), Co-PI, 2012-2015
- Cultural Heritage Information Management Forum (scheduled for June 2015), Co-Organizer, 2013-2015
- Health Information Technology Interim Review Committee, 2015 (chair)
- Health Sciences Librarianship Advisory Group, 2015- (chair)
- Comprehensive examination editors, 2013-2014, 2016-2017
- National Digital Stewardship Alliance liaison, 2011-2014
- Advisory Board, Chair 2010-2012
- Academic Honesty Committee, Chair, 2008-2012
- Blended Learning Committee, 2010-2012
- Colloquium Committee, 2010-2012
- Comprehensive Examination Administration, 2010-2012
- Cultural Heritage Information Management Advisory Committee, 2010-2012 (chair), 2013-
- Curriculum Committee, 1991-2003, 2007-2009, Chair 2010-2012, member 2013-
- Curriculum Subcommittee on Comprehensive Examination, Chair 2009-2012
- Health Information Technology Advisory Board, Chair 2010-2012. Member 2013-
- Health Sciences Advisory Committee, 2009, Chair 2010-2012. Member 2013-
- HIT Expert Forum, Chair 2012. Member 2013-
- Health Information Technology Student Group Advisor, 2011-2012
- State Council for Higher Education of Virginia, SLIS Representative, 2010-2012
- Symposium Planning Committee, 2010-2012
- Website Management Team, Chair, 2010-2012
- Urban School Librarianship Project (IMLS-Funded), PI, 2007-2011 (chair, 2010-11)
- Failing Grades Committee, 1995-1997 (chair), 2000-2001 (chair), 2004-2005 (chair), 2007 (chair)-2011
- Faculty Search Committee, 1994-1998, 2002-2004, 2006 (chair), Fall 2007-2009, Chair fall 2009-2012
- Recruitment Committee, Chair 2010-2012
- Strategic Planning Committee, Chair 2010-2012
- Technology Committee, 2010-2012
- Accreditation Advisory Committee, 2007-2009
- Accreditation Coordinating Committee, 2007-2009
- Accreditation Steering Committee, 2007-2009

- SLIS Advisory Group, 2007-2009
- Accreditation Curriculum Standard Committee, Co-chair, 2007-2009
- Accreditation Faculty Standard Committee, Co-chair, 2007-2009
- LSC 551 Information Organization Review Team, Co-chair, 2008-2009, 2015-2016.
- Curriculum Subcommittee on Portfolios, 2009
- LSC 555 Information Systems in Libraries and Information Centers Review Team, contributor, 2008-2009
- Redesign of LSC 730 Use and Users of Libraries and Information. 2009-
- Development of a metadata institute that was taught as LSC 715 Organization of Internet Resources in 2008. The institute is being revised and will be offered in 2010 under a new course title.
- Development of lesson plans, assignments, and evaluation rubrics for LSC 606, Cataloging and Classification, for the School's NCATE accreditation. 2008
- Howard and Mathilde Rovelstad Scholarship Committee, Chair, 2004-2007
- Assistant Dean Search Committee, Chair, Fall 2007
- Liaison to the Association for Library Collections and Technical Services to bring its preconference program, Cataloging Education and Employer Expectations, to CUA during the 2007 American Library Association Annual Meeting in Washington, D.C.
- Organizer of the colloquium presentation and reception for Tamar Sadeh of Ex Libris on PRIMO June 2007
- Practicum review and design (work with potential supervisors, such as the American Indian Museum internship description revision) 2006-
- Comprehensive examinations (edits, proctoring, and grading), 1990-
- SLIS Web site redesign: Comments and suggestions. Fall 2007
- Conducted surveys of current students and alumni in preparation for the 2005 re-accreditation, 2004-2005
- Student advisement, 1990-
- Technology Committee, 1992-1999 (chair, 1996-1998), 2002-2003 (member)
- Colloquia Committee 1997-1999, 2002-2003.
- Advisor of the CUA Student Chapter of the American Society for Information Science and Technology, 2002-2003
- Visiting Professor Search Committee, 1999, 2000, 2001
- Leader, Participation in the CORC experiment, 1999-2000
- Advisor of the Special Libraries Association Student Chapter, 1993-1999; the group was recognized for outstanding leadership by SLA in 1999.
- COA planning Committee, Task Force on Electronic Presentation of SLIS Reports (team leader) 1997-1998
- COA Planning Committee, Subcommittee on Technology 1996-1998
- NLM practicum coordinator, 1997-1998
- Computer Literacy Workshops: Assisted with the development and evaluation of the workshops, 1996-1998
- Leader, Participation in the InterCat project, 1995-1997

