



Research Data Management: Maximizing Your Research Impact Through Smart Data Practices

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What We'll Cover Today



Why data management matters (spoiler: it's not just about compliance!)



The research data lifecycle made simple



Your new best friend:
FIU Research Data
Portal



How to make your data
work harder for your
career



Let's Start With Reality...


The Hidden Costs of Poor Data Management


The "Oops" Moments We've All Had:


- 🔍 "I know I saved that file somewhere..."
- 📊 "What did this variable name mean again?"
- 💾 "Wait, which is the final version?"
- 🤝 "My collaborator can't open my files"
- 📅 "That analysis from last year? Good luck finding it."


The Real Impact



 **Research Data Loss Over Time:** Research data faces significant risk of becoming inaccessible over extended periods. Academic studies show that research data availability declines significantly each year after publication, making long-term access increasingly unreliable without proper archiving protocols.

 **Evolving Policy Requirements:** Funding agencies and academic journals are increasingly implementing mandatory data sharing requirements. These policies represent a fundamental shift toward transparency, reproducibility, and public access to research outputs, requiring researchers to adapt their data management practices accordingly.

 **Recovery Cost Implications:** Improperly preserved research data can result in enormous financial and time costs for reconstruction, requiring substantial institutional resources that could be better invested in new research.

 **"Available Upon Request" Limitations:** This is a common practice in academic publishing where authors indicate data availability through direct contact rather than public repositories. This approach frequently fails to provide actual access, as such requests often go unfulfilled due to various practical barriers including outdated contact information, data loss, or simple non-response.

What Puts Your Research Data at Risk?



Technology Failures:

- Hard drive crashes and system failures
- Software becoming obsolete or incompatible
- Cloud storage account closures or access issues

Human Factors:

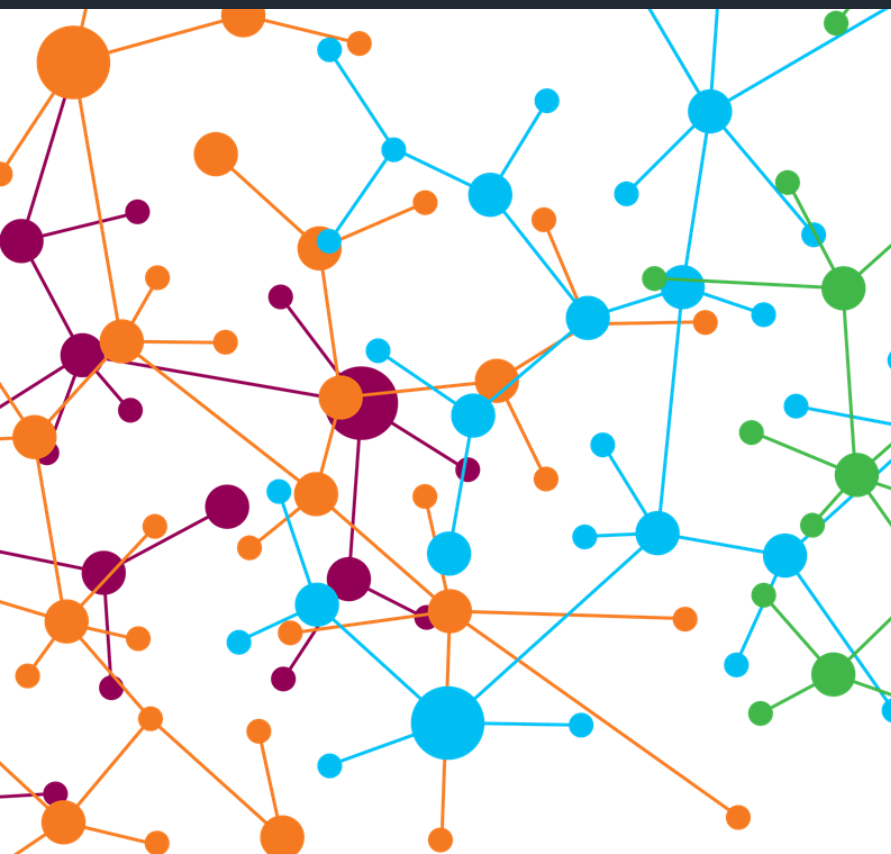
- Staff turnover and knowledge gaps
- Poor documentation and file organization
- Accidental deletion or overwriting

Institutional Changes:

- Lab relocations and equipment changes
- Budget cuts affecting storage systems
- Lack of standardized backup procedures

Understanding these risks is the first step to protect your work.

