Surveying ETD Infrastructure Needs: From Author to End User

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Clemson at a Glance:

Land Grant institution for SC
Science and Engineering orientation
Enrollment of nearly 23,000:
18,000 undergraduate
5,000 graduate

Cooper Library at a glance:

28 Faculty
62 Staff
76 student assistants
Traditionally focused on outreach and instruction
Data Management Services at Clemson

2012:
• Environmental scan uncovered data management practices and needs
• Development of LibGuide: http://libguides.clemson.edu/datamanagement

2013:
• Hired E-Science Librarian & Head of Digital Scholarship
• Joined the U. California DMP Tool
• Launched bepress Digital Commons institutional repository, TigerPrints

2014-Present
• Formed CU Data management team (Libraries, Sponsored Programs, CCIT)
• Conducted internal and external trainings on data management planning
• Continued to develop Data Management Libguide
Graduate students’ data sharing practices
Largest amount of data for a single project?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 1GB</td>
<td>27%</td>
</tr>
<tr>
<td>1 GB to 100 GB</td>
<td>35%</td>
</tr>
<tr>
<td>100GB to 1 TB</td>
<td>11%</td>
</tr>
<tr>
<td>1 TB to 100 TB</td>
<td>6%</td>
</tr>
<tr>
<td>100 TB to 1 PB</td>
<td>0%</td>
</tr>
<tr>
<td>&gt;1 PB</td>
<td>0%</td>
</tr>
<tr>
<td>I don’t know</td>
<td>21%</td>
</tr>
</tbody>
</table>
Have you ever cited a data set in your research?
How do you make your data available?

- **Openly available online**
  - Most of the time: 20%
  - Half the time: 40%
  - Rarely: 40%

- **By request only**
  - Most of the time: 20%
  - Half the time: 40%
  - Rarely: 40%

- **Not publicly available**
  - Most of the time: 20%
  - Half the time: 40%
  - Rarely: 40%
What keeps graduate students from sharing their data?

- Confidentiality/Privacy issues: 54
- Little value to others: 31
- Commercialization/Patent issues: 29
- Lack of time/motivation: 29
- License/usage restrictions: 15
- Requires secure access: 9
- Other: 4
Remaining mindful of our end users
What is your primary role?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Student</td>
<td>11.72%</td>
</tr>
<tr>
<td>Graduate/Doctoral Student</td>
<td>26.56%</td>
</tr>
<tr>
<td>Faculty Member</td>
<td>10.94%</td>
</tr>
<tr>
<td>K-12 student/teacher</td>
<td>3.91%</td>
</tr>
<tr>
<td>Government/Nonprofit employee</td>
<td>8.59%</td>
</tr>
<tr>
<td>Interested Citizen</td>
<td>38.28%</td>
</tr>
</tbody>
</table>
What best describes the reason you are downloading this thesis/dissertation?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>This material is important to my research</td>
<td>50.83%</td>
</tr>
<tr>
<td>This material is freely available</td>
<td>3.33%</td>
</tr>
<tr>
<td>The bibliographies are valuable</td>
<td>0.00%</td>
</tr>
<tr>
<td>I am the author/related to the author</td>
<td>5.83%</td>
</tr>
<tr>
<td>I am generally interested</td>
<td>28.33%</td>
</tr>
<tr>
<td>Other</td>
<td>11.67%</td>
</tr>
</tbody>
</table>
Prior to downloading this work, were you aware that it was a thesis/dissertation?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>63.25%</td>
</tr>
<tr>
<td>No</td>
<td>36.75%</td>
</tr>
</tbody>
</table>
How frequently do you use theses/dissertations in your research?

<table>
<thead>
<tr>
<th>Response</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Never</td>
<td>9.32%</td>
</tr>
<tr>
<td>Rarely</td>
<td>26.27%</td>
</tr>
<tr>
<td>Sometimes</td>
<td>37.29%</td>
</tr>
<tr>
<td>Often</td>
<td>23.73%</td>
</tr>
<tr>
<td>All of the Time</td>
<td>3.39%</td>
</tr>
</tbody>
</table>
Country of Origin

- Argentina
- Australia
- Bangladesh
- Brazil
- Canada
- Chile
- China
- Denmark
- Egypt
- France
- Germany
- Great Britain
- Greece
- Hong Kong
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Italy
- Japan
- Kuwait
- Malaysia
- Netherlands
- Philippines
- Singapore
- South Africa
- Spain
- Thailand
- USA
Take Away

As we continue to develop data management services and infrastructure, we must do so in ways that ensure accessibility for all of our end users.