Development of Education Programs in iSchools

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IDCC
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GRADUATE SCHOOL OF LIBRARY AND INFORMATION SCIENCE
The iSchool at Illinois

CIRSS

- **Workforce trends** identified in Larsen's analysis

- **Challenges and gaps for educational programs** identified in 2010 Research Data Workforce Summit

  - In relation to placement data on graduates with Specialization in Data Curation

- **Challenges & Opportunities** from Symposium on Digital Curation in the Era of Big Data

Current positions

Positions that (probably) didn't exist 5 years ago

- Data Management Consultant
- Data Science & Informatics Librarian
- Data Curator
- Assistant Dean, Digital Humanities Research

Librarians

- Research Data Librarian
- Data Librarian
- Digital Curation Librarian
- Digital Preservation Librarian
- Archivist and Digital Librarian

Non- or Less traditional (for our students)

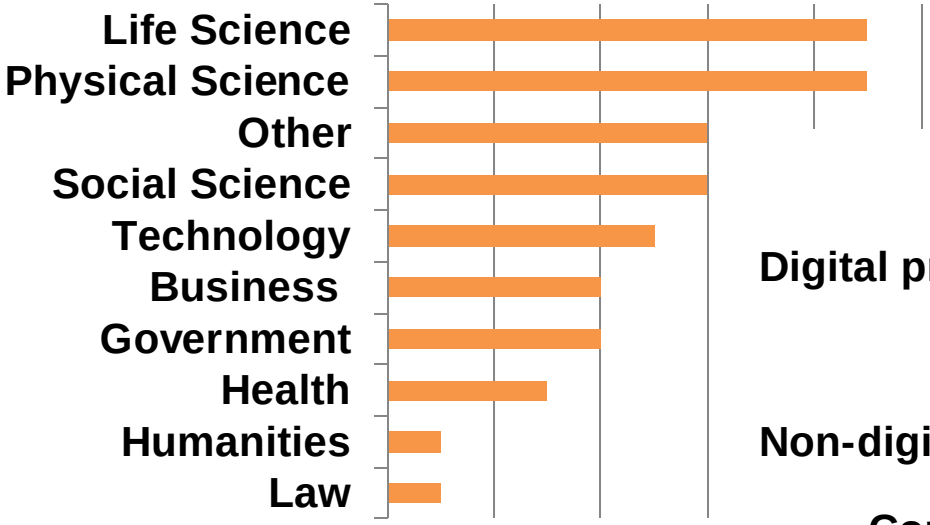
- Research Scientist
- GIS Specialist
- Director of Archive Technology
- Data Analyst
- Digital Asset Manager

- Information Architect
- Information Systems Associate
- Digital Project Coordinator
- Media Content Specialist

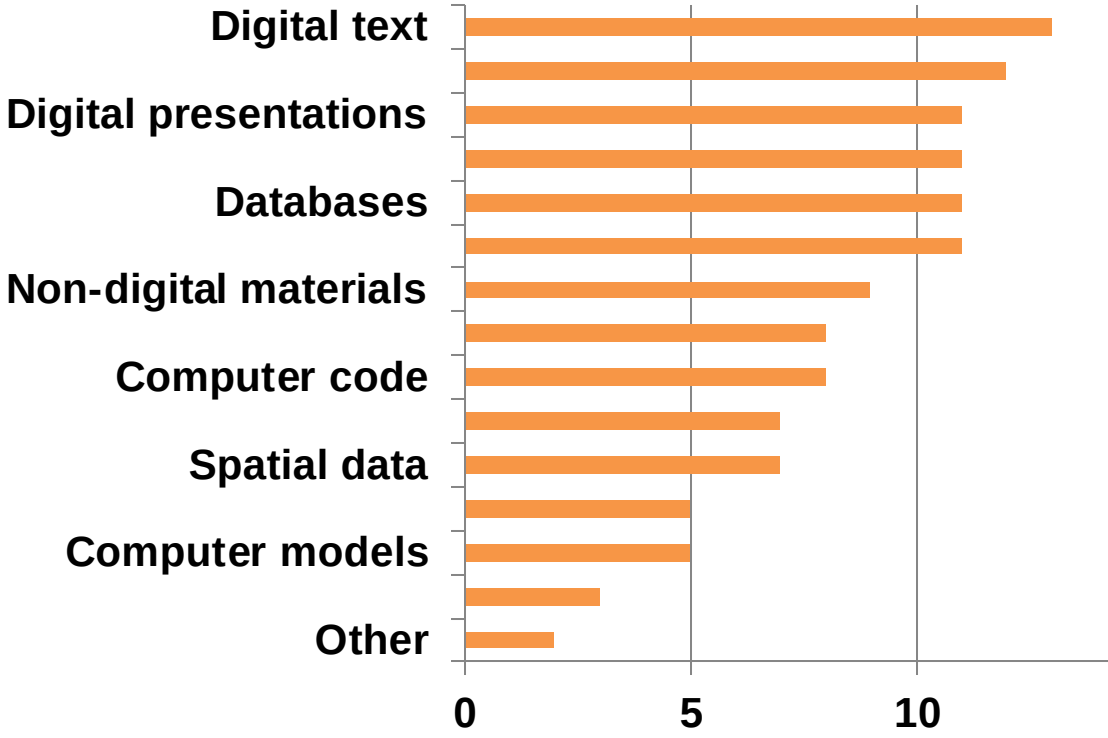
Note: first data services librarian placed in 2002