But First... What IS Research Data?



Traditional Data:

- Numbers
- Spreadsheets
- Databases

Also Considered Data:

- Interview transcripts and audio files
- Survey responses
- Images, videos, 3D models
- Code and algorithms
- Protocols and methodologies
- Lab notebook scans

Research data is the information collected from experiments and observations to support findings. The data should be well-documented to help researchers understand and repeat the study.

What is Research Data Management (RDM)?

More Than Just "Saving Your Files"

RDM is the practice of:

- Planning how you'll handle data before you collect it
- Organizing data so future-you (and others) can understand it
- Storing data safely and accessibly
- Sharing data to maximize impact and meet requirements
- Preserving data for long-term value

***Think of it as:** Your research GPS – it helps you know where you're going, how to get there, and how others can follow your path*

Why Should You Care?

The Triple Win: You, Your Research, Your Career

For You:

- Save time (no more hunting for files!)
- Reduce stress (everything has its place)
- Work more efficiently with collaborators

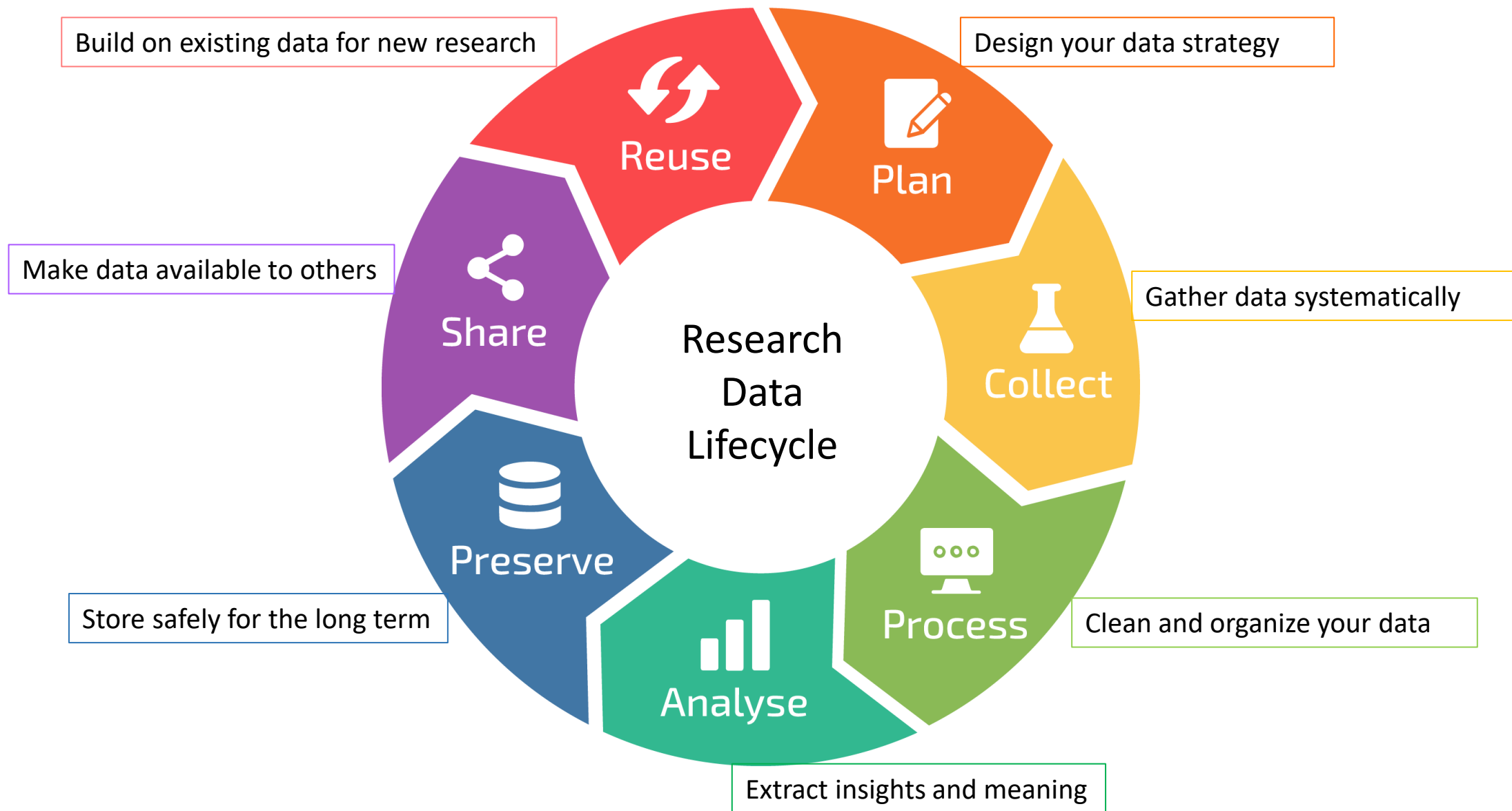
For Your Research:

