



ALA ALCTS Cataloging and Classification Research Interest Group Meeting



Expanding the Metadata Librarian Horizon: Reflections on the Metadata Practices in the Web and Digital Repositories

Sai Deng, University of Central Florida Libraries

Digital Repository, the Web and KOSs

- *Systems of Knowledge Organization for Digital Libraries: Beyond Traditional Authority Files*, by Gail Hodge. Copyright 2000 by the Council on Library and Information Resources.
- **Types of Knowledge Organization Systems (KOSs):**

Term Lists

Authority files,
Glossaries, Dictionaries,
Gazetteers

Classifications and Categories

Subject headings,
Classification schemes, Taxonomies,
Categorization schemes

Relationship Lists

Thesauri, Ontologies,
Semantic networks

- **Linking Digital Library Resources to Related Resources**
- **Making Resources Accessible to Other Communities** (see graph)
- **Implementing Knowledge Organization Systems:**
 - Making the Link (DL-KOS): metadata; text analysis

alternate Subject Access
expanding free-text search terms
mapping
multiple schemes
indexing
multilingual
graphical
geospatial
textual
new modes

Environmental Scanning of Authority Control in Digital Repositories

The background of the slide features a soft-focus image of several hot air balloons in various colors (yellow, orange, blue, and red) floating over a green field under a pale sky. The balloons are of different sizes and are scattered across the upper half of the frame.

- Problems in name authority control in institutional repositories. (Salo, Dorothea. 2009)
- FAO's Survey Open Access Repositories in the Agricultural Domain (2009-2010): Only 40% is using some sort of authority control, especially for Journal titles.
- Survey of ARL-member institutions: Despite the system challenge, half use LCNAF in some capacity (Goslen, Anna S. 2011)
- Western Name Authority File Project: Authority Control for Digital Collections Survey, 2016.



Name Disambiguation: Authority Control & Identity Management

- **Name Disambiguation**

- Manual disambiguation (e.g., LCNAF);
- Author registry site;
- Automatic name disambiguation.

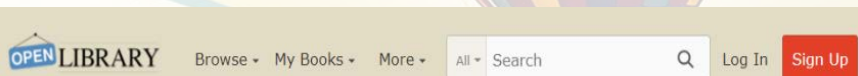
(Elliott, Sarah. Survey of Author Name Disambiguation: 2004-2010)

- **Identities:** Scopus author identifier and profile, VIAF, ISNI, ResearcherID, ORCID, Worldcat identities...

- **Shifting from Authority Control to Identity Management**

(Identity Management or Authority Control? Liss, 2017 ALA Annual)

Engaging User Interfaces Using Author Information



Good news! Starting February, the grace period for redeeming waitlisted books will increase to 48 hours.

Emily Dickinson

10 December 1830 - 15 May 1886.

Emily Dickinson was an American poet. Born in Amherst, Massachusetts, to a successful family with strong community ties, she lived a mostly introverted and reclusive life. After she studied at the Amherst Academy for seven years in her youth, she spent a short time at Mount Holyoke Female Seminary before returning to her family's house in Amherst. Thought of as an eccentric by the locals, she became known for her penchant for white clothing and her reluctance to greet guests or, later in life, even leave her room. Most of her friendships were therefore carried out by correspondence. ([Source](#).)

Last edited by [Clean Up Bot](#)
May 16, 2017 | [History](#)

Edit



160 works [Add another?](#)

Most Editions | [First Published](#) | [Most Recent](#) | Everything | Ebooks | Print Disabled



Collected poems of Emily Dickinson

by Emily Dickinson

149 editions (15 ebooks) - first published in 1890

Read



Letters of Emily Dickinson

by Emily Dickinson

19 editions (1 ebook) - first published in 1894

Read

SUBJECTS

[Accessible](#)
[Archive](#)
[American Literature](#)
[Children's Fiction](#)
[Ma American Literature](#)
[Textual Crit](#)
[Translation](#)
[Frisian](#)
[Tra Translation](#)
[Spanish](#)

PEOPLE

[Emily Dickinson](#)
[Dickinson, Emily](#)
[Huntinton](#)
[Barnet](#)
[19](#)

2 Lists

Add to List

[Favorite American Authors](#)
from [Deana Drake](#)

[Favorite American Authors](#)
from [Deana Drake](#)

Links (outside Open Library)

- [VIAF ID: 31995584](#)
- [Wikidata](#)

Alternative names

- Emily Elizabeth Dickinson
- Dickinson, Emily, 1830-1886.
- Emily Dickinson (1830-1886)



Name:

