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### Professional Competencies to Support eResearch

Pascal Vincent Calarco

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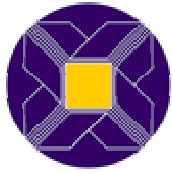
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RESEARCH LIBRARIES

# Professional Competencies to Support eResearch



Pascal Calarco  
Librarian Research Series,  
Leddy Library  
September 30, 2016



University of Windsor

# Overview

- Some context: terms and definition
- Innovation, development of disciplinary competencies
- LIS and modern profession
- “e-Research” and the Library’s role
- The evolving role of the liaison librarian
- Competencies Task Force: goals and output
- Summary and Q&A



# Profession

1. the act of taking the vows of a religious community
2. an act of openly declaring or publicly claiming a belief, faith, or opinion
3. an avowed religious faith
4. **a calling requiring specialized knowledge and often long and intensive academic preparation**
  1. a principal calling, vocation, or employment
  2. the whole body of persons engaged in a calling

Source: Miriam Webster Dictionary. URL: <http://www.merriam-webster.com/dictionary/profession>



# Competence | Competency

## Competence:

- the **ability to do something well** : the quality or state of being competent

## Competency:

- An ability or skill**

Source:

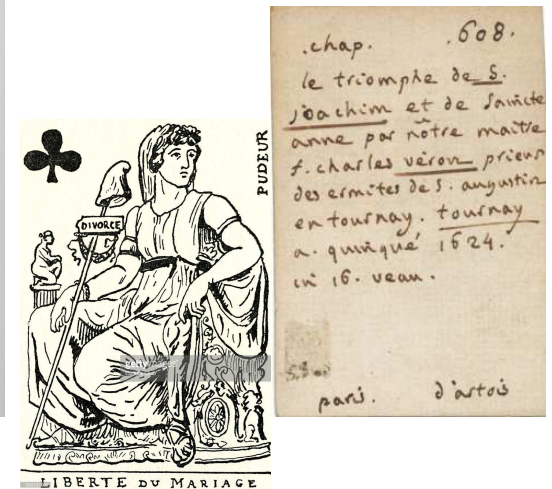
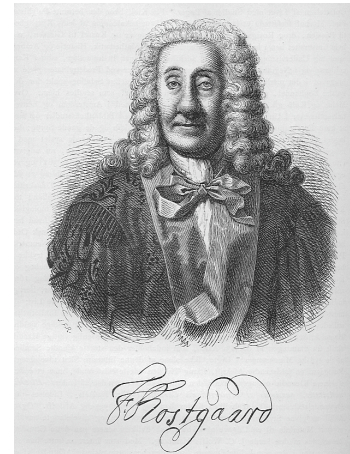
<http://www.merriam-webster.com/dictionary/competence>

<http://www.merriam-webster.com/dictionary/competency>



# Library Science: Prehistory

- Johannes Triethemius (d.1516): first modern bibliography
- Konrad Gesner (1545): subject index with bibliography
- Andrew Maunsell (1595): uniform entry by surname
- Gabriel Naudé (1627) *Advis pour dresser une bibliothèque*
- Frederic Rostgaard (1697): subject catalog
- French Revolution (1790s): card catalog
- Thomas Jefferson (1800s): Library of Congress, Baconian classification



Source: Taylor (2009) *The Organization of Information*, pp.70-73. Images: wikipedia.



# Melvil Dewey (1851-1930)

- 1876: DDC first publication
- 1876-1891: Secretary & founding member, American Library Association
- 1877: Editor, Library Journal
- 1883: Librarian, Columbia College (NY)
- 1884: School of Library Economy, Columbia College

Source: [https://en.wikipedia.org/wiki/Melvil\\_Dewey](https://en.wikipedia.org/wiki/Melvil_Dewey)



# Modern Professionalization

- Accreditation of LIS programs (1925)
- Internationalization of library profession (1927, McGill University)
- Information standards: NISO, ANSI, ISO (1950s-present)
- Graduate education in LIS (1960s)
- Scholarship and research in LIS





