A COMMUNITY APPROACH TO ORGANIZING, SHARING, AND PRESERVING THE SCIENTIFIC AND CREATIVE WORKS OF AN INSTITUTION

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General Library, University of Puerto Rico, Mayagüez
June 6, 2018, Santo Domingo, Dominican Republic

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The University of Puerto Rico - Mayagüez (UPRM) Library made a commitment to support the campus research activities. Building knowledge and creating new services
BUILDING RELATIONSHIPS
Between 2007-2014 established meaningful strategic collaborations with key stakeholders

Professional Enrichment Center
Graduate Studies Office
Information Technology Center
Research & Development Center
Research Academy for Faculty & Postdoctoral Fellows (2012)

Nanotechnology Center for Biomedical and Energy Driven Systems and Applications (CREST). 2008-2013, $4,200,000, NSF HRD Award No. 0351449.

Nanotechnology Center for Biomedical, Environmental and Sustainability Applications (CREST Phase II). 2014-2019, $5,000,000, NSF HRD Award No. 1345156.

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NEEDS ASSESSMENT (2013)

Environmental scanning to identify gaps in institutional services, technology, and personnel

OPPORTUNITIES

● Interview campus key-players
● Complete SWOT Analysis
● Understand the campus ecosystem
● Develop agenda to support e-research

FINDINGS

● Concern over loss of research data and inadequate storage
● Limited knowledge regarding organizing, sharing, and preserving information in a digital environment
● Difficulty complying with open access mandates from granting agencies

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Articulated agenda to support research

- Institutional funding from the UPRM Chancellor’s Office

- Title V, U. S. Department of Education
  - TIGER: Transformational Initiative for Graduate Education and Research (TIGER), 2014-2019 # P031M140035

✓ Create Graduate Research and Innovation Center (GRIC)
COMMUNITY

Graduate students
Professors
Researchers
Librarians

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RESEARCH COMMONS

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BUILD A TEAM

- Partially dedicated three librarians to the project (25% time)
- Hired new full-time research services librarian & information technology specialist
- Work closely with Office of Graduate Studies administration
- Develop a direct relationship with faculty and graduate students
SERVICES

Scholarly Communications
Data Management
e-Research

Style Manuals
e-Resources
Virtual Reference

Guidance, training and support

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Library support for the Research Life Cycle

GRIC
Graduate Research & Innovation Center

Review
What's out there

Plan
Organize yourself

Do
Work it smoothly

Share
Let others know

Preserve
Think of the future

Publish
Define the purpose

Impact
Analyze influence

Views
Downloads
Citations
Data Reuse

Professional Profile
Institutional Repository
Data Repository

Research Strategies
Library Resources
Citation Management
Data Sources

Reference Manager
Style Manuals
Data Management Plan

Literature Review
Prevent Plagiarism
Insert Graphics
Use Data

Copyright
Choose Venue
Choose Output
Style & Layout
Organize Data

Documentation
Formatting
Metadata
Storage
Repurpose Data
INSTITUTIONAL REPOSITORY (IR)

- Dspace was selected by a team of librarians and IT personnel (2014)
- The IR hierarchical structure with a community and collections was designed
- Working groups were established

Our journey, successes and hurdles began...
CHALLENGES & DRAWBACKS

These forced the team to rethink the logical steps several times

PLATFORM
- Open source is not free!
- Steep learning curve for Dspace
- Requirement of local infrastructure or funding for cloud hosting
- Definition of the permanent communities and collections
- Maintenance

PROJECT ADMINISTRATION
- Implementation
- Design of workflows
- Standardization of metadata fields
- Establishment of policies and procedures
CHALLENGES & DRAWBACKS

PERSONNEL

- Steady reduction in library and IT personnel
- Lack of dedicated personnel to carry out the tasks
- Dearth of personnel with appropriate job skills and knowledge
- Limited access to outside expert consultants
- Buy-in of library staff to dedicate time to workflows
REPOSITORY STRUCTURE

Community
- UPRM

Sub-communities
- College

Collections
- Departments

Items
- Documents

Conference Proceedings & Events
- Faculty/Research Works
- Student Works
- Theses & Dissertations
- UPRM Community & Partners

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INSTITUTIONAL REPOSITORY @ UPRM

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INSTITUTIONAL REPOSITORY

Theses and Dissertations Collection

- **Phase I: Migration**
  - Establish workflows & policies
  - Standardize metadata fields
  - Design input form
  - Develop procedures manual
  - Train submitters & reviewers
  - Retrieve & upload records
  - Edit metadata fields
  - Approve deposit

- **Phase II: Student self-deposit**
  - Agreements to support GSO in implementation
  - Develop guide (print and online)

- **Phase III: Library catalog migration**
  - Automate migration of ETDs
Library personnel volunteered to migrate ETDs
- Review metadata and add subject headings
- Learn Dublin Core
- Work with faculty and graduate students
SELF-SUBMISSION PROCESS

Students began depositing their theses and dissertations (Pilot - January 2018)

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OPPORTUNITIES

- Broaden meaningful partnerships across campus
- Secure library position within the Research Ecosystem of our Institution
- Simplify policies and procedures with campus partners
- Availability of professional growth for personnel involved
- Develop librarians’ knowledge, skills, and experience related to scholarly communication and data management
PLANS

- Guarantee long term staffing support and sustainability
- Integrate with other open source platforms such as VIREO, VIVO, and SHERPA-RoMEO
- Ingest automatically from APIs
- Expand deposits to include other types of scholarly products and creative works
- Design workshops, Libguides, and personalized consultations to raise awareness on the importance of preservation and open access to research and creative products at UPRM
COMMUNITY ENGAGEMENT

- Implement ORCID (MIT Open Source license software aims to resolve author’s ambiguity)
- Lead campus-wide initiative to develop an Institutional policy to collect and manage research data, creative work and innovation activities
- Create marketing and community engagement plan to showcase IR objects
FINAL THOUGHTS

- Partner with people outside your area
- Cultivate collaborations with key units
- Learn about your research ecosystem
- Design services around your Research Life Cycle
- Ensure sustainability of research services
- Embrace change
- INNOVATE!
ACKNOWLEDGEMENTS

General Library (http://www.upr.edu/biblioteca-rum/) and the Graduate and Innovation Center (http://libguides.uprm.edu/gric)

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