Search

Top 100 Identities

Aristotle Asimov Augustine Austen Bach Balzac Beethoven Bloom Brahms Bush Cervantes Saavedra Charles I Chaucer Chopin Christie Cicero Clinton Columbus Conrad Dante Alighieri Debussy Dickens Disney Dostoyevsky Doyle Dumas Dvorák Eliot Faulkner Fielding Franklin Freud Goethe Grimm

Christ Joyce Kant
Mozart
Shakespeare Shaw



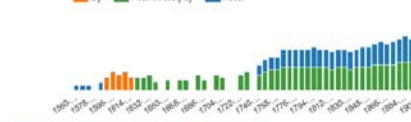
Shakespeare, William 1564-1616

Overview

Works: 91,674 works in 313,712 publications in 102 languages and 5,420,712 library holdings
Genres: Drama Film adaptations History Tragedies (Drama) Comedy plays Criticism Interpretation, etc Television adaptations Juvenile works Outlines and synopses Historical drama
Subject Headings: Dramatists, English--Early modern Dramatists, English Authors, English
Roles: Author Biographic antecedent Other Lyricist Librettist Honoree Creator Contributor Dedicatee Composer Arranger Illustrator Originator Conceptor Editor Author in quotations or text abstracts Artist Narrator Adapter Author of introduction Dubious author Attributed name Translator alt Author of dialog DOI Performer, lead Production personnel Compiler Responsible party, lead
Classifications: PR3C25 A2 B22 33

Publication Timeline

By Posthumously By About



Most widely held works about William Shakespeare

- Tales from Shakespeare by Charles Lamb (book)
- Hamlet by William Shakespeare (visual)
- Shakespearean tragedy: lectures on Hamlet, Othello, King Lear, Macbeth by A. C. Bradley (book)
- Romeo and Juliet by William Shakespeare (visual)
- The taming of the shrew by William Shakespeare (visual)

Most widely held works by William Shakespeare

The tragedy of Romeo and Juliet by William Shakespeare (book)
5,180 editions published between 1 and 2016 in 57 languages and held by 33,223 WorldCat member libraries worldwide
Presents the original text of Shakespeare's story side by side with a modern version
The merchant of Venice by William Shakespeare (book)

Related Identities

- Hamlet (legendary character) [↗](#)
- Macbeth King of Scotland active 11th century [↗](#)
- Leir King of England (legendary character) [↗](#)
- Romeo VI King of England 1367-1413 [↗](#)
- Shakespeare, William Other: Introduction Author Contributor Editor [↗](#)
- Works, Stanley 1936- Other: Editor Author of introduction Publishing director Author Contributor C [↗](#)
- Caesar, Julius [↗](#)
- Romeo V King of England 1387-1422 [↗](#)
- Romeo VI King of England 1421-1421 [↗](#)
- Juliet (Fictional character) [↗](#)

Useful Links

- Library of Congress Authority File (English)
- Virtual International Authority File
- Internet Archive Shakespeare
- Wikidata

Associated Subjects

Aging parents Antares, Alcanor, Ascalon, Ascalon, Ascalon, Ascalon Brothers
Cleopatra--Queen of Egypt Conspiracies
Fathers and daughters
Italy--Verona Jews Juliet--(Fictional character)
Lear,--King of England (Legend)

[Open Libraries Author Page](#)

[WorldCat Identities](#)



Subjects & Keywords: Debate on the Use of Controlled Vocabularies

- **Information retrieval research** shows that the use of CVs does not improve precision and recall;
- **Indexing researchers** show that CV usage can improve indexing consistency.
- **This study found that: LCSH works best for topical terms; Bio thesaurus ITIS works better for scientific terms.**

(White, Hollie. Examining scientific vocabulary: Mapping controlled vocabularies with free text keywords, 2013.)

- **User search query compared with FAST terms and legacy keywords in the IR: FAST terms match better.**
(Hanrath & Radio. 2016)
- **Researchers assign subject/keyword metadata to their own materials in IRs; Tagging**
- **Advantage of controlled vocabularies lies in linked data?!**
- **The web's impact to library practices and digital repositories: BIBFRAME! What about digital repositories**



What about the Web: Metadata & Text Analysis

- **Web archiving: Capturing E-Publications of Public Documents (CEP); SWISH-E based IGI search engine**
 - **Illinois Subject Tree, Metadata Generator available**; worked as RA;
 - **Author generated metadata is rare, supplement with:**
 - Inclusion of plain-text; extraction of noun phrases; knowledge of the ownership of the website; collection level metadata; classifier program for assigning subject classifications (Jackson, 2005)
 - **Automatic subject heading assignment** for online government publications using a semi-supervised machine learning approach. (Hu, X., Jackson, L., Deng, S. and Zhang, J., 2006.)
- **“Making the link”**: metadata; machine learning, natural language processing...
- **Learn about web technology, web standards**: HTTP, RDF, URIs...
- **Search engine optimization and digital repositories**