- Increase reproducibility and credibility
- Enable new discoveries through data reuse
- Meet funder and publisher requirements

For Your Career:

- Boost citation counts through data sharing
- Demonstrate research integrity
- Stand out in grant applications

Good data management isn't extra work – it's working smarter, not harder.



Your Data's Journey from Birth to Legacy

Plan & Collect



Setting the Foundation for Success

Key Questions & Considerations:

- What data will I collect and in what format?
- How will I organize and name my files consistently?
- What tools and systems will I use for data collection?
- Who will have access to the data during collection?
- What are the ethical and legal requirements for my data?
- How will I document my data collection process?
- Where will I store my data safely during the project?

Best Practices:

- Create a data management plan before starting
- Establish clear protocols and procedures
- Document everything as you go
- Plan for data security and backup from day one

Process & Analyze



Transforming Raw Data into Insights

Key Questions & Considerations:

- How will I clean and validate my data?
- What analysis methods and tools will I use?
- How will I document my analysis process for reproducibility?
- How will I manage different versions of my datasets?
- What quality control measures will I implement?
- How will I handle missing or problematic data?
- What metadata do I need to capture during analysis?

Best Practices:

- Keep detailed records of all processing steps
- Use version control for both data and code
- Document assumptions and decisions
- Maintain raw data alongside processed versions

Preserve, Share & Reuse



Maximizing Long-term Value and Impact

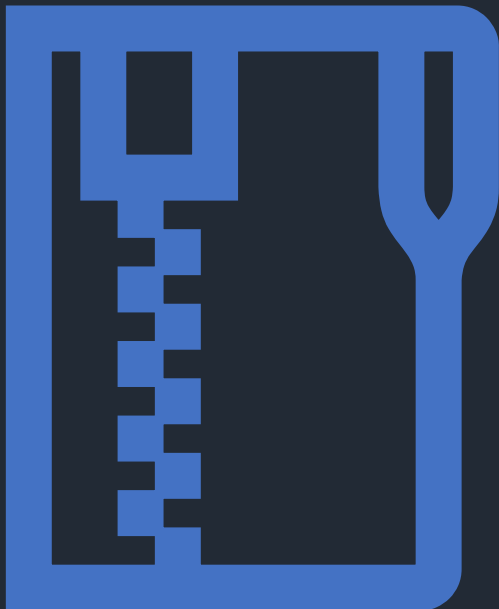
Key Questions & Considerations:

- What data should be preserved for the long term?
- How will I make my data discoverable to others?
- What access restrictions or embargo periods are needed?
- How will I ensure my data remains usable over time?
- What documentation is needed for others to understand my data?
- How can I get credit for sharing my data?
- What licensing terms should I apply?

