Open Science in Time of COVID–19: Lessons Learned in an Academic Library

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Open Science as a Cultural and Social Phenomenon

Open Access
Open Data and Open Big Data
Open Source

Cultural

Democratization of Science

Social

Digitalization
Political and Social Development
Community Supported Initiatives

Open Pier Review
Open Research
Open Evaluation
Citizen Science
Librarians are involved in all stages of research cycle

Librarians must have qualifications beyond Library Science
Academic Librarians as Enablers for Open Science

- Data wrangling
- Data manipulation
- Use and support of specialized data management software
- Metadata management
- Supporting various interfaces

Perform

- Access to large data sets in various formats
- Re-use of large and complex data
- Support for interdisciplinary research projects operating with different data types and formats
- Interoperability of data
- Access to (curated) institutional repositories

Enable

Data
- Open Data
- Open Lab Reports
- Citizen Science Data
- Open Institutional Repositories

Open Data
Open Lab Reports
Citizen Science Data
Open Institutional Repositories
Academic Librarians as Promoters of Research Diversity

- Data curation
- Maintain retention policies for data
- Evaluate and grade the data storage (private or public)
- Applies carefully selected set of criteria for archiving

Perform

Enable

- Access to (curated) institutional repositories
- Hosting the entire research output (published and unpublished) in research data repositories
- Overcoming the publication bias
- Ensure re-use of data
- Adding value to data

Data
- Open Data
- Open Lab Reports
- Citizen Science Data
- Open Institutional Repositories
Academic Librarians as Research Advisors

- Publication agreements
- Recommendation of research repositories
- Recommendation of journals publishing opportunities
- Advising on new data generated by research
- Provide insights for local and federal legislation

- Research partnership
- Access to research repositories
- Data curation and storage of large data sets
- Documenting large data sets

Grant Writing and Scholarship
- Open Evaluation
- Open Peer Review
- Archives

Perform
Enable
(Academic) Librarians’ Role During a Pandemic

- Supporting faculty and researchers by providing authoritative information about the latest research developments and publications
- Promoting public health awareness regarding COVID-19 by creating and disseminating authoritative information related to preventative measures
- Maintaining core library services for students and faculty and offering (new) virtual reference services, document delivery, research consultations and online IL classes and webinars
Technology and Physical Space:
• Diminishing presence of public technology (BYOD, dual monitors, etc)
• Bridging the digital divide

OER & Open Access:
• Librarians’ leadership role
• Library host and curator of OER content
• Rising value of Institutional Repositories

Collections:
• Diminishing value of the print format
• Digitization for access instead of digitization for preservation
  • eBooks

Services:
• Electronic interaction
• Self-services/checkout
  • Online classes

Lessons Learned in an Academic Library
Thank you.