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Carpe Data: Data Curation Services at Four Different Institutions

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CARPE DATA: DATA CURATION SERVICES AT FOUR DIFFERENT INSTITUTIONS

Lisa Zilinski, Purdue University
Christina Chan-Park, Baylor University
Robin Dasler, University of Maryland
Natsuko Nicholls, University of Michigan
Introduction

Natsuko Nicholls
Who Are We?

- 2 STEM liaisons (Baylor, Maryland)
- 1 Data services specialist (Purdue)
- 1 CLIR/DLF Data Curation Fellow (Michigan)
How Did We Meet?

- DigCCurr Professional Institute, May 2013
- Purpose of Attendance
  - To advance knowledge of data curation
  - Networking
- Affinity Group
  - Research data services (us!)
  - Other groups include: Preservation metadata; Data policies; Production and migration; Workflows and planning
Why Did We Want to Present?

- To share our own “roadmap” for data services
  - Being at different stages and milestones
  - Taking different approaches to data curation
  - Data curation is a continual process
State of Affairs at Each Institution
- Status of data services development
- Steps taken to get to a current stage

Different Possible Methods for:
- Internal training and outreach
- External training and outreach

Conclusion
- What we learned from our experiences
- Future directions and goals of data services in libraries
THE INSTITUTIONS
Baylor University

Christina Chan-Park
Background

- **Carnegie Classification**
  - high research
- **Students**
  - ~13,000 undergraduates
  - ~1500 graduate students (with business & education)
  - ~700 professional students
- **Full-time Faculty**
  - ~650 tenure-line professors
  - ~300 lecturers
Background

- Strategic Plans
  - Baylor 2012
  - Pro Futuris

- Graduate Programs
  - 31 Doctoral
  - 74 Master’s programs

- Research Funding
  - ~$15M in grant funding
  - Anticipate 60-100 DMP grant reviews/year
Dean of Libraries and VP for IT

Electronic Libraries

- Client Services
  - Academic and Research Computing Services
  - Classroom Technology Services
  - Online Teaching and Learning
  - Student Technology Services

- Resources and Collection Management Services
  - Library Systems
  - Digital Projects
Resources and Collection Management Services

- **Library Systems**
  - Catalog/Discovery System/ILS
  - Electronic Resources/Database Accessibility/openURL
  - Scholarly Communication/Copyright/Institutional Repository
  - Course Reserves
  - Library Website
  - Services for learning and research (BrowZine, RefWorks, etc.)

- **Digital Projects**
  - Digitization
  - Digital Collections
  - Digital Repository
Digital Projects

- Digital collections
  - Digitized photos, audio, video, text
  - First collection began digitization in 1999
  - CONTENTdm

- Digital repository (BEARdocs)
  - Documents
    - Theses & Dissertations
    - Articles
  - Established in 2005
  - DSpace
Current & Future Plans

- Review DMPs for grants
- DMPTool
- One-on-one consultations
- Texas Digital Library
Steps

Conversations

- Office of the Vice-Provost for Research
- Libraries
  - Liaison Services
  - Electronic Libraries
  - Associate Dean of Libraries
- Texas Digital Library
University of Maryland

Robin Dasler
Background

- **University**
  - Public land grant university founded in 1856
  - Over $500 million in sponsored research awards, FY2012
  - Proximity to DC allows for extensive federal collaboration opportunities

- **In the Libraries**
  - Strong archives/digital collections emphasis
  - DRUM – digital repository, primarily publications
Both top-down and bottom-up
- University task force on data-related issues and infrastructure
- Simultaneous push from heads of science libraries to approach data issues with strategic agenda

Provisional team established
- Charged to investigate and develop Libraries’ data strategy
- Representation from multiple service areas
- Emphasis on data services for certain new hires
Status

- Planning phase largely completed.
- Drafted business plan
  - Included provisions for determining projects, staffing said projects, and getting library employees up to speed on data issues.
  - De-emphasized data “services” while emphasizing data “projects.”
  - Operate more like a research center than an office.
- Now re-establishing project priorities and rolling out plan of involvement to library staff broadly.
- Conversations continue with campus IT and other stakeholders.
Steps

- Literature review - established as an essential ongoing function of core project oversight team
- Brainstorming and service model development used approaches based in start-up culture.
- Business plan - emphasis on developing sustainable agenda for long term
- Processes begun in brainstorming phase continue in project development phase in the form of iterative service development
University of Michigan

Natsuko Nicholls
Background

- University
  - Research university, founded in 1817
  - 43,000 students and 7,000 faculty
  - FY13’s total R&D expenditures $1.3 B, #1 among public universities in US

- Libraries
  - Key driver for digitization, digital collections and preservation
  - Reorganization completed in 2012
  - Core units: Research, Learning & Teaching, IT, Publishing, Collections, and Operations
Leadership in Data Initiatives
- AUL for Research (August 2012 - )
- Director of Research Data Services (April 2013 - )

Community Engagement
- Campus: High-level data conversations among Library, OVPR, ITS, ICPSR, etc.
- Library: Bringing subject and liaison librarians up to speed in data issues