# ALA Core Competencies (2009)

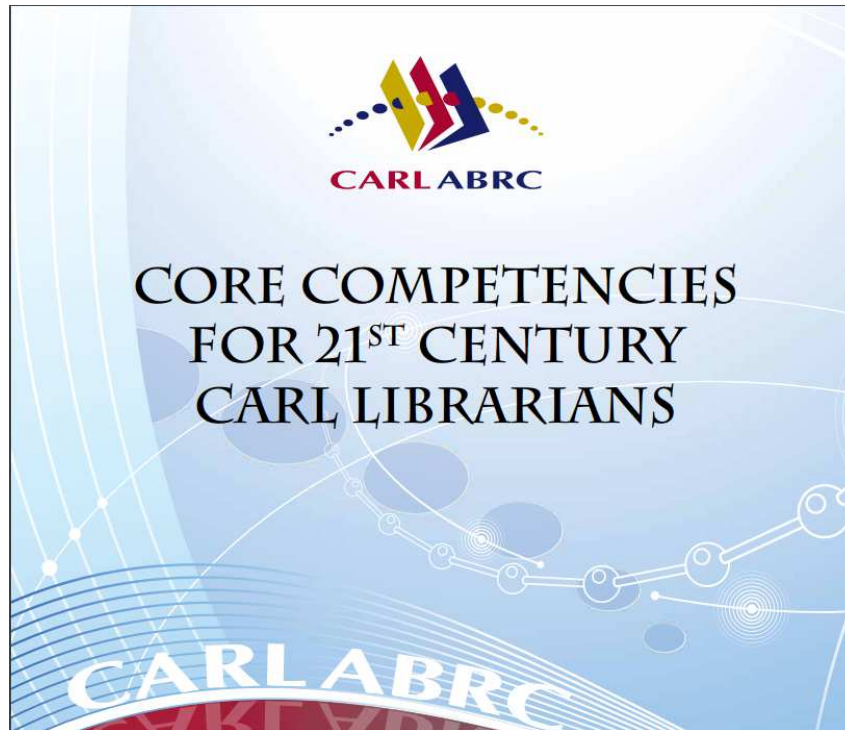
1. Foundations of the Profession
2. Information Resources
3. Organization of Recorded Knowledge and Information
4. Technological Knowledge and Skills
5. Reference and User Services
6. Research
7. Continuing Education and Lifelong Learning
8. Administration and Management

Source:

<http://www.ala.org/educationcareers/sites/ala.org.educationcareers/files/content/careers/corecomp/corecompetences/finalcorecompsta09.pdf>



# CARL Competencies (2010)



1. Foundational Knowledge
2. Interpersonal skills
3. Leadership and Management
4. Collections Development
5. Information Literacy
6. Research & Contributions to the Profession
7. Information Technology Skills



# So many competency statements . . .

- American Association of Law Libraries (AALL): [AALL Guidelines for Graduate Programs in Law Librarianship](#)
- American Association of School Librarians (AASL): [ALA/AASL Standards for Initial Preparation of School Librarians](#) 2010 (pdf)
- American Society for Information Science and Technology (ASIST): [ASIST Educational Guidelines](#)
- Art Libraries Society of North America (ARLIS/NA): [ARLIS/NA Core Competencies for Art Information Professionals](#) (pdf)
- Association for Library and Information Science Education (ALISE): [Information Ethics in Library and Information Studies Education](#)
- Association for Library Service to Children (ALSC): [Competencies for Librarians Serving Children in Public Libraries](#)
- Association of College and Research Libraries (ACRL): [Competencies for Special Collections Professionals](#)
- Association of College and Research Libraries (ACRL): [ACRL Standards and Guidelines](#)
- Association of Vision Science Librarians (AVSL): [Vision Librarian Core Competencies](#)
- Federal Library and Information Center Committee (FLICC): [Federal Librarian Competencies](#) (pdf)
- Map and Geography Round Table (MAGERT): [Map, GIS and Cataloging / Metadata Librarian Core Competencies](#) (pdf)
- Medical Library Association (MLA): [Competencies for Lifelong Learning and Professional Success: The Educational Policy Statement of the MLA](#)
- Music Library Association: [Core Competencies and Music Librarians](#) (pdf)
- North American Serials Interest Group (NASIG): [Core Competencies for Electronic Resources Librarians 2013](#) (Word)
- Society of American Archivists: [Guidelines for a Graduate Program in Archival Studies](#)
- Special Libraries Association (SLA): [Competencies for Information Professionals](#)
- WebJunction (compiled by): [Competency Index for the Library Field](#) (pdf)
- Young Adult Library Services Association (YALSA): [Young Adults Deserve the Best: Competencies for Librarians Serving Youth](#)