What about the Web: IR Working w/ Search Engines

- **Google's ranking algorithm:** PageRank; RankBrain
- **Google Scholar:** "Rank documents the way researchers do"
 - **Author page:** created for authors
 - Name, position, email, research interest, **publications** (title, author, journal name, volume, issue, year), **cited by** (Citations, h-index, i10-index), Co-authors
 - Author has no unique alphanumeric identifiers; use **statistical model** to try to tell authors apart; author mediation
- **IR Content Discovery:** Provide metadata structured according to **Google Scholar guidelines** can greatly improve the indexing ratio of IR content; transform Dublin Core to **High Wire Press tags** and include as meta tags in html (Arlitsch & O'Brien)

What about the Web: Get Metadata to be Understood by Search Engines

- **Schema.org:** a set of extensible schemas that enable webmasters to embed **structured data** to web pages for use by search engines and other applications.
 - Created by search engines (Google, Bing, Yahoo)
 - **Schema.org vocabulary** (entities, actions, relationships)
 - **Extensions**
 - **Bibliographic Extension** (<http://bib.schema.org/>)
 - **Extend Schema.org to represent archives** (<https://archival.github.io/schema-org/>)
- **Schema.org, Libraries & Digital Repositories:** Get metadata to be understood by search engines
 - WorldCat, Europeana, Islandora...

Changing Digital Repositories

Islandora

- Open source. Supports Dublin Core, MODSXML, MADS, METS, PREMIS...
- Authority Control in Islandora 7.x: **Entities Solution Pack**
 - **Entities:** Person, place, event, organization;
 - Entities created in **MADS** or **EAC-CPF**;
 - Build departmental directories and faculty profiles;
 - [Islandora FLVC](#): Some institutions populated author and department names (w/ basic authority control)
- **Integrated doi** (batch ingest module), **ORCID**.
- **Subject:** authority can be defined, e.g., <Subject authority="LCSH"...>
 - [FSU DigiNole case](#): local script to reconcile and add subjects to MODS records (Miguez, 2017)
- **Google Scholar tags** added to citation object's page; **schema.org tags** added to metadata fields

CONTENTdm

- Proprietary. Supports DC, XML.
- **Support multiple controlled name& subject vocabularies and thesauri:**
 - AAT, TGN, TGM, ULAN...
 - LCSH, FAST not included;
 - CVs can only be chosen when first establishing a field; local terms can be added, but not separated from controlled lists; validation enforced

Changing Digital Repositories

Islandora Collection Example

SORT RESULTS BY:

- Title
- Author
- Date
- ID
- Relevancy
- Date Created

NARROW RESULTS BY:

Topical Subject

- African Americans (96) ±
- Collectibles (88) ±
- Black Americana (87) ±
- Blacks (78) ±
- African Americans in art (59) ±
- Show more

Collection

- African American Legacy - The Carol Mundy Collection 1794-2010 (121) ±
- Civil War (34) ±

Geographic Subject

- United States (25) ±
- New York (N.Y.) (18) ±
- New York County (N.Y.) (10) ±
- Durham (N.C.) (3) ±
- New York (3) ±
- Show more

Temporal Subject


- Civil War, 1861-1865 (21) ±
- 19th century (7) ±
- 1901 (6) ±
- 1940s (6) ±


Current Search: [African American Legacy - The Carol Mundy Collection 1794-2010](#) (x)


View All Items

(1 - 20 of 121) [Collection home](#)

1 2 3 4 5 ... [next >](#) [last >>](#)

	Title	"Deed Child's, I's didn't know you's was dare."
	Creator	Ingersoll, T. W. (Truman Ward)
	Date Created	1898
	Identifier	DP0015452
	Format	Image (JPEG)
	PURL	http://purl.flvc.org/ucf/fd/DP0015452

	Title	"Deed, I dun eat no chicken".
	Date Created	1898
	Identifier	DP0015453
	Format	Image (JPEG)
	PURL	http://purl.flvc.org/ucf/fd/DP0015453

	Title	"Deed, I dun eat no chicken".
	Date Created	1898
	Identifier	DP0015454
	Format	Image (JPEG)
	PURL	http://purl.flvc.org/ucf/fd/DP0015454

Discovery/Display (MODS granularity)

Narrow Results by Facets: Topical/geographic/temporal subjects, Genre, Type, Creator, Format...