# APPENDIX B

[Library of Congress](#) >> [MARC](#) >> [Understanding MARC](#)

## MARC 21 Reference Materials

[Part VII: A Summary of Commonly Used MARC 21 Fields](#)

[Part VIII: A List of Other Fields Often Seen in MARC Records](#)

[Part IX: The Leader](#)

[Part X: Field 008 for Books](#)

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### Part VII:

## A Summary of Commonly Used MARC 21 Fields

**This is a summary of the MARC 21 tags used most frequently by libraries in entering their own bibliographic records.** For full listings of all MARC 21 tags, indicators, and subfield codes, see *MARC 21 Format for Bibliographic Data*.

In the explanations on these pages:

**Tags --** The tags (3-digit numbers) are followed by the names of the fields they represent. In this summary, and in the *MARC 21 Format for Bibliographic Data*, if a tag can appear more than once in one bibliographic record, it is labeled repeatable (R). If it can only be used once, it is labeled non-repeatable (NR). For example, a catalog record can have several subjects, so the tags for subject added entries (6XX) are labeled repeatable (R).

**Indicators --** The use of indicators is explained in fields where they are used. Indicators are one-digit numbers. Beginning with the 010 field, in every field -- following the tag -- are two character positions, one for Indicator 1 and one for Indicator 2. The indicators are not actually defined in all fields, however. And it is possible that a 2nd indicator will be used, while the 1st indicator remains undefined (or vice versa). When an indicator is undefined, the character position will be represented by the character # (for blank space).

**Subfield codes --** All the data in each field (beginning with the 010 field) is divided into subfields, each of which is preceded by a delimiter-subfield code combination. The most common subfield codes used with each tag are shown. Each subfield code is preceded by the character \$, signifying a delimiter. The name of the subfield follows the code.

In general, every field **MUST** have a subfield 'a' (**\$a**). One exception that is often seen is in Field 020 (ISBN), when the ISBN information (subfield **\$a**) is unavailable but the price (subfield **\$c**) is known. Some subfields are repeatable. In this summary, repeatability is noted for only the more common repeatable subfields.

**Examples:** Examples follow the explanation for each field. For clarity, one space has been placed between the tag and the first indicator, one space has been placed between the

second indicator and the first delimiter- subfield code, and one space has been inserted between the delimiter-subfield code and the subfield data.

### 010 Library of Congress Control Number -- (LCCN)

(NR, or Not Repeatable)

*Indicators undefined.*

*Subfield used most often:*

**\$a** -- Library of Congress control number

*Example:*      010 ## \$a ###86000988#

### 020 International Standard Book Number -- (ISBN)

(R, or Repeatable)

*Indicators undefined.*

*Subfields used most often:*

**\$a** -- International Standard Book Number

**\$c** -- Terms of availability (often a price)

**\$z** -- Cancelled/invalid ISBN (R)

*Example:*      020 ## \$a 0877547637

### 040 Cataloging source -- (NR)

*Indicators undefined.*

*Subfields used most often:*

**\$a** -- Original cataloging agency

**\$c** -- Transcribing agency

**\$d** -- Modifying agency (R)

*Example:*      040 ## \$a DLC  
                              \$c DLC  
                              \$d gwhs

### 100 Main entry -- Personal name -- (primary author)

(NR; there can be only one main entry)

*Indicator 1:* Type of personal name entry element

0 -- Forename

1 -- Surname (this is the most common form)

