

Leading A Shared Vision of Enterprise Digital Scholarship and Digital Integration



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A Journey Towards A Great Public Research University – *Boldly Bearcat*

**next
lives
here**

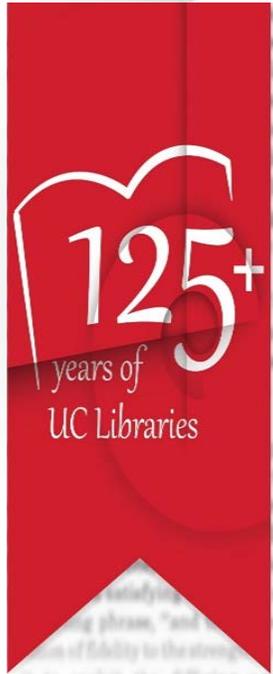
UNLEASHING OUR VISION

LEADING URBAN PUBLIC
UNIVERSITIES INTO A
NEW ERA OF INNOVATION
AND IMPACT

University of Cincinnati's Strategic Direction: Next Lives Here



University of Cincinnati Libraries



*Archives & Rare Books
Library*



Chem-Bio Library



Classics Library



CCM Library



DAAP Library



CECH Library



CEAS Library



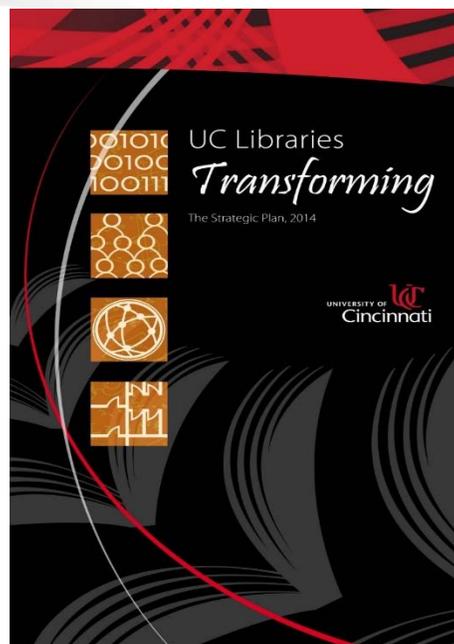
Geo-Math-Phys Library



Health Sciences Library

* Regional Libraries: Blue Ash,
Clermont & Law

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Journey to Transformational Change



DIGITAL TECHNOLOGIES & INNOVATION



PEOPLE



SPACE



DATA to INFORMATION to KNOWLEDGE

The University of Cincinnati Libraries will become the ***globally engaged, intellectual commons of the university*** —positioning ourselves as the hub of **collaboration, digital innovation and scholarly endeavor** on campus.

Key Emerging Digital Trends and Assumptions

- How research is transforming in a changing world:
 - New technologies – driven by the Fourth Industrial Revolution (4IR) and propelled by Big Data, AI (Artificial Intelligence), data visualization, AR/VR. These technologies will transform research methods, modes of research outcomes/scholarship, measurement of impact, and funding priorities.
 - AI-enabled research examples: sift and analyze hidden data trends, personalized and predictive services, aid peer review, identify plagiarism, and predict and evaluate research impact.
 - All research will be data-driven. AI-enabled Data Science will allow all disciplines to engage new questions in the area such as “how can we ask questions on what we don’t know what we don’t know”.
 - Large-scale, cross-disciplinary collaborations will enable a “team science” approach for “moonshot” problems at a global scale.
 - The Open Movement will dominate the future of scholarly communication and publishing.
- How teaching and learning are being transformed:
 - Personalized, customized, predictive, and measurable learning will become mainstream.
 - Digital Literacy will be one of the key credentials to differentiate learners’ competitiveness for employability.
 - AI-enabled learning experiences: individualized academic advising, customized course delivery, algorithmic and data-driven reasoning as a liberal art for the 21st century.

Towards to Enterprise Digital Scholarship Vision - Phase 1:

Initiative to Center



Established in 2016 as a joint venture between the College of Arts and Sciences + UC Libraries.

The DSC has assembled research groups that genuinely span multiple disciplines, with people trained to think very differently about every step in the research process.

Teams are composed of true partners across entire research lifecycle:

- Formulation of research questions
- Pitching grant proposals
- Dataset cleanup and manipulation
- Data analysis and visualization
- Argument formation
- Publication of findings

In 2017, the DSC received a \$900,000 from the Andrew W. Mellon Foundation to expand this mission.

DSC was selected as one of six anchor team to Digital Future building.



DSC and RDS Merge

Research & Data Services

R&DS Research & Data Services

UC Libraries provides access to a wide range of Research Data and GIS services and resources for the campus community. Informaticists and librarians are available to assist researchers in managing and preserving research data, finding and acquiring external data, and in utilizing GIS techniques and software. The library also provides a variety of computing and collaboration spaces to support researchers.

Contact us at ask@uc.edu.