Best Practices:

- Use standard file formats for preservation
- Create comprehensive documentation and metadata
- Assign persistent identifiers (DOIs)
- Choose appropriate repositories for long-term storage

Data Preparation and Formatting Best Practices

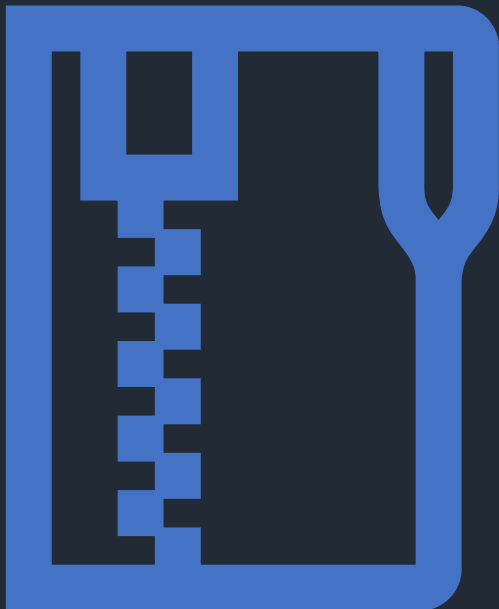


Format Selection and Standards:

Universal Principles:

- **Use open, non-proprietary file formats** (CSV, TXT, PDF/A, JSON)
- **Convert proprietary formats** to preservation-friendly versions when possible
- **Follow discipline-specific standards** when they exist
- **Ensure long-term accessibility** (avoid software-dependent formats)

Data Preparation and Formatting Best Practices



Compression best practices:

- Use ZIP format for collections of related files
- Maintains folder structure and file relationships
- Reduces upload/download time
- Always document compression method used in your README
- Include uncompressed file sizes in documentation

Compression Example:







Instead of uploading 15 separate data files, create:

project_dataset_2025_v01.zip containing all files with a README explaining the compression method and original file structure.

This approach makes your data more user-friendly while maintaining professional archival standards.

File Naming Conventions - Your Data's First Impression

The Golden Rules for File Names:

-  **No Spaces** → Use underscores (_) or hyphens (-)
 - survey_data.csv **not** survey data.csv
-  **ISO Date Format** → YYYY-MM-DD (when dates are needed)
 - 2025-07-24 **not** 07-24-2025 or 24-07-2025
-  **Version Control** → Use v01, v02, v03 (leading zeros for proper sorting)
 - analysis_v01.xlsx **not** analysis_v1.xlsx
-  **Be Descriptive** → Include key identifiers that explain the content
 - temperature_readings.csv **not** data.csv
-  **Stay Consistent** → Develop your system and use it across all projects
-  **Think Universal** → Avoid personal names, local references, or special characters
 - Avoid: / \ : * ? " < > | # % & { } \$! @ + = [] ; ,
 - Safe characters: letters, numbers, hyphens (-), underscores (_), periods (.)

File Naming Conventions - Your Data's First Impression

Recommended Formula: Project_DataType_[Date/Version]_Description

✓ **EXCELLENT Examples:**

fiu_climate_temperature_2025-07-10_raw.csv
miami_survey_responses_v03_cleaned.xlsx
lab_experiment_protein_v02_results.txt
hurricane_interviews_participant-05_transcript.docx

✗ **AVOID These Mistakes:**

Final data.xlsx (spaces, vague)
data_final_FINAL_v2.csv (redundant versions)
temp123.xlsx (meaningless names)
María's Data.xlsx (special characters, spaces)

Pro Tips:

- **Date vs Version:** Use dates for data collection timing, and versions for processing stages
- **Sequential Numbers:** Use padding → participant-01, sample-001
- **Document Your System:** Create a naming convention guide for your project team to ensure consistency and help new members understand your file organization: Example: 'always use YYYY-MM-DD for dates' or 'use underscores not spaces.'

