Upskilling Academic Librarians for Data Services

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An RDM Staffing Crisis

- UKY Libraries’ Personnel
  - 60 Librarians
  - 108 Staff

- UKY Libraries’ Personnel w/ Data-Related Expertise
  - 6 Librarians
  - 1 Professional Staff (Temporary)
Distribution of Effort @ UKL for Data Services

Distribution of Effort - Data Services

- Head, Science & Engineering Library and eScience Initiatives
- Head, Cataloging & Metadata Services
- Director, Digital Scholarship
- Director, Digital Services
- Director, University Archives
- Social Science Librarian (new position)
- Digital Humanities Librarian (search underway)
- Digital Mapping Specialist (temporary position)

- RDM Services
- Other Responsibilities
Librarians = 65% of 1 position shared across 6 librarians
Professional Staff = 60% of 1 temporary position
Data Services by Committee

◊ 2015/16
  ◊ Research Data Management Workshop Taskforce

◊ 2016/17 to Present
  ◊ Research Data Management & Scholarly Communications Committee (RDSC)
Pre-Workshop Survey (2015)

Knowledge & Comfort on Data-Related Topics

Methodology based on Bresnahan, 2013
2015/16 – Liaison RDM Workshop

- 17 librarians ‘invited’ to attend by administration
- 13 librarians attended

- Average years of service ~ 25 years
2015/16 – Liaison RDM Workshop

WORKSHOP – Feb. 2-5, 2016

- **Day 1** – Overview, lifecycle, DMPTool
- **Day 2** – Data formats, naming conventions, metadata
- **Day 3** – Data storage, backup, security
- **Day 4** – Data sharing, preservation, archiving

- **Activity** – Create DMP for edited NECDMC case study using DMPTool
Workshop Activity

CASE STUDY: Combining data from 10 years of research for retrospective studies on the effects of exercise and diet on the risk of diabetes

◊ New England Collaborative Data Management Curriculum (NECDMC)

◊ Assigned participants into interdisciplinary teams
◊ At the end of each daily presentation, teams worked in DMPTool on related aspects of the case study
◊ Groups shared DMP with cohort one week after workshop
Day 1 – Overview
- Associate Director, Proposal Development Office
- Professor & Interim Director HPC, Chemical & Materials Engineering

Day 2 – Metadata
- Research Staff, Biosystems & Agricultural Engineering

Day 3 – Storage, Backup & Security
- Chief Information Security Officer, Campus IT
- UK Records Manager, Libraries
- Technical Services & University Archivist, Libraries

Day 4 – Data Sharing
- Assistant Professor, Political Science
- Professor, Physiology

Day 4 – Archiving & Preservation
- COO & Service Manager, DPN
Post-Workshop Survey

Comfort-Level DMP Consultation

Comfort-Level Funder Mandates & Policies

Very anxious | Anxious | Neutral | Comfortable | Very comfortable
Pre-workshop | Post-workshop

Very anxious | Anxious | Neutral | Comfortable | Very comfortable
Pre-workshop | Post-workshop
2016/17 – RDM Workshop Series

- Data Management Basics & Best Practices
- Data Management & Metadata
- Introduction to GIS
- Finding, Organizing, and Creating Spatial Data
- Introduction to Web Mapping
- Preservation of Research Data
- Introduction to GEPHI
- Introduction to Tableau
WORKSHOP ATTENDANCE
SPRING 2017

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2017/18 – Practical RDM Workshops

- RDM Elevator Speech
- Data Reference Interview
RDSC will re-distribute 2015 pre-workshop survey in Spring 2018
Research Data Advisory Group

- University committee formed under auspices of the Office of Research
- Faculty and service providers on campus who have a stake in data services
- Chaired by librarian (Christie Peters)
IMLS LB21 Planning Grant, 2016/17

**TITLE:** Planning Research Data Services in Academic Libraries: Designing a Conceptual Services Model Based on Patron Needs Assessment

**PI:** Soohyung Joo, Communication & Information

- Data services curriculum development

**Co-PI:** Christie Peters, UK Libraries

- Academic library data services
References

University of Kentucky