CONTENTdm Collection Example

Digital Collections Home **Browse This Collection** **Civil War Home** [Log in](#) [Favorites](#) [Help](#)

Search [within results](#) [Search](#) [Advanced Search](#)

Add or remove other collections to your search:

- ☒ Civil War
- ☐ African American Legacy - The Carol Mundy Collection
- ☐ Central Florida Memory
- ☐ Dick Pope Sr. Institute for Tourism Studies
- ☐ Digital Library of the Caribbean
- [Show 12 more](#)

Narrow your search by:

Subject





- united states -- history -- civil war, 1861-1865 (20)
- new york (n.y.) -- newspapers (10)
- new york county (n.y.) -- newspapers (10)
- african americans -- portraits (3)
- black women (3)
- civil war -- pictorial works (3)
- periodical illustrations (3)
- women, black, in art (3)
- african americans -- pictorial works (2)
- american literature -- 19th century -- periodicals (2)

[more](#)

Browsing items in: Civil War

Sort by: [Title](#) [Display Options](#) [Save to favorites](#)

Display: 20

Thumbnail	Title	Date Original	Description	Collection
	1859 Florida Court Indictment	1859-01-21	1859 Florida Court Indictment reads: "To J. N. Butler, We recommend you to appear before the Judge of our Circuit Court for the County of Jackson, in the Western Circuit of the State aforesaid, at the Court House in Marianna, on the first Monday in..."	Civil War
	"Traveling in state". General Burnside road from New B. Beaufort, N. C.			
	A narrative of the campaign in the valley of the Shenandoah, in 1861			
	Campaign: it includes a map of Shenandoah Valley in 1861 and a portrait of Robert			

Changing Digital Repositories

Islandora

- **Linked Data:** Effort in mapping MODS to RDF. Fedora 4, LDP implementation; Islandora CLAW
- **Cases:**
 - [TU Delft repository example: Colonial Architecture](#) (Delftdora module, Fedora 3)
 - [A Lightweight Structured Data Implementation Using JSON-LD and Schema.org for Digital Repository](#) (Mak et al.)
- **My own experience:**
 - Data mapping, transformation, Notepad++ text editor. [Metadata migration to Islandora: Is there an easy way?](#) 2014.
 - Standards implementation. [Applying RDA to CONTENTdm & Islandora](#). 2015.

CONTENTdm

- **Linked data experiments:**
 - Not inside the system, but work on exported data.
 - **UIUC.** Challenges of Mapping Digital Collections Metadata to Schema.org (Lampron et. al. 2016.)
 - **OCLC& CONTENTdm.** Metadata Refinery, transforms CONTENTdm metadata to Linked Data, 2016. Not yet scalable. (Washburn et al. 2016.)
- **My own experience:**
 - Used a mixture of terms from id.loc.gov (text only) and local.
 - Reconcile certain fields (e.g., advisor) in exported datasheet against LC authorities in OpenRefine.

Changing Digital Repositories

DSpace


- Open source. Supports Qualified DC, can export to METS, MODS...
- DSpace 6.x, XMLUI (Manakin), JSPUI.
- **Metadata Registry:** Default registry (DC, DCTERMS); Local Metadata Registry.
- **Authority control & Identity Management**
 - Can be enabled in configuration;
 - CVs in form fields; in separate XML files;
 - Authority key; ORCID integration.
- dc.subjects doesn't enforce control; supports some specific vocabularies (e.g., SRSC); has dc.subject.lcsh field
- Usage analysis via plug-in, SEO

Digital Commons

- Proprietary. Supports qualified DC.
- **Authority Control & Identity Management**
 - **Author:** author names entered as they appear in email or source; include name, email and institution
 - **Author merge tool**
 - **DOI and ORCID integration**
- **Subject:** built-in Discipline thesaurus; only has Keywords field, can request to add subject field, but not included in browsing/ facets
- **Some features:** Impact & Analytics map, improved SEO

DSpace

Author Page Example

- 

Thong, James Y L (湯永亮)

» Michael Jebson Professor of Business, Dept of Information Systems
» Chair Professor, Dept of Information Systems, Business Statistics

Telephone: (852) 2358 7723 Email: jthong@ust.hk
Homepage: <http://jthong.people.ust.hk/>
Scopus: 7006658274 Google Scholar: [sLHqjN2Hw8C](https://scholar.google.com/citations?hl=en&user=sLHqjN2Hw8C) ResearcherID: [li/hong](https://www.researcherid.com/profile/li/hong)
» Co-authorship graph

Publications | **Bibliometrics** | **Research Interests**

Summary

	Total	Article	Conference paper	Book chapter
All publications	75	47	23	
HKUST affiliated	62	42	16	

Limit to
Format:
Any format

Affiliation:
All
HKUST Only
Non-HKUST

Year of Publication:
From: To:

Sort by:
Year Descending

Go

Publication List
Showing 1 - 20 of 75 (0 seconds)
Export 0 items: () Export all) to:

Article

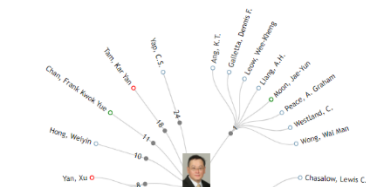
 - Winning Back Technology Disa
Author(s): Xu, Xin ; Thong, J
Source: Journal of Management Information Systems, 2017
 - Effects of animation on attention
Author(s): Cheung, Muller Y, M
Source: Journal of the Association for Information Systems, 2017
 - Managing Citizens' Uncertainty
Author(s): Venkatesh, Viswanath
Source: Information Systems Research, 2016

Scholar profile example

Scopus, Google Scholar, ResearchID, ORCID; publication timeline, publication list, bibliometric...