Folder Structure - Building Your Data Architecture

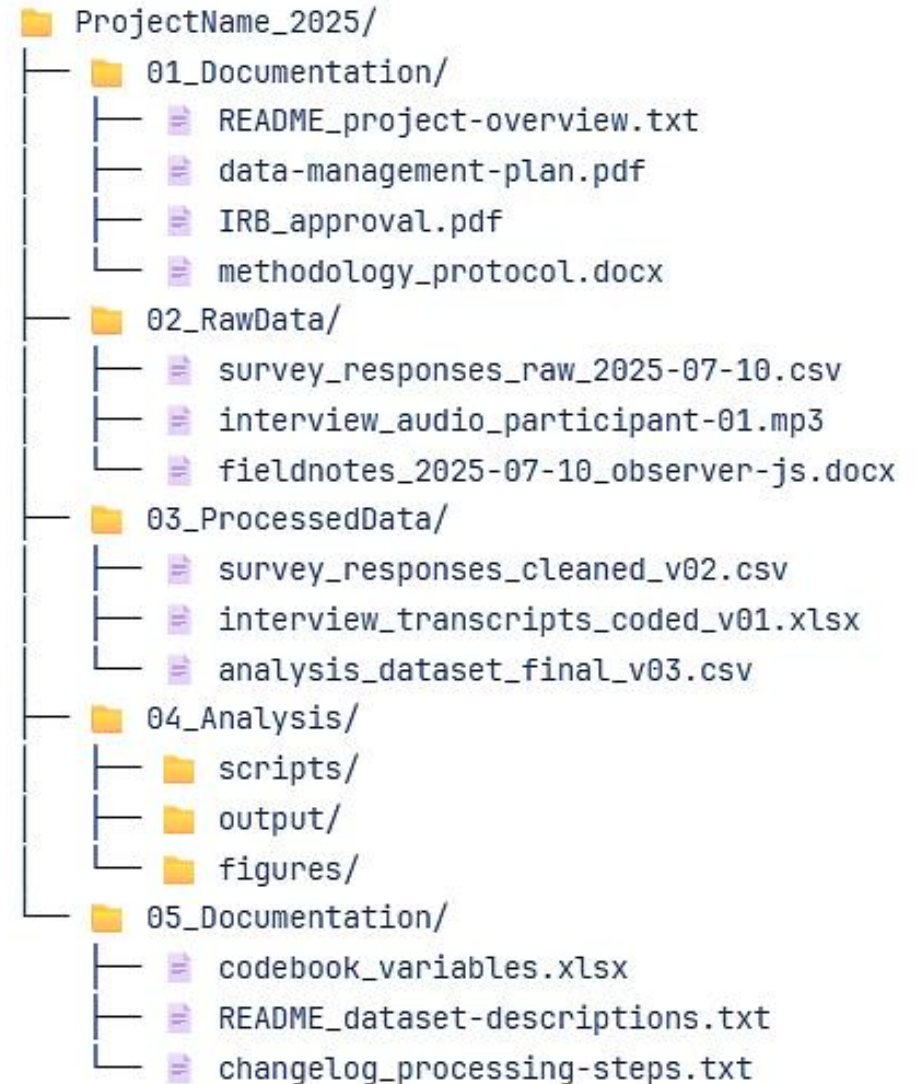
Folder Structure:

- Create logical hierarchies (Project → Data Type → Date)
- Use standard folder names across projects
- Separate raw data from processed data

Folder Naming Best Practices:

- Use numbers for ordering (01_, 02_, 03_)
- Be descriptive but concise
- Separate raw from processed data
- Establish consistent folder organization patterns that you replicate from project to project
- Document your structure in a README file

The Golden Rule: Organize your data as if someone else (including future you) needs to understand it without your help!



Version Control - Track Your Data's Evolution

When to Create New Versions:

- ✓ Major cleaning or processing steps
- ✓ Before sharing with collaborators
- ✓ After incorporating feedback
- ✓ Before publication submission

Smart Version Naming:





dataset_raw_v01.csv ← Original data

dataset_cleaned_v02.csv ← After cleaning

dataset_analysis-ready_v03.csv ← Ready for analysis

dataset_final_v04.csv ← Publication version

The Golden Rules:

-  **Use consistent numbering:** v01, v02, v03 (leading zeros!)
-  **Keep master copies separate** from working copies
-  **Never delete previous versions** during active work
-  **Document what changed** in each version



README Template: Part 1 - Study Overview

Header Information

- **Dataset Title:** [Descriptive name of your study/dataset]
Created: YYYY-MM-DD | **Contact:**
your.email@institution.edu