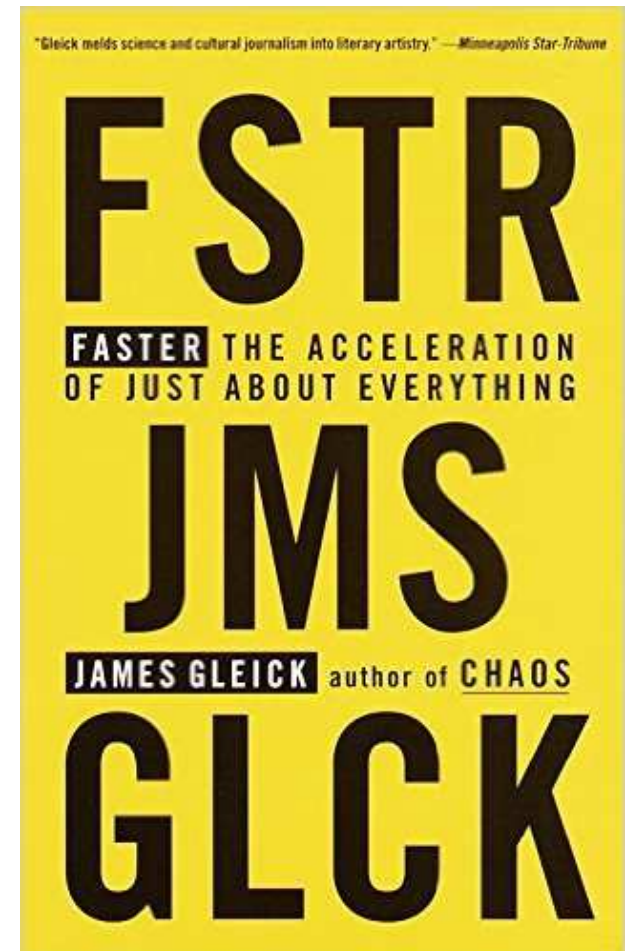
Source: <http://www.ala.org/educationcareers/careers/corecomp/corecompspecial/knowledgecompetencies>



# Why YALCS?

(Yet Another Library Competencies Statement)