Data Strategy
- Drawing both institutional and research roadmaps
- Incremental and holistic approaches
- Top-down and bottom-up approaches
Steps

- Environmental Scan
  - CLIR fellows conducting a variety of research

- Assessment
  - Campus interviews (as part of Library’s participation with E-Science Institute)
  - Campus survey

- Decision-making Entities
  - Research Lifecycle Committee, DataCite TF, ORCID TF, Data Management Tool TF, eResearch WG, and Data Education WG

- Pilot
  - NSF DMP support for Engineering faculty
Purdue University
Lisa Zilinski
Land Grant University founded in 1869

Currently over 400 Research Laboratories

Received more than $345 million in sponsored programs funding in 2012

Research at Purdue is supported by the Office of the Vice President for Research

Each College has its own Associate Dean of Research

Centralized Data & Metadata (D&M) Unit in the Library
Evolution of Data Services at Purdue University Libraries

- Jim Mullins, Dean of Purdue University Libraries, 2004
  - Collaborate with faculty across campus
  - Apply library science knowledge and expertise to research problems

- Distributed Data Curation Center (D2C2) created in 2006

- New Staffing Models
  - Research Department
  - Associate Dean of Research
  - Interdisciplinary Research Librarian
  - Data Research Scientist
  - Data Services Specialist
Research & Grants

- Data Curation Profiles (DCP), 2007
- Databib, 2010
- Data Information Literacy (DIL), 2010
- Purdue University Research Repository (PURR), 2011
Where are we Today?

- **Data & Metadata Unit**
  - 3 Data Specialists & 1 Metadata specialist
  - Reports to the Associate Dean for Academic Affairs
  - The Unit has Library-wide, University-wide, and greater community-wide responsibilities.

- **Alignment with academic divisions in the Libraries**
  - Health & Life Sciences
  - Humanities, Social Sciences, Education, & Business
  - Physical Sciences, Engineering, & Technology
  - Metadata Specialist → Archives & Special Collections

- **The Data Education Working Group (DEWG)**
  - Voluntary group
  - Works to bring data education issues, topics, and solutions to the library

- **The Distributed Data Curation Center (D2C2)**
  - Reports to the Associate Dean for Research and Assessment
  - Operational aspects of data management
  - Purdue University Research Repository (PURR)
“We facilitate and enhance the continuum of scholarly communication from discovery to delivery through the provision of information resources, services, partnerships, and national and international leadership.” (Libraries Strategic Plan 2011-2016)
Internal Training and Outreach

Lisa Zilinski
Emphasizing Outreach and Training

- Getting buy-in from liaison librarians
- Work with other units
  - Scholarly Communications
  - Information Literacy
- Highlight tools and resources available
- FAQs for librarians
- Present at conferences
- Research
- Creating discipline-specific training
Methods of Training for Librarians

- Brown Bag Presentations
  - DMPTool
  - Copyright and Data Ownership

- Seminars/Workshops
  - Basic Training for Subject Specialists
  - DMP Consultation How-Tos

- LibGuides and Website Launches
  - Data-specific LibGuides
  - Data News and Information Sharing Website
  - Data Services Website

- Email Templates and Library Newsletter
  - Monthly Readers Advisory Newsletter
  - Customizable Data Management Email Template
Methods of Training for Librarians

- Tutorials and Webinars
- Global Professional Development
  - ICPSR Workshops
  - DigCCurr Institute
  - Data Information Literacy Symposium
- One-on-one conversations
- Encouraging librarians to deposit their own research and materials
- Task Forces and Interest Groups
- Bootstrapping
External Training and Outreach

Robin Dasler
Methods of Training for Researchers and Students

- DMP/Data IR workshops for college/department faculty
  - Partnering with Research Office
  - Department-level workshops
  - Incorporating with existing library courses
- Web Resources: LibGuides and Website
  - LibGuides, both general and discipline-specific
  - News and information services
- One-on-one consultations
Methods of Outreach

- Campus surveys and interviews
  - Understanding of data practices
  - Raise awareness of funder requirements
  - Formalized inquiry in line with researcher practices

- Marketing Campaigns
  - Targeted materials and campaigns for researchers

- Projects
  - Embedded support
  - Pilot projects
Ideas to emphasize in outreach and training

- Importance for funding
- Tools/resources available
- “Devil is in the details”
- Librarians have valuable connections and skills
Conclusions

Christina Chan-Park
What have we learned at Baylor

- Find the right people and departments
- Prepare a plan and be ready
What have we learned at Maryland

- Embrace your campus culture
- Adapt to changing environments
- Sell your ideas
What have we learned at Michigan

- Build a network
- Assess and reassess
What have we learned at Purdue

- Work with the liaisons
- Become involved at the beginning of the process
From our Experiences

http://www.flickr.com/photos/sooperkuh/358241806/
The Future of Data Services
Evolution of Data Services

Project-based → Program-based

- Find the balance
  - ideal and desired vs. available, feasible, and practical
  - basic services vs. catering to specialized need
  - centralized vs. decentralized data services support

- Partner with others
  - With potential clients and users
  - With other departments within the library
  - With other entities outside the library
Questions & Answers