Partnerships and Challenges for Sustainable Research & Data Services

September 24, 2020 | CNI Webinar Series
Amy Koshoffer | Ted Baldwin
UC Libraries
City of Cincinnati
• Sits on the original homelands of the Osage, Shawnee, Miami, Adena and Hopewell tribes
• Incorporated in 1819, was a major stop on Underground Railroad, but also the site of several race riots
• Headquarters of several fortune 500 companies including Kroger and P&G

University of Cincinnati
• Urban, Public R1 intuition founded in 1819
• FY 2019 total research funding $205,675,301 | 949 Awards
• 47+ enrollment in Fall 2020, 11K employees (6.8K faculty)
• Founded co-operative education (co-op) (Hermann Schneider 1906 – CEAS)

UC Libraries – libraries.uc.edu
• ARL member
• Libraries - Uptown campus - 1 Main Library, 10 College & Department between the East and West campuses, Law Library, 2 Regional campuses
• At the uptown campus - 111 total Library staff with 28 Librarians
Assistant Director, Research & Data Services

- Pronouns she/her(s)
- Co-Lead RDS, based on UC’s West Campus
- Associate Senior Librarian, Tenured faculty
- MLIS – Kent State distance learning program
- MS in Mathematics
- BS in Biology
- 17 years bench research experience
- Work includes
  - STEM focused
  - Data Literacy support
  - Data Management support
  - Data & GIS lab, Visualization Lab
  - Coordinate work of support students
About RDS

Research & Data Services

- Promote research efficiencies and research best practices
- Teach data literacy skills
- Provide customized support
- Engage other partners in developing the UC research infrastructure
- Raise awareness of policies, trends, and practices that impact the research environment
Research and Data Services

Team members

**Tiffany Grant PhD**
Co-lead RDS (HSL)
Biomedical informatics

**Amy Koshoffer**
MLIS, MS Co-Lead RDS (GMP) Data Management

**Rebecca Olson**
MLIS (Langsam) Social Science & Business Informationist

**Don Jason**
MLIS, MS (HSL) 
Health Informationist

**Dorcas Washington**
MS (HSL) Data Analytics Specialist

**Jenny Latessa**
MCP (GMP) Student Research Consultant and GIS Specialist

Affiliated Faculty

**Ted Baldwin**
MLIS (CEAS), Director Science and Engineering Libraries

**Mark Chalmers**
MLIS (CEAS), Engineering Librarian

**Emily Kean**
MLIS (HSL), Research and Education Librarian

**Maggie Patel**
MLIS (Langsam/LCOB), Business & Data Analytic Librarian

Libraries – Langsam (main), HSL (Health Sciences), CEAS (College of Engineering and Science), GMP (Geology, Math, and Physics), LCOB (Linder College of Business).
UC RDS Evolution Timeline

- **DuraSpace/DLF E-Science Institute**
- **First UC Data Day Event**
- **Instruction**
- **Consultations**
- **RDS formed as a Unit**
- **GIS Learning Community**
- **2nd NIH Informationist Supplement**
- **Data and Computational Science Series**

**Timeline:**
- **2013**
  - Focus: Research Data Management
  - Hired 3 Informationists
- **2014**
  - Focus: Medical Informatics
  - Scholar@UC
- **2015**
  - 1st NIH Informationist Supplement
- **2016**
- **2017**
  - Data Science
  - GIS
  - Strategy Retreat
  - Hired: Data Viz Specialist & Soc. Science/Business Informationist
- **2018**
- **2019**
  - Digital Integration
  - Beginning work to merge DSC and RDS
- **2020**
Developing Relationships

Where are the starting points, the research needs and research foci?

What unique resources do you have to devote to the development of services?

Who on your campus are working in the areas you are considering support for and how do your plans compliment?
  - Strategic Planning
  - Policies
  - Training
  - Consultation
  - Grant Support
  - Infrastructure

How do the library’s plans and your unit’s mission fit into the larger plans of the institute?

How can you build external relationships with granting agencies to fund innovation?
Three Tier Engagement Model

• Triage - Inform
• Amplify - Advise
• Partnerships – Do

Support STEM • Social Science • Biomedical • Humanities

• Researcher Services and Impact
• Data Management
• Data Analytics and Visualization
• Biomedical Informatics
• GIS Services
• Events focused on Data

Heat map created for Light Up Avondale Project. The Research and Data Services team created the map to emphasize key attributes of property in Avondale.
Teaching, Research Projects, and Program support

• Undergraduate Research Summer Learning Community with Director of Undergraduate Research
• UC 1819 Venture Lab Pre-Accelerator program
• NIH informationist supplement – CARES project
Challenges overcome through relationships

• Data Management Issues  → Participation in the Office of Research Data Management taskforce
  → Service on UC Faculty Research and Scholarship committee

• Supporting ArcGIS Online/StoryMap through consultations and workshops
  → Administration role in ArcGIS Online

• Virtual Workshops
  → Hosting through Faculty Enrichment Center

Developing Relationships From Challenges

CAHS Workshop
This is a representative Story Map for research or teaching
Building Relationships

**Office of Research**
- Serving on Research Advisory Council
- Participation in Office of Research Training Programs as Presenters
  - Infrastructure
  - Data Management plans
  - Developing a NIH BioSketch

**IT@UC**
- Serve on IT Governance Research and Development Committee
- Co-created the Data and Computational Science Series - funded by Provost grant
- Partnered on annual UC Data Day events
Digital Integration

• RDS will merge with our Digital Scholarship Center
  • The DSC is the research engine with Mellon Foundation funding
• Major area of focus will be:
  • Artificial Intelligence / Machine Learning
  • Transdisciplinary over Interdisciplinary Scholarship: "Team Science"
  • Digital / Data Literacy for the Future Workforce and Academy
  • Data Management and Research Efficiencies
  • Open Science and Research Reproducibility
• Will result in the formation of a “Digital Core” supported by the Provost

Next Steps: Merger
RDS Engagement in DSC Research Projects

• Computer Visioning of hand written text in Margaret H. Fulford Herbarium collection
• COVID-19 & Virus Literature Models
• Carbon Burden Demographics
• Mapping Racism in Cincinnati

Herbarium Collection Cards  Virus Literature Model  HOLC maps on red-lining
Next Steps: Digital Integration Planning

Digital Core
Mission
We accelerate UC’s academic missions by using data and digital methods to amplify the research and teaching of our partners across all disciplines.

Services
- UC Libraries
- Data Management
- Geographic Information System (GIS)
- Workshops + Trainings

Research
- Digital Futures @ UC
- Team Science
- 1819 Innovations
- Consultations, Tools, Data resources
- Digital Collections
- Open Science
- IT@UC

Teaching
- Future of work
- Graduate Assistantships
- Research Co-op
- Digital Skills
- External Partners

Courses
- Future of work
- Graduate Assistantships
- Research Co-op
- Digital Skills
- External Partners
- Digital Futures @ UC
- Team Science
- 1819 Innovations
- Consultations, Tools, Data resources
- Digital Collections
- Open Science
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wwwlibraries.uc.edu
Digital Integration

- DSC Membership in Digital Futures (Office of Research) anchor team
  - Human Centered AI
  - Social Justice interest
- Provost-supported Digital Core
  - Goal of Fulfillment of Bearcat Promise, a part of the Academic Excellence strategic direction of the University
  - Developing Digital and Data literacy skills in students
    - Participation in a semester course on Digital and Data Literacy
Thank you for the attention

Questions?

Contact us at ASKDATA@uc.edu