3 -- Family name

*Indicator 2 undefined.*

Indicator 2 became obsolete in 1990. Older records may display 0 or 1

*Subfields used most often:*

- \$a** -- Personal name
- \$b** -- Numeration
- \$c** -- Titles and other words associated with a name (R)
- \$q** -- Fuller form of name
- \$d** -- Dates associated with a name (generally, year of birth)

*Example:*      100 1# \$a Gregory, Ruth W.  
                              \$q (Ruth Wilhelme),  
                              \$d 1910-

### 130 Main entry -- Uniform title -- (NR)

*Indicator 1:* Nonfiling characters

- 0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

*Indicator 2 undefined.*

Indicator 2 became obsolete in 1990. (See 100 above.)

*Subfields used most often:*

- \$a** -- Uniform title
- \$p** -- Name of part/section of a work (R)
- \$l** -- Language of a work
- \$s** -- Version
- \$f** -- Date of a work

*Example:*      130 0# \$a Bible.  
                              \$p O.T.  
                              \$p Psalms.

### 240 Uniform title (NR)

*Indicator 1:* Uniform title printed or displayed

- 0 -- Not printed or displayed
- 1 -- Printed or displayed (most common)

*Indicator 2:* Nonfiling characters

- 0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

*Subfields used most often:*

- \$a** -- Uniform title
- \$l** -- Language of a work
- \$f** -- Date of a work



**Example:**     240 10 \$a Ile mystérieuse.  
                      \$l English.  
                      \$f 1978

## 245 Title Statement (NR)

*Indicator 1:* Title added entry

(Should the title be indexed as a title added entry?)

0 -- No title added entry

(indicates a title main entry; i.e. no author is given)

1 -- Title added entry

(the proper indicator when an author given in 1XX; the most common situation)

*Indicator 2:* Nonfiling characters

0-9 -- Number of nonfiling characters present, including spaces; usually set at zero, except when the title begins with an article; e.g., for *The robe*, the second indicator would be set to 4. The letters *T*, *h*, *e*, and the space following them are then ignored in alphabetizing titles. The record will be automatically filed under "r" -- for *Robe*.

*Subfields used most often:*

**\$a** -- Title proper

**\$h** -- Medium (often used for non-book media)

**\$p** -- Name of part/section of a work (R)

**\$b** -- Reminder of title (subtitles, etc.)

**\$c** -- Remainder of title page transcription/Statement of responsibility

**Example:**     245 14 \$a The DNA story :  
                      \$b a documentary history of gene  
                      cloning /  
                      \$c James D. Watson, John Tooze.

## 246 Varying form of title (R)

*Indicator 1:* Note/title added entry controller

1 -- Note, title added entry

3 -- No note, title added entry

*Indicator 2:* Type of title

# -- No information provided

0 -- Portion of title

1 -- Parallel title

4 -- Cover title

8 -- Spine title

*Subfield used most often:*

**\$a -- Title proper**

*Example:* 246 3# \$a Four corners power review

**250 Edition statement (NR)**

*Indicators undefined.*

*Subfield used most often:*

**\$a -- Edition statement**

*Example:* 250 ## \$a 6th ed.

**260 Publication, distribution, etc. (Imprint) (R)**

*Indicator 1: Sequence of publishing statements*

# -- No information provided

*Indicator 2: Undefined*

*Subfields used most often:*

**\$a -- Place of publication, distribution, etc. (R)**

**\$b -- Name of publisher, distributor, etc. (R)**

**\$c -- Date of publication, distribution, etc. (R)**

*Example:* 260 ## \$a New York :  
\$b Chelsea House,  
\$c 1986.

**300 Physical description (R)**

*Indicators undefined.*

*Subfields used most often:*

**\$a -- Extent (number of pages) (R)**

**\$b -- Other physical details (usually illustration information)**

**\$c -- Dimensions (cm.) (R)**

**\$e -- Accompanying material (for example, "teacher's guide" or "manual")**

*Example:* 300 ## \$a 139 p. :  
\$b ill. ;  
\$c 24 cm.