[Visit RDS](#) [Email Us](#) [Manage Data](#)

Mission Statement

The UCL Research Data Services group inspires the creation of knowledge and enhances research productivity across the UC research community through the development and implementation of inter-disciplinary research data services that enable research and promote synergistic collaborations between UCL and UC researchers.

3-Tiered Service Model

TRIAGE

General consultation to discuss research needs or concerns.

AMPLIFY

Training education and assistance provided to increase your understanding and aid in effective use of research resources.

PARTNERSHIP

Team member plays a critical role in the design, development, and analysis of your project.

RDS Mission:

The UCL Research Data Services group inspires the creation of knowledge and enhances research productivity across the UC research community through the development and implementation of interdisciplinary research data services that enables research and promotes synergistic collaborations between UCL and UC researchers.

Areas of Focus

[Expand All](#) [Collapse All](#)

Research Data Services >

Data Management >

Data Analytics >

Biomedical Informatics >

Geographic Information Systems >

Towards Enterprise Digital Integration - Phase 2

Our core mission is to break silos and cross wires across the university. We work at the intersection of data science, the arts and humanities, and the libraries.

Enterprise Digital Integrator (One of six worldwide, projects with eight colleges) + Digital Futures Anchor Team

What We Do:

- Machine Learning and Human-interpretable Data Visualization
- We are a technical catalyst: technology to activate new research.
- We translate between disciplines that rarely interact in order to connect content experts with technical experts.
- We provide resources and infrastructure to nurture research questions and collaborations that slip between the cracks of colleges and funding agencies.
- Create new opportunities: \$3.1 Million in grants, 3 Books + 10 Articles, Commercialization (CincyTech, P&G, 84.51°), Community advocacy over past 3 years.

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RESEARCH

Networked Structure: Leverage different funding models and different research outputs for common team goals

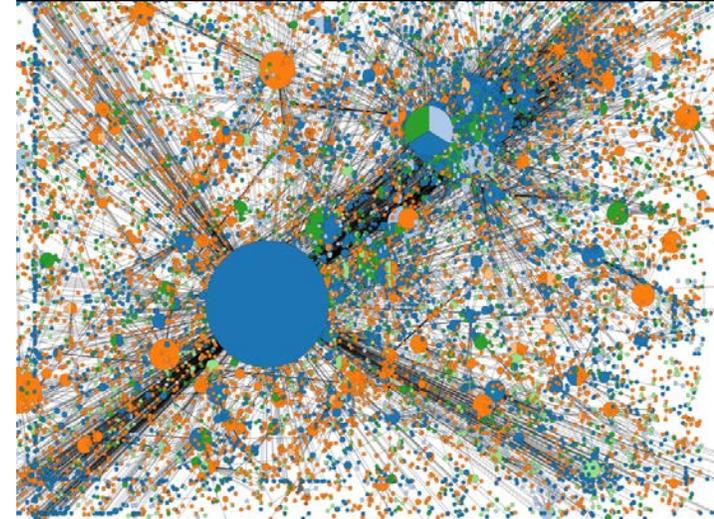
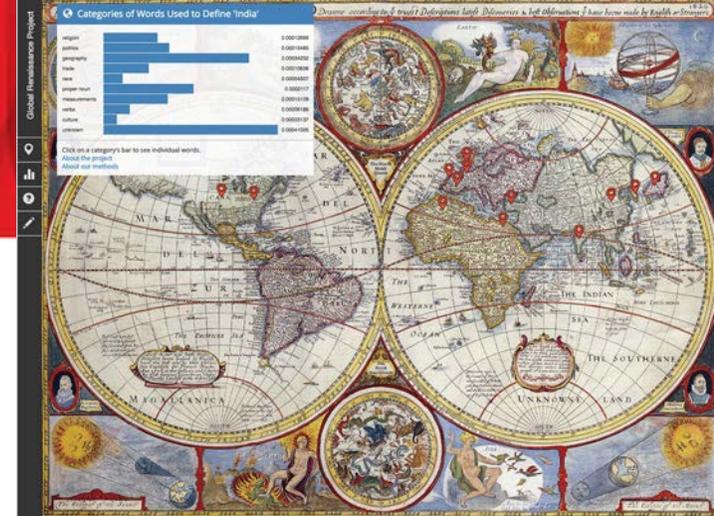
- Human-Centered AI (University-wide)
- Data Visualization + Human-Computer Interaction (HCI)
- Digital Health + Patient-Centered Data (Academic Health Center)
- Commercialize “Analog” Expertise with Digital Technologies (Colleges + 1819 Innovation Hub)

TEACHING

- Introductory Coursework and Workshops within Colleges
- Student Research and Publication in Faculty Teams
- Job Placement and Digital Training for all Students
- NextGen Masters and PhD for the Digital World

CORE SERVICES

- Digital Tool Development and Training
- Faculty Development – Digital Skills combined with analog expertise and archives.
- Integrated Research & Data Services (RDS) operations



Engage, Enable and Empower – A Design Thinking Approach for Next UC Libraries Strategic Framework

- Why we need a new strategic framework
- Why choose the Design Thinking approach
 - The planning processes
 - Desired outcomes
 - Lessons learned