HKUST Co-authorship Graph

Thong, James Y L Department: ISOM Total co-authors: 27 Total publications: 75 Year: 1993 - 2017 Co-author List by: Name Publications



HKUST Faculty Members

Digital Commons

Author Page & Record Examples

- **UCF Author/contributor Linked Data**

Browse

- Disciplines
- Authors

Author Corner

Author FAQ

Links

Sponsored by the University of Central Florida Libraries
A Technology Fee funded project

Solid Waste Resource Report Dekalb County Georgia

[Ivan Ray Dory, University of Central Florida](#)

Keywords
Waste recycling, Refuse and refuse disposal, C...

Abstract
A study was made of the feasibility of r from the solid wastes of an urban com existing solid waste management practi of future waste quantities and composi the art of recovering resources from so systems could be developed for the Co a lost year for three alternative syste cost alternative. In that no markets for a costs which may be applicable to the la current costs, the cost of Resource Re landfilling. Recommendations are for the provisions for future development of a s in the meantime they should pursue their Sanitary Landfill.

Graduation Date
1976

Advisor
Yousef, Yousef A.

Degree
Master of Science (M.S.)

College
College of Engineering

Format
PDF

Pages
xL 125 pages

Language
English

Rights
Public Domain

Length of Campus-only Access
None

Access Status
Masters Thesis (Open Access)

Identifier
DP0012115

Subjects
Recycling (Waste, etc.), Refuse and refuse i

STARS Citation
Dory, Ivan Ray. "Solid Waste Resource Report Retrospective Theses and Dissertations. 211. [http://stars.library.ucf.edu/stars/211](#)"


Contributor (Linked data)
[Yousef, Yousef A.](#)

[University of Central Florida, College of Engrt](#)

Collection (Linked data)
[Retrospective Theses and Dissertations](#)

SelectedWorks Author Page

Author bio, follow/contact; list of works, by category, feed...



Sai Deng
Minister's Librarian

[Follow](#)
[Contact](#)

Sai Deng is the Dekalb's Librarian at the University of Central Florida. She provides access to the university libraries' digital collections and makes them available online to the public. Through innovative virtual work, including subject disciplines, across a range of research, subject analysis, authority control and quality assessment. She's involved in project management and workflow development for digital collections. She has extensive understanding with digital collections, Special Collections and end-user services, as well as other advanced tools and technologies.

Books | All

Showing 1 Category =

Search results for Sai Deng

Metadata, Cataloging, Classification and Text Analysis

Virtual Cataloging for the ALCTS TIGIAL Interest Group Meeting Download	Presentation Overcoming the Challenges of Implementing Standardized Metadata Practices in a Small Academic Library Download
Presentation Going into the University Knowledge Community: Adapting the Expanded Role Download	Presentation A Southern Chinese city through the eyes of a British Download

“Linked data” fields

Contributor (Linked data)
[Yousef, Yousef A.](#)

[University of Central Florida, College of Engineering](#)

Collection (Linked data)
[Retrospective Theses and Dissertations](#)

Changing Digital Repositories

DSpace

- **DSpace Linked Data support spans all three Layers:**
“the storage layer with a **triple store**, the business logic with classes to **convert** stored contents into RDF, and the application layer with a module to **publish** RDF serializations.”
(Donohue, DSpace documentation)
- **Discovery/Display:**
 - **Browse by** communities, collections, date, authors, titles, **subjects**, type;
 - Author, subject, date **facets**.
- **My past experience at WSU** (in interface, data repurposing, transformation and transfer):
 - [Building Collections in IRs from External Data Sources](#)
 - [Enhancing workflow through batch import from Excel to DSpace; Customized mapping and metadata transfer from DSpace/SOAR to OCLC and Voyager](#)
 - [Building New Interfaces for Shocker Open Access Repository](#)

Digital Commons

- **Linked data:** Allow to add extra fields for links (not RDF)
- **Discovery/Display:**
 - **Browse by** collections, **disciplines**, authors;
 - Discipline, keyword, year, type **facets**;
 - **Exhibit-like presentation**;
 - Included in **Bepress’ networks** (e.g., Digital Humanities Commons).
- **Our experience:**
 - Include links (id.loc.gov, viaf.org) in added additional fields for author, advisor, department names etc.;
 - [Preparing for linked data in digital repositories.](#)
 - Data (in spreadsheet) cleanup and reconciliation using OpenRefine;
 - Verifying author names (challenging): Google, university and departmental websites, publications, CV...