**440 Series statement / Added entry--Title**

**490 Series statement** (No added entry is traced from field) (R)

0 -- Series not traced

1 -- Series traced (8XX is in record)

*Subfield used most often:*

**\$a -- Series statement (R)**

\$v -- Volume number (R)

*Example:* 490 1# \$a Colonial American craftsmen

*Indicators undefined.*

*Subfield used most often:*

**\$a** -- General note (Used when no specialized note field has been defined for the information. Examples: Notes regarding the index; the source of the title; variations in title; descriptions of the nature, form, or scope of the item.)

*Example:*     500 ##    \$a Includes index.

*Indicators undefined.*

*Subfield used most often:*

**\$a** -- Bibliography, etc. note

*Example:*     504 ## \$a Includes bibliographical  
                      references.

*Indicator 1: Type of contents note*

0 -- Complete contents

1 -- Incomplete contents (used with multivolume set when some volumes are not yet published)

## 2 -- Partial contents

*Indicator 2: Level of content designation*

```
# -- Basic
```

**\$a** -- Formatted contents note

## 520 Summary, etc. note (R)

# -- Summary

## 1 -- Review

## 2 -- Scope and content

### 3 -- Abstract

*Indicator 2 undefined*

*Subfields used most often*

**\$a** -- Summary, abstract, or annotation

**\$b** -- Expansion of summary note

**600 Subject added entry -- Personal name (R)**

*Indicator 1: Type of personal name entry element*

0 -- Forename

1 -- Surname (this is the most common form)

3 -- Family name

*Indicator 2: Subject heading system/thesaurus (identifies the specific list or file which was used)*

0 -- Library of Congress Subject Headings

1 -- LC subject headings for children's literature

## 2 -- Medical Subject Headings

3 -- National Agricultural Library subject authority file

4 -- Source not specified

## 5 -- Canadian Subject Headings

## 6 -- Répertoire de vedettes-matière

7 -- Source specified in subfield \$2

(Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield \$2.)

7 of 19

**\$a** -- Personal name (surname and forename)  
**\$b** -- Numeration  
**\$c** -- Titles and other words associated with a name (R)  
**\$q** -- Fuller form of name  
**\$d** -- Dates associated with a name (generally, year of birth)  
**\$t** -- Title of a work  
**\$v** -- Form subdivision (R)  
**\$x** -- General subdivision (R)  
**\$y** -- Chronological subdivision (R)  
**\$z** -- Geographic subdivision (R)  
**\$2** -- Source of heading or term (used with 2nd indicator of 7)

*Example:*      600 10 \$a Shakespeare, William,  
                               \$d 1564-1616  
                               \$x Comedies  
                               \$x Stage history.

*Example:*      600 10 \$a Shakespeare, William,  
                               \$d 1564-1616  
                               \$x Knowledge  
                               \$z Rome  
                               \$v Congresses.

Notice that subfields \$v, \$x, and \$z in the 600 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

### 610 Subject added entry -- Corporate name (R)

*Indicator 1:* Type of corporate name entry element

- 0 -- Inverted name (not used with AACR2)
- 1 -- Jurisdiction name
- 2 -- Name in direct order

*Indicator 2:* Subject heading system/thesaurus.

See indicator 2 under 600

*Subfields used most often:*

**\$a** -- Corporate name or jurisdiction name as entry element  
**\$b** -- Subordinate unit (R)  
**\$v** -- Form subdivision (R)  
**\$x** -- General subdivision (R)  
**\$y** -- Chronological subdivision (R)  
**\$z** -- Geographic subdivision (R)  
**\$2** -- Source of heading or term (used with 2nd indicator of 7)

*Example:*      610 10 \$a United States.  
                               \$b Army Air Forces  
                               \$v Biography.

### 650 Subject added entry -- Topical term (Most subject headings fit here.) (R)

*Indicator 1:* Level of subject

# -- No information provided

*Indicator 2:* Subject heading system/thesaurus

(identifies the specific list or file which was used)

0 -- Library of Congress Subject Headings

1 -- LC subject headings for children's literature

2 -- Medical Subject Headings

3 -- National Agricultural Library subject authority file

4 -- Source not specified

5 -- Canadian Subject Headings

6 -- Répertoire de vedettes-matière

7 -- Source specified in subfield \$2

Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield \$2.)