What This Data Contains

- Brief description of research purpose and main findings

Data Collection

- **When:** Collection period (start - end dates)
- **How:** Methods used (survey, experiment, observation, etc.)
- **Who:** Sample size and key characteristics
- **Where:** Geographic scope or setting

Documentation - Your Data's User Manual



README Template: Part 2 - Data Structure

Files Included

- filename1.csv - Raw data description (N=xxx)
- filename2.xlsx - Processed/cleaned dataset
- codebook.xlsx - Variable definitions and coding schemes

Key Variables

- participant_id: Unique identifier format
 - main_outcome: Primary measure (scale/range)
 - key_predictor: Important variables for analysis
- demographics: Age, gender, etc.

How to Cite

- [Author, Year. Dataset Title. Repository. DOI/URL]
- Include usage restrictions or data access requirements

Documentation - Your Data's User Manual



Study Overview

```
README.txt
=====

# Forest Bird Diversity Survey

**Created:** 2025-06-01 | **Contact:** j.thompson@forestry.edu
**Principal Investigator:** Dr. James Thompson, Ecology Department

## What This Data Contains

Bird species counts and diversity measurements across old-growth and managed
forest sites to assess habitat quality and conservation effectiveness.

## Data Collection

- When: April - August 2025 (breeding season)
- How: Point counts and mist net surveys at dawn
- Who: 45 forest plots, 3 observers
- Where: Pacific Northwest, Oregon and Washington
```

Data Structure

```
## Files Included

- bird_counts.csv - Species abundance data (N=45 sites)
- habitat_data.xlsx - Forest structure measurements
- species_codes.xlsx - Bird species reference list

## Key Variables

- site_id: Forest plot identifier (F001-F045)
- species_count: Number of individuals observed
- shannon_index: Species diversity measure
- forest_type: Old-growth vs. managed
- canopy_cover: Percentage canopy coverage

## How to Cite

Thompson, J. (2025). Forest Bird Diversity Survey [Data file]. Forestry
Research Archive. https://doi.org/10.xxxx/birds.2025.001

=====

Research permits: USFS-2025-042, WDFW-2025-089
Data available for research use only
=====
```

Metadata Essentials - Making Your Data Discoverable

Makes data discoverable in searches

- Without metadata, your data is essentially invisible to search engines and databases
- Metadata acts like tags or keywords that help others find your dataset when they search for relevant topics

Provides essential context without requiring file downloads

- People can read the metadata description to understand what your data contains, how it was collected, and whether it's relevant to their needs
- This saves time and bandwidth - no need to download large files just to see if they're useful

Enables informed reuse by explaining data structure and methods

- Future researchers (including yourself) can understand how to properly use and interpret the data
- Explains what each variable means, how data was collected, what units were used, etc.
- Prevents misinterpretation or misuse of the data

Supports long-term preservation and accessibility

- Metadata ensures that even years later, people can still understand and use your data
- Provides the context needed to maintain data integrity over time
- Helps data repositories properly archive and maintain your datasets

Metadata Essentials - Making Your Data Discoverable

Metadata Quality Levels:

- 🏅 **3 Basic:** Title + Creator + Description + Date + Subject
- 🏅 **2 Enhanced:** + Keywords + Coverage + Methodology + Related Publications
- 🏅 **1 Comprehensive:** + Funding + Variables + Processing Steps + Quality Measures

Target the "Enhanced" level or higher for maximum discoverability and impact!

Remember: Rich metadata transforms invisible data into discoverable, reusable research assets!

Repository Selection - Finding Your Data's Perfect Home

Key Criteria for Choosing a Repository:

Essential Features to Look For:

- **Persistence:** Provides permanent identifiers (DOIs) that won't break
- **Discoverability:** Indexed by search engines and academic databases
- **Long-term sustainability:** Stable funding and institutional backing
- **Technical standards:** Follows metadata standards for your discipline
- **Access control:** Flexible permissions (public, restricted, embargoed)



Repository Selection - Finding Your Data's Perfect Home

Decision Framework:

1. **Check requirements first:** Funder mandates, journal policies
2. **Consider your audience:** Who needs to find and use your data?
3. **Evaluate support:** What help is available for uploading and curation?
4. **Think long-term:** Will this repository exist in 10+ years?