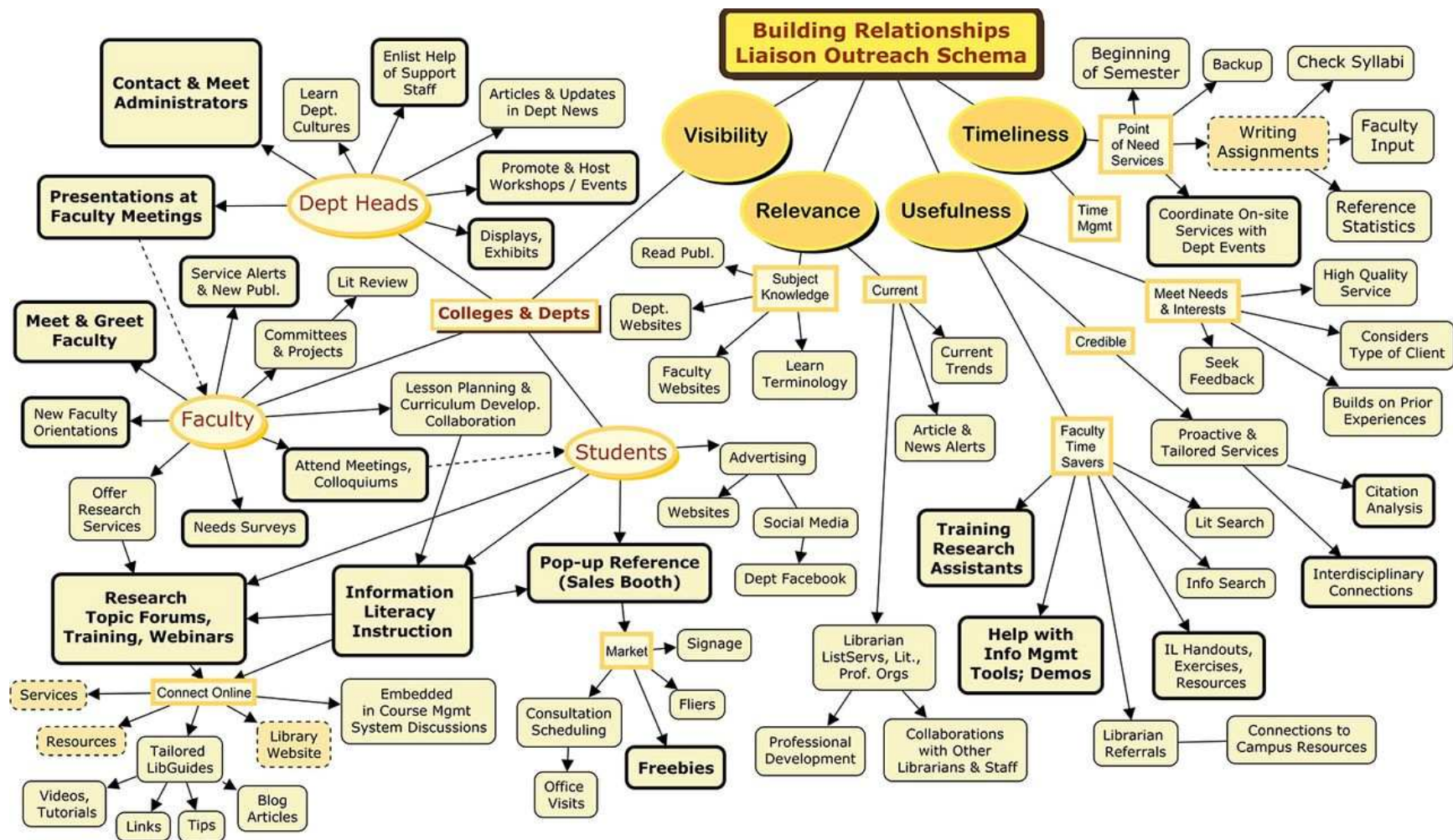
- Technology disruptors:
  - Emergence of computational science
  - Curating digital vs. physical
  - Rate of change: accelerating
- Impact on libraries:
  - Radical overabundance of information
  - Need for new functional specialists for new services
  - Traditional competencies within a data-rich ecology
  - Opportunities, threats and requirements to agile evolution



# ARL/CLIR E-Science Institute (2010-2014)

- Online group learning with 15-25 teams in each cohort; 4-6 months
- Team composition:
  - 1+ librarians
  - 1+ STEM research faculty
  - A technology manager or research manager
- help research libraries map current services and resources into e-research support activities
- assisting libraries in envisioning new services and resources that support e-science
- building new partnerships and collaboration within and across institutions
- About 90 ARL teams participated; some ARLs had multiple teams
- Continues annually under DuraSpace lead sponsor





Source: Judith E. Pasek, "Organizing the liaison role: A concept map" *College & Research Libraries News*. 76(4):202-205. 2015.



# Evolving Liaison Librarianship

New Roles for New Times:

Transforming Liaison Roles in Research Libraries

August 2013

Janice M. Jaguszewski  
Karen Williams

Association of Research Libraries/  
Columbia University/Cornell University/  
University of Toronto  
Pilot Library Liaison Institute

Final Report



Held at Cornell University, Ithaca, New York, June 2015

Barbara Rockenbach  
Judy Ruttenberg  
Kornelia Tancheva  
Rita Vine



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# Drivers for This Competency Task Force

- Carmen-Gloria Labbe, co-Chair of the COAR Board
- Discussion around COAR training in Latin America for repository managers, evolved into competencies, included in COAR Strategic Plan
- LIBER, ARL, CARL joined





# Sponsoring Organizations: ARL and CARL

- **Association of Research Libraries (ARL)**

- Established 1932; 125 research libraries in US and Canada
- Operates as a forum for the exchange of ideas and as an agent for collective action.

[www.arl.org](http://www.arl.org)

- **Canadian Association of Research Libraries (CARL)**

- Established 1972; 32 largest university libraries and two federal institutions
- CARL advances the vision, builds the capacity and promotes the value of Canadian research libraries while supporting improved access to research

[www.carl-abrc.ca](http://www.carl-abrc.ca)



# Sponsoring Organizations: COAR and LIBER

- **Confederation of Open Access Repositories (COAR)**
  - Established 2009; 100+ member institutions globally
  - Mission: to enhance the visibility and application of research outputs through a global network of open access digital repositories.
  - Activities range from the engagement in working and interest groups, advocacy activities, and training opportunities.