*Subfields used most often:*

\$a -- Topical term

\$v -- Form subdivision (R)

\$x -- General subdivision (R)

\$y -- Chronological subdivision (R)

\$z -- Geographic subdivision (R)

\$2 -- Source of heading or term used with 2nd indicator of 7)

*Example:*      650 #0 \$a Theater  
                               \$z United States  
                               \$v Biography  
                               \$v Dictionaries.

Notice that subfields \$v, \$x, and \$z in the 650 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

### 651 Subject added entry -- Geographic name (R)

*Indicator 1:* undefined.

*Indicator 2:* Subject heading system/thesaurus.

See indicator 2 under 600

*Subfields used most often:*

- \$a** -- Geographic name
- \$v** -- Form subdivision (R)
- \$x** -- General subdivision (R)
- \$y** -- Chronological subdivision (R)
- \$z** -- Geographic subdivision (R)
- \$2** -- Source of heading or term (used with 2nd indicator of 7)

*Example:*      651 #0 \$a United States  
                               \$x History  
                               \$v Chronology.

Notice that subfields \$v, \$x, and \$z in the 651 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

### 700 Added entry -- Personal name (R)

*Indicator 1:* Type of personal name entry element

- 0 -- Forename
- 1 -- Surname (this is the most common form)
- 3 -- Family name

*Indicator 2:* Type of added entry

- # -- No information provided (most common; co-authors, editors, etc.)
- 2 -- Analytical entry (The values for Indicator 2 changed in 1994 with Format Integration, and older records may display additional values. An analytical entry involves an author/title of an item contained in a work.)

*Subfields used most often:*

- \$a** -- Personal name
- \$b** -- Numeration
- \$c** -- Titles and other words associated with a name (R)
- \$q** -- Fuller form of name
- \$d** -- Dates associated with a name (generally, year of birth)
- \$e** -- Relator term (such as ill.) (R)
- \$4** -- Relator code (R)

*Example:*      700 1# \$a Baldridge, Letitia.

### 710 Added entry -- Corporate name (R)

*Indicator 1:* Type of corporate name entry element

- 0 -- Inverted name (not used with AACR2)
- 1 -- Jurisdiction name

2 -- Name in direct order

*Indicator 2:* Type of added entry.

See Indicator 2 under 700

# -- No information provided

2 -- Analytical entry

*Subfields used most often:*

**\$a** -- Corporate name or jurisdiction name as entry element

**\$b** -- Subordinate unit (R)

*Example:*      710 2# \$a Sunburst Communications (Firm)

### 740 Added entry -- Uncontrolled related/analytical title (R)

*Indicator 1:* Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

*Indicator 2:* Type of added entry. See Indicator 2 under 700

# -- No information provided

2 -- Analytical entry

(This field was redefined in 1994 with Format Integration. Prior to 1994, the field was also used for variant titles, such as a different wording on a spine title. In records created since Format Integration, those variant titles appear in a 246 field.)

*Subfield used most often:*

**\$a** -- Title

*Example:*      740 02 \$a Uncle Vanya.

### 800 Series added entry -- Personal name (R)

*Indicator 1:* Type of personal name entry element

0 -- Forename

1 -- Surname

3 -- Family name

*Indicator 2 undefined.*

*Subfields used most often:*

**\$a** -- Personal name

**\$b** -- Numeration

**\$c** -- Titles and other words associated with a name (R)

**\$q** -- Fuller form of name

**\$d** -- Dates associated with a name (generally, year of birth)

**\$t** -- Title of a work (the series)

**\$v** -- Volume number



*Example:*      800 1# \$a Fisher, Leonard Everett.  
                         \$t Colonial American craftsmen.