Changing Digital Repositories

Omeka

- Open source web publishing platform. Supports Dublin Core. Can export METS, dc-rdf, json etc.
- **Subject** field not enforced; has additional tag feature.
- **Browse/Discovery:**
 - Terms can be accessed via clicking tags in the record;
 - Browse by tag (word cloud);
 - Browse items/collections/exhibits;
 - Collection tree
- **Plug-ins:**
 - Import from Dropbox, YouTube; CSV batch import
 - [LC Suggest \(plug-in\)](#)
 - [User Profiles \(plug-in\)](#)
 - [Ozmeka \(plug-ins\)/ Omeka linked data](#)
- My own experience: [CALASYS](#) (as a CALASYS Group member)



[About](#) [Browse Items](#) [Browse Collections](#) [Help / FAQ](#) [Browse Exhibits](#) [Collection Tree](#) [Contact Us](#) [Contribute an](#)

BROWSE ITEMS

[Browse All](#) [Browse by Tag](#) [Search Items](#)

Article Photos Video Event Brochure Poster Report Discovery System Services and Tools Online Tutorial Distance Learning Tagging OPAC
Bibliography Information Organization Linked Data Presentation Digital reference Survey report Chinese immigrants East Asian Publications Chinese
Studies Library Services Academic Libraries T. H. Tsien
Association CALA 10th anniversary issue CALA presidents GALA timeline GALA members CALA initiatives CALA
Chapters CALA membership Annual program CALA bangpai Hua ren lu shu guan yuan xie hui Organizational history Research services Resear
eteyline Scholarly services Library services to researchers UCF Facebook WeChat YouTube statistics analysis Technical analysis Newsletter
Organizational newsletter Publicity Chinese culture China through American eyes China through Western eyes Chinese people UCF Libraries
Special Collections & University Archives CALA Southeast Chapter 2016 Fall Program (Orlando) Chinese collections Eling O. Eide Charitable
Foundation Eling O. Eide Center Asian Collections Canton Qing dynasty Mogao Grottoes Mogao Caves (Dunhuang Mogao Ku Chinese heritage
African Americana Book Arts & Typography Caribbean West Indies Florida Travel & Tourism University Archives Institutional Repositories Open
Access Copyright Virtual reference Chat Remote reference Library technologies Web-scale discovery tool Text generation catalog Discovery tool
Information Literacy Information Institutions Educational Institutions Library Studies Other Domains Metadata Global access and discovery

**Browse
by Tag**

Various Approaches in Authority Control/Identity Management/Discovery etc.

- **System approach:** Develop new functionality; develop extensions and plug-ins; collaboration
- **Institutional approach:**
 - e.g., Name Authority Control: An institutional repository approach (Waugh, 2013)
- **Regional approach,** e.g., [Western Name Authority File Project](#)
- **National and International approach,** e.g., WorldCat Identities, VIAF, ISNI...
- **Individual reflection:**
 - Being a cataloger means to be not only a guardian of principles and standards but also a knowledge organizer, collaborator, researcher and an innovative and curious-minded lifelong learner (Diao & Hernandez. 2014)

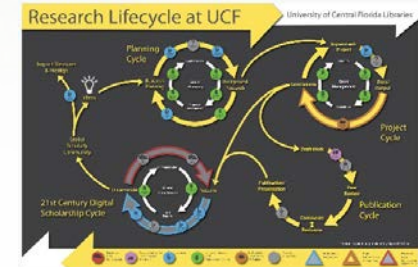
A background image showing several hot air balloons of various colors (orange, yellow, blue, red) floating in a clear sky. The balloons are scattered across the upper half of the slide, with some appearing larger and more detailed than others. The overall scene is bright and airy.

Some Discussions

- **A *Very Basic Understanding of the Big Environment (Broaden your horizon)**
 - How to organize knowledge and information? How does search work in various platforms and the web?
 - **Knowledge Organization Systems (KOSs); Every DL uses one or more KOS.**
 - **Primary applications:** Indexing, browsing, searching DLs
 - **Other applications:** Automatic annotation/indexing of contents/documents, automatic classification of contents/documents, developing Concept Space and ontologies for enhanced browsing/navigation, interoperability among DLs, linked data creation, publication venue authority control, visualization for browsing...
 - **Additional applications:** Automatic query expansion, Search Term Recommendation (STR) System (Sunny, TISS. Application of Traditional Knowledge Organization Systems in Digital Libraries: A Study on Current Status. Tata Institute of Social Sciences)
- **Understanding of Metadata and the Profession**
 - The Evolving Role of the Metadata Librarian: Competencies Found in Job Descriptions (Han& Hswe, 2010)
 - Metadata standards, schemas, vocabularies... “What then?”
 - While users and authors can contribute metadata, do Metadata Librarians have values to add? What are those values?