[www.coar-repositories.org/](http://www.coar-repositories.org/)

- **Association of European Research Libraries (LIBER)**
  - Established 1971; over 400 national, university and other libraries in 40+ countries
  - Together we work to represent the interests of European research libraries, their universities and their researchers
  - Public policy on copyright and open access, collaborative projects, networking and professional development

[www.libereurope.eu/](http://www.libereurope.eu/)



# Task Force Goals

- Outline the competencies needed by librarians in an evolving environment
  - Identify the avenues of service for libraries within the context of e-research, repository management, and scholarly communication
  - Map the services and roles to the competencies required by librarians and library professionals
- Note of the array of organizational models evolving to support new services
- Produce a toolkit that will help to build capacity in libraries for supporting new roles in the area of scholarly communication and e-research.

Source: [http://www.arl.org/news/arl-news/2860-library-and-repository-communities-join-together-to-identify-new-competencies-for-academic-librarians#.UyM\\_tldVol](http://www.arl.org/news/arl-news/2860-library-and-repository-communities-join-together-to-identify-new-competencies-for-academic-librarians#.UyM_tldVol)



# Current TF members

- Annie Belanger, University of Waterloo, Canada
- Pascal Calarco, University of Windsor, Canada (Lead)
- Corey Davis, COPPUL
- Rob Grim, LIBER, Netherlands
- Julie Hannaford, University of Toronto, Canada
- Iryna Kuchma, Electronic Information for Libraries (eIFL), Netherlands
- Alicia López Medina, Universidad Nacional de Educación a Distancia (UNED), Spain
- Susan Reilly, LIBER, Netherlands
- Judy Ruttenberg, ARL, United States
- Birgit Schmidt, Georg-August-Universität Göttingen, Germany
- Kathleen Shearer, COAR and CARL
- Dominic Tate, University of Edinburgh, United Kingdom



# Research Data Management

- **providing access to data:** consultation and reference services, e.g. to identify datasets, provide advice on discovery and analytic tools as well as how to cite/reference data
- **supporting researchers and students in managing their data:**
  - promoting the institutional/funder data policy,
  - providing support and training, e.g. on how to write a data management plan or how to identify and use data repositories, to publish data, to develop data curation profiles, and to manage software related to data
- **managing a data collection:**
  - Selection and appraisal techniques for datasets;
  - Metadata standards and schemas, data formats, domain ontologies, identifiers, data citation, data licensing;
  - Discovery tools;
  - Database design types and structures;
  - Data linking and data integration techniques;
  - Data storage infrastructures;
  - Digital preservation metadata;
  - Forensic procedures in digital curation



# Scholarly Communication and Open Access

- **Providing consultation and training** that encourages and enables faculty to manage their own **copyright and improve the economics of, and access to, published research**.
- Developing and contributing to **scientific information infrastructures** for the **dissemination and linking of research outputs**, e.g. digital repositories and their networks – on institutional, national and international levels (e.g. SHARE, OpenAIRE, LA Referencia, COAR).\*
- **Offering OA journal and/or book publishing services** and other value-added services to scholars on their campus (work with the university press if there is any).
- Working with the acquisition department, library consortia and research funders to develop and maintain a **publication fund, OA memberships and OA clauses in licenses**.
- Providing access to services and resources that help **measure quality and impact of scholarship**, from traditional bibliometrics to emerging altmetrics



# Profiles Components

- Definition and framework
- Roles involved
- Services & Responsibilities
- Position titles
- Competencies and skills
- Literature – further readings



# Developing a profile

- Literature search
- ARL Job Bank: position postings
- Other advertised positions
- Interviews, consultations
- Peer review (informal)
- Editing for concision





# Future Competency Profiles

- Copyright, IPR advisory services
- Digital Curation and Preservation
- Digital Humanities (under development)
- Metadata Services
- Repository Management (Infrastructure)
- Research Information Management (CRIS, bibliometrics)
- Text and data mining



# More information

- Presentations, progress reports and profiles:
  - <https://www.coar-repositories.org/activities/support-and-training/task-force-competencies/>



# Thank you for listening!



Source: <https://www.flickr.com/photos/kodachrome65/1343052668> CC-BY

**“Cuando el grajo vuela bajo” (“When the rook flies low”)**

Puebla de Don Fadrique, Granada



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