### 830 Series added entry -- Uniform title (R)

*Indicator 1 undefined.*

*Indicator 2:* Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

*Subfield used most often:*

**\$a** -- Uniform title

**\$v** -- Volume number

*Example:*      830 #0 \$a Railroads of America (Macmillan)

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## Part VIII:

### A List of Other Fields Often Seen in MARC Records

001	Control number
003	Control number identifier
005	Date and time of latest transaction
006	Fixed-length data elements -- additional material characteristics
007	Physical description fixed field
008	Fixed length data elements (See <a href="#">Part X</a> )
022	International Standard Serial Number (ISSN)
037	Source of acquisition
041	Language code
043	Geographic area code
050	Library of Congress call number
060	National Library of Medicine call number
082	Dewey Decimal classification number (the one recommended by the Library of Congress; locally-assigned call numbers may appear elsewhere)
110	Main entry -- Corporate name (less frequent under AACR2 rules)
256	Computer file characteristics

- 263 Projected publication date  
(indicates a CIP -- Cataloging in Publication -- record)
- 306 Playing time
- 508 Creation/production credits note
- 510 Citation/references note (review sources)
- 511 Participant or performer note
- 521 Target audience note (first indicator: 0 = reading grade level, 1 = interest age level, 2 = interest grade level, 3 = special audience characteristics, 4 = motivation interest level)
- 530 Additional physical form available note
- 538 System details note
- 586 Awards note
- 656 Index term -- Occupation
- 730 Added entry -- Uniform title
- 852 Location
- 856 Electronic location and access
- 9XX Reserved for local use. (They are used by vendors, systems, or individual libraries to exchange additional data)

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## Part IX:

### The Leader

There are 24 positions in the Leader, numbered from 00 to 23. For fuller explanation, see the *MARC 21 Format for Bibliographic Data*.

- 00-04 Record length (calculated by the computer for each record)
- 05 Record status
  - a = increase in encoding level
  - c = corrected or revised
  - d = deleted
  - n = new
  - p = increase in encoding from prepublication (previous CIP)
- 06 Type of record
  - a = language material
  - c = printed music
  - d = manuscript music
  - e = cartographic material
  - f = manuscript cartographic material
  - g = projected medium
  - i = nonmusical sound recording
  - j = musical sound recording
  - k = 2-dimensional nonprojectable graphic
  - m = computer file

- o = kit
- p = mixed materials
- r = 3-dimensional artifact or naturally occurring object
- t = manuscript language material
- 07 Bibliographic level
  - a = monographic component part
  - b = serial component part
  - c = collection
  - d = subunit
  - i = integrating resource
  - m = monograph/item
  - s = serial
- 08 Type of control
  - # = no specified type
  - a = archival
- 09 Character coding scheme
  - # = MARC-8
  - a = UCS/Unicode
- 10 Indicator count (always "2")
- 11 Subfield code count (always "2")
- 12-16 Base address of data (calculated by the computer for each record)
- 17 Encoding level
  - # = full level
  - 1 = full level, material not examined
  - 2 = less-than-full level, material not examined
  - 3 = abbreviated level
  - 4 = core level
  - 5 = partial (preliminary) level
  - 7 = minimal level
  - 8 = prepublication level (CIP)
  - u = unknown
  - z = not applicable
- 18 Descriptive cataloging form
  - # = non-ISBD
  - a = AACR2
  - i = ISBD
  - u = unknown
- 19 Multipart resource record level
  - # = Not specified or not applicable
  - a = Set
  - b = Part with independent title
  - c = Part with dependent title
- 20 Length of the length-of-field portion (always "4")
- 21 Length of the starting-character-position portion (always "5")
- 22 Length of the implementation-defined portion (always "0")
- 23 Undefined (always "0")

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## Part X:

### Field 008 for Books

Field 008 is used for Fixed Length Data Elements ("Fixed Field Codes"). There are 40 character positions in field 008, numbered from 00-39. Undefined positions must contain either a blank (#) or a fill character ( | ). Positions 00-17 and 35-39 are defined the same way for all media.

The information shown here for positions 18-34 applies only to books. For explanation of all the positions below and for positions 18-34 for other media, see the *MARC 21 Format for Bibliographic Data*.