In addition...

- **Metadata Services is defined as:** Providing metadata consultation and assistance to university faculty and students in their research lifecycle.
- [The Research Lifecycle at UCF](#)
 - Sub-cycles: the Planning cycle, the Project cycle, the Publication cycle, the 21st century digital scholarship cycle
 - Dataset Metadata and Metadata Services
- **Challenges and Opportunities for Metadata Services**
 - [Connecting the dots: Defining scholarly services in a research lifecycle model](#), 2013.
 - [Diving into the University Knowledge Community](#), 2017.





Final Thoughts

- **Open mindset**
- **Learn new knowledge, information and skills**
 - Possible areas: vocabulary management, document encoding, data processing;
 - Learn some basic skills in working with data: XML, XSLT, RDF...
 - Learn to use tools, e.g., semi-automatic metadata editing tools: MarcEdit, Notepad++, OpenRefine...
 - Think out of the box: what can we learn from the web practices?
- **Be flexible and collaborative**
 - Flexible in working with different systems;
 - Collaborate with people beyond cataloging/metadata, Technical Services, your own library and the library field.

References and More Reading

- Archives and Linked Data Interest Group. (2017). Schema.org and Schema Architypes for linked archival description. Retrieved January 10, 2018 from <https://archival.github.io/schema-org/>
- Arlitsch, K. & O'Brien, P. (2013). Improving the visibility and use of digital repositories through SEO: A LITA guide. ALA Neal-Schuman. Retrieved January 10, 2018: <https://dl.acm.org/citation.cfm?id=2509707>
- Bepress. SelectedWorks guide for authors. Retrieved January 10, 2018: https://www.bepress.com/reference_guide_sw/selectedworks-guide-authors/
- Chinese American Librarians Association. CALASYS - CALA Academic Resources & Repository System. Retrieved January 10, 2018: <http://ir.cala-web.org/>
- CONTENTdm. Resources. Retrieved January 10, 2018: <https://www.oclc.org/en/contentdm/resources.html>
- Diao, J. L. & Hernandez, M. A. (2014). Transferring cataloging legacies into descriptive metadata creation in digital projects: Cataloger's perspective. *Journal of Library Metadata*, Volume 14, 2014 - Issue 2. Retrieved January 10, 2018: <https://doi.org/10.1080/19386389.2014.909670>
- Digital Commons: Three-Tiered Taxonomy of Academic Disciplines. Retrieved January 10, 2018: https://www.bepress.com/reference_guide_dc/disciplines/
- DSpace: Authority Control of Metadata Values. Retrieved January 10, 2018: <https://wiki.duraspace.org/display/DSDOC6x/Authority+Control+of+Metadata+Values>
- DSpace: Linked (Open) Data. Retrieved January 10, 2018: <https://wiki.duraspace.org/display/DSDOC6x/Linked+%28Open%29+Data>
- Elliott, S. (2010). Survey of author name disambiguation: 2004-2010. *Library Philosophy and Practice* 2010 November. Retrieved January 10, 2018: <http://www.webpages.uidaho.edu/~mbolin/elliott.htm>
- FAO. Survey open access repositories in the agricultural domain. Retrieved January 10, 2018: <http://aims.fao.org/advice/open-access/survey>
- Google Scholar. Retrieved January 10, 2018: <https://scholar.google.com/>
- Goslen, A. S. (2011). Name authority control in institutional repositories and its relationships to metadata quality. Retrieved January 10, 2018: <https://cdr.lib.unc.edu/record/uuid:855b470a-dd7d-40a8-86fc-9dba25846297>
- Han, M. J. & Hswe, P. (2010). The evolving role of the metadata librarian: Competencies found in job descriptions. *Library Resources & Technical Services*, Vol 54, No 3.
- Hanrath, S. & Radio, E. (2017). User search terms and controlled subject vocabularies in an institutional repository, *Library Hi Tech*, Vol. 35 Issue: 3, pp.360-367, <https://doi.org/10.1108/LHT-11-2016-0133>.
- Hodge, G. (2000). Systems of knowledge organization for digital libraries: Beyond traditional authority files. The Digital Library Federation. Retrieved January 10, 2018: <https://www.clir.org/wp-content/uploads/sites/6/pub91.pdf>.
- Hong Kong University of Science and Technology. Scholar Profiles: Thong, James Y L. Retrieved January 10, 2018: <http://repository.ust.hk/ir/AuthorProfile/thong-james-y-l>
- Hu, X., Jackson, L., Deng, S. and Zhang, J. (2006). Automatic subject heading assignment for online government publications using a semi-supervised machine learning approach. In *Proceedings of the American Society for Information Science and Technology*. Volume 42, Issue 1, 2006. Retrieved January 10, 2018: <http://onlinelibrary.wiley.com/doi/10.1002/meet.14504201139/pdf>
- International Standard Name Identifier (ISO 27729). Retrieved January 10, 2018: <https://viaf.org/>