Placements, data responsibilities

Half in academic / half in corporate, data & research centers, government…



Salary	%
$100,000 and over	4.8
$80,000-89,999	4.8
$70,000-79,999	14.3
$60,000-69,999	14.3
$50,000-59,999	**42.9**
$40,000-49,999	9.5
$30,000-39,999	9.5



held in conjunction with IDCC 2010

DataConservancy

Report from the Research Data Workforce Summit

Sponsored by the Data Conservancy

6 December 2010

Chicago, IL

Summit coordinated by:

Carole L. Palmer & Melissa H. Cragin

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Summit aims; challenges identified

- Immediate and near term workforce needs for scientific organizations
- Gaps in current education programs
- How to keep curriculum current with state-of-the-art

- Student recruitment
- Involvement of practicing experts in formal education
  - internships and field experiences for students
- Documentation of emerging best practices
- Clarification of roles in data curation, data management, & data science
- Substantive curriculum revision for contemporary programming and processing
- Transitioning programs toward continuing professional education
- Coordination within programs among domain sciences, information science, and computer science

Summit report: http://hdl.handle.net/2142/25830

Graduates experiences and recommendations

Strongest areas of preparation	%
Metadata and documentation	74
Digital preservation	61
Modeling and ontologies	57
Data management	52

Greatest challenges in current position

- Keeping up-to-date with data formats, standards, and best practices
- Ongoing professional development
- Collaborating and coordinating across domain communities
- Clarifying roles in the range of data work

Recommend further emphasis in

- computer programming
- change management
- hands-on classroom work
- domain science processes
- engagement with scientific communities and data producers

Symposium on Digital Curation in the Era of Big Data

Data Scientist perspective - Vicki Lynn Ferrini, Lamont-Doherty Earth Observator

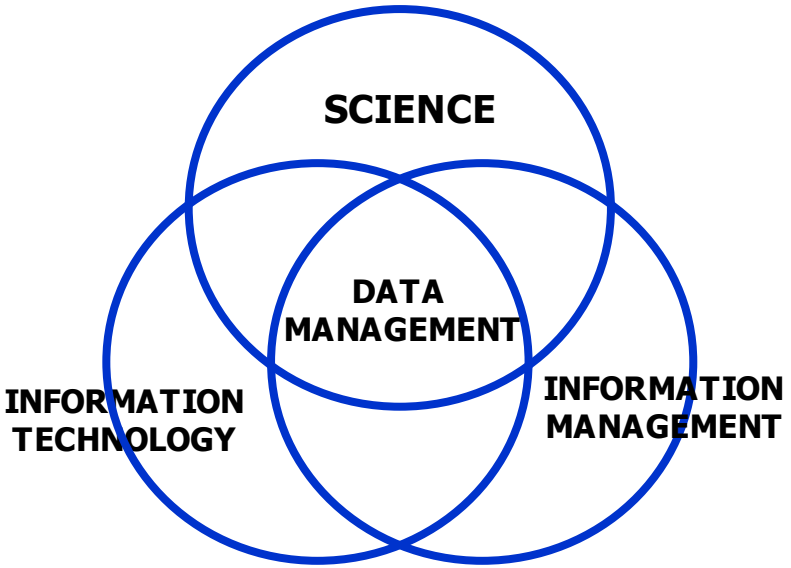
Spanning the continuum

DATA PRODUCERS ⟷ DATA PROVIDERS ⟷ DATA CONSUMERS

Scientific Data Center perspective –

Margarita Conkright Gregg
U.S. National Oceanographic Data Center

Hybrid data professional



http://sites.nationalacademies.org/PGA/brdi/PGA_070217

Over to our responders

David DeRoure

Liz Lyon