Note that field 008 has no indicators or subfield codes.

- 00-05    Date entered on file (YYMMDD),  
          where Y=year, M=month, and D=day
- 06        Type of date/publication status:  
          b = no dates given; B.C. date involved  
          e = detailed date  
          s = single known date/probable date  
          m = multiple dates  
          r = reprint/reissue date (Date 1) and original date (Date 2)  
          n = dates unknown  
          q = questionable date  
          t = publication date and copyright date  
          | = no attempt to code
- 07-10    Date 1/beginning date of publication
- 11-14    Date 2/ending date of publication

Date fields contain the year(s) of publication. The type of date(s) in these elements are specified in fixed field element 06: Type of date/publication status. (For further details, see the field 008 description in the *MARC 21 Format for Bibliographic Data*.)

- 15-17    Place of publication, production, or execution  
          For example:  
          pk# = Pakistan  
          cau = California (US)

(For a full list of codes used in these positions, see the [MARC Code List for Countries](#).)

- 18-21    Illustrations (up to 4 codes):  
          # = no illustrations  
          a = illustrations  
          b = maps  
          c = portraits  
          d = charts

e = plans  
f = plates  
g = music  
h = facsimiles  
i = coats of arms  
j = genealogical tables  
k = forms  
l = samples  
m = phonodisc, phonowire, etc.  
o = photographs  
p = illuminations  
| = no attempt to code

22 Target audience:

# = unknown or not specified  
a = preschool  
b = primary  
c = pre-adolescent  
d = adolescent  
e = adult  
f = specialized  
g = general  
j = juvenile  
| = no attempt to code

23 Form of item:

# = none of the following  
a = microfilm  
b = microfiche  
c = microopaque  
d = large print  
f = braille  
r = regular print reproduction  
s = electronic  
| = no attempt to code

24-27 Nature of contents (up to 4):

# = no specified nature of contents  
a = abstracts/summaries  
b = bibliographies (is one or contains one)  
c = catalogs  
d = dictionaries  
e = encyclopedias  
f = handbooks  
g = legal articles  
i = indexes  
j = patent document  
k = discographies  
l = legislation  
m = theses

n = surveys of literature  
o = reviews  
p = programmed texts  
q = filmographies  
r = directories  
s = statistics  
t = technical reports  
u = standards/specifications  
v = legal cases and notes  
w = law reports and digests  
z = treaties  
| = no attempt to code

28 **Government publication:**

# = not a government publication  
i = international intergovernmental  
f = federal/national  
a = autonomous or semi-autonomous component  
s = state, provincial, territorial, dependent, etc.  
m = multistate  
c = multilocal  
l = local  
z = other type of government publication  
o = government publication -- level undetermined  
u = unknown if item is government publication  
| = no attempt to code

29 **Conference publication:**

0 = not a conference publication  
1 = conference publication  
| = no attempt to code

30 **Festschrift:**

0 = not a festschrift  
1 = festschrift  
| = no attempt to code

31 **Index:**

0 = no index  
1 = index present  
| = no attempt to code

32 **Undefined (since 1990)** (Earlier records may contain the values 0 or 1)

# = Undefined  
| = no attempt to code

33 **Literary form:**

0 = not fiction (not further specified)  
1 = fiction (not further specified)  
c = comic strips  
d = dramas  
e = essays  
f = novels

h = humor, satires, etc.

i = letters

j = short stories

m = mixed forms

p = poetry

s = speeches

u = unknown

| = no attempt to code

34 **Biography:**

# = no biographical material

a = autobiography

b = individual biography

c = collective biography

d = contains biographical information

| = no attempt to code

35-37 **Language:**

A three-letter code. For example: eng fre ger spa rus ita

(For a full list of codes used in these positions, see the [MARC Code List for Languages](#).)