References and More Reading

- Islandora CLAW. Retrieved January 10, 2018: <https://islandora.ca/CLAW>
- Islandora: Entities solution pack. DURASPACE. Retrieved January 10, 2018: <https://wiki.duraspace.org/display/ISLANDORA/Entities+Solution+Pack>
- Islandora FLVC. Retrieved January 10, 2018: https://islandora.pubwiki.fcla.edu/wiki/index.php/Islandora_FLVC
- Jackson, L. (2005). Difficulties in electronic publication archival processing for state governments. In: 1st International Conference on Universal Digital Library, ICUDL 2005, 175-185. Retrieved January 10, 2018: <https://www.ideals.illinois.edu/handle/2142/16401>
- Lampron, P., Mixter, J. & Han, M. J. (2016). Challenges of mapping digital collections metadata to Schema.org: working with CONTENTdm. Retrieved January 10, 2018: https://link.springer.com/chapter/10.1007/978-3-319-49157-8_15
- Liss, J. (2017). Identity management or authority control? The ALA ALCTS Cataloging Norms Interest Group Meeting, 2017 ALA Annual Conference.
- Mak, L., Lorenzo, L. & Smeltekop, N. (2017). A lightweight structured data implementation using JSON-LD and schema.org for digital repository. ALA ALCTS Cataloging Norms Interest Group Meeting, ALA Midwinter Conference, 2017. Retrieved January 10, 2018: http://connect.ala.org/files/2_ALAMidwinter2017_CNIG_Mak.pptx
- Miguez, M. (2017). Automating controlled subjects from IR keywords. Retrieved January 10, 2018: <http://diginole.lib.fsu.edu/islandora/object/fsu:388899>
- OMEKA Plugins. Retrieved January 10, 2018: <https://omeka.org/classic/plugins/>
- Open Libraries author page. Retrieved January 10, 2018: https://openlibrary.org/authors/OL19512A/Emily_Dickinson
- Salo, D. (2009). Name authority control in institutional repositories. *Cataloging and Classification Quarterly*, 47:3/4 (April 2009).
- Schema.org Vocabulary. Retrieved January 10, 2018: <http://schema.org/docs/gs.html#schemaorg>
- Sunny, S. K. (2017). Application of traditional knowledge organization systems in digital libraries: A study on current status. Tata Institute of Social Sciences. Retrieved January 10, 2018: <http://rnd.tiss.edu/wp-content/uploads/2017/09/Abstract-of-Mr.-Sanjeev-Kumar-Sunny-for-Synopsis-Presentation.pdf>
- TU Delft repository. Colonial architecture & town planning. Retrieved January 10, 2018: <http://colonialarchitecture.eu/>
- University of Central Florida Digital Library. African American Legacy - The Carol Mundy Collection 1794-2010. Retrieved January 10, 2018: <https://ucf.digital.flvc.org/islandora/search/?type=edismax&collection=ucf%3Amundy>
- University of Central Florida Digital Libraries. Overview: Research Lifecycle. Retrieved January 10, 2018: <https://library.ucf.edu/about/departments/scholarly-communication/overview-research-lifecycle/>
- University of Central Florida Digital Libraries. Retrospective Theses and Dissertations, 211. Retrieved January 10, 2018: <http://stars.library.ucf.edu/rtd/211/>
- VIAF: The Virtual International Authority File. Retrieved January 10, 2018: <http://www.isni.org/>
- Waugh, L., Tarver H., Phillips, M. D. (2014). Introducing name authority into an ETD collection, *Library Management*, Vol. 35 Issue: 4/5, pp.271-283, <https://doi.org/10.1108/LM-08-2013-0074>
- Western Name Authority File Project (2016). Authority control for digital collections survey. Retrieved January 10, 2018: <https://sites.google.com/site/westernnameauthorityfile/survey>
- White, H. (2013). Examining scientific vocabulary: Mapping controlled vocabularies with free text keywords. *Cataloging & Classification Quarterly*, Volume 51, 2013 - Issue 6.
- WorldCat identifiers. Retrieved January 10, 2018: www.worldcat.org/identities



Thank you!

Contact

Sai Deng, sai.deng@ucf.edu

Metadata Librarian and Associate Librarian
University of Central Florida Libraries