38 **Modified record:**

# = not modified

x = missing characters (because of characters unavailable in MARC character set)

s = shortened

d = "dashed-on" information omitted

r = completely romanized/printed cards in script

o = completely romanized/printed cards romanized

| = no attempt to code

39 **Cataloging source:**

# = national bibliographic agency

c = cooperative cataloging program

d = other sources

u = unknown

| = no attempt to code

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**Library of Congress**

*Library of Congress Help Desk* ( 10/27/2009 )



# APPENDIX C



University Libraries

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Database	Search	Headings	Titles	Patron	Login	Request	History	Help
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Database Name: George Mason University

Search Request: Left Anchored Title = HTML5 mastery semantics standards

Search Results: Displaying 2 of 2 entries

Bibliographic	Holdings	MARC format
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***HTML5 mastery : semantics, standards, and styling / Anselm Bradford, Paul...*****000** 00929cam a2200301la 450**001** 2516082**005** 20120416121116.0**008** 110825s2011 xx a 001 0 eng d**035** \_\_ **|a** (OCoLC)ocn748329596**040** \_\_ **|a** BTCTA **|b** eng **|c** BTCTA **|d** OCO **|d** YDXCP **|d** BWX **|d** CDX **|d** E7B**020** \_\_ **|a** 9781430238614 (pbk.) : **|c** \$39.99**020** \_\_ **|a** 1430238615 (pbk.) : **|c** \$39.99**024** 8\_ **|a** 40020561245**035** \_\_ **|a** (OCoLC)748329596**050** \_4 **|a** QA76.76.H94 **|b** B73 2011**092** \_\_ **|a** 651.8424 **|b** H9983v5, B799h**049** \_\_ **|a** VGMM**100** 1\_ **|a** Bradford, Anselm.**245** 10 **|a** HTML5 mastery : **|b** semantics, standards, and styling / **|c** Anselm Bradford, Paul Haine.**260** \_\_ **|a** [S.l.] : **|b** Friends of ED, **|c** c2011.**300** \_\_ **|a** xx, 293 p. : **|b** ill. ; **|c** 24 cm.**500** \_\_ **|a** Includes index.**650** \_0 **|a** HTML (Document markup language)**650** \_0 **|a** Web sites **|x** Design.

**700** 1\_ **|a** Haine, Paul.

**981** \_\_ **|b** YBP10 **|c** ordr fen

**980** \_\_ **|b** 32.15 **|g** 1

**994** \_\_ **|a** 92 **|b** VGM

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Record Options	
Select Download Format	<input type="button" value="Full Record"/> <input type="button" value="Format for Print/Save"/>
Enter your email address:	<input type="text"/> <input type="button" value="Email"/>

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University Libraries

# APPENDIX D

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&lt;

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&gt;

BOOK

# HTML5 mastery : semantics, standards, and styling

[Full Record](#)[MARC Tags](#)

000	01152cam a22003017a 4500
001	17251139
005	20120622103327.0
008	120411s2011 nyua 001 0 eng d
906	—  a 7  b cbc  c copycat  d 2  e ncip  f 20  g y-gencatlg
925	0_  a acquire  b 2 shelf copies  x policy default
955	—  b xh12 2012-04-11 z-processor  i xh12 2012-04-12 to Dewey  w rd07 2012-06-22
010	—  a 2012392293
020	—  a 9781430238614 (pbk.)
020	—  a 1430238615 (pbk.)
035	—  a (OCoLC)ocn748329596
040	—  a BTCTA  b eng  c BTCTA  d OCO  d YDXCP  d BWX  d CDX  d E7B   d DLC
042	—  a lccopycat
050	00  a QA76.76.H94  b B768 2011
082	00  a 006.7/4  2 23
100	1_  a Bradford, Anselm.
245	10  a HTML5 mastery :  b semantics, standards, and styling /  c Anselm Bradford, Paul Haine.

260     —     |a [New York?] : |b Friends of Ed ; |a New York : |b Distributed to the  
book trade worldwide by Springer Science + Business Media,, |c c2011.

300     —     |a xx, 293 p. : |b ill. ; |c 24 cm.

500     —     |a Includes index.

650    \_0     |a HTML (Document markup language)

650    \_0     |a Web sites |x Design.

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