Remember: *The best repository is one that ensures your data remains accessible, discoverable, and properly credited for the long term.*

How to Find Data Repositories - Your Discovery Toolkit

Start with These Key Resources

Discipline-Specific Recommendations:

- Ask your professional associations and journals
- Check funder requirements and recommended repositories
- Look at where colleagues in your field are sharing data

Publisher and Funder Resources:

- Journal data availability statements often list preferred repositories
- Grant agency websites typically provide repository recommendations
- Check your institution's library research guides



How to Find Data Repositories - Your Discovery Toolkit

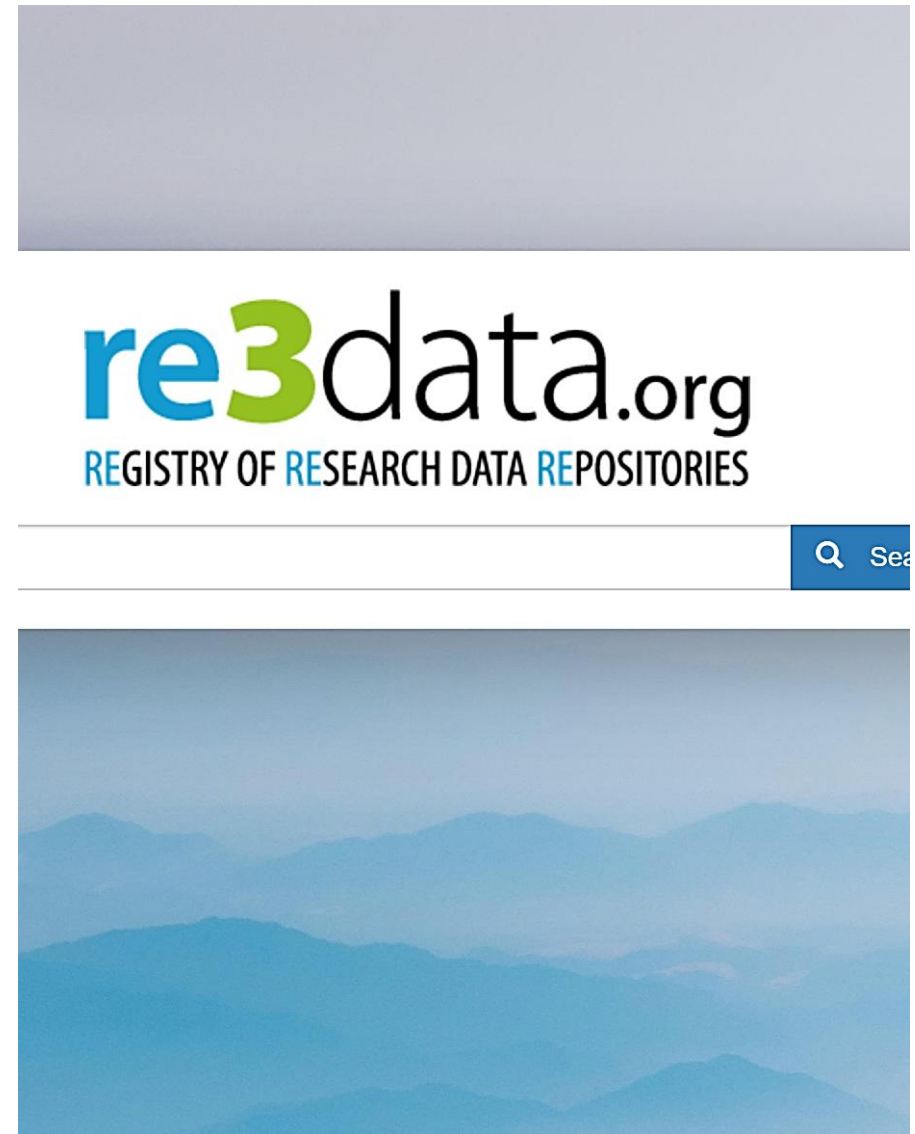
Registry of Research Data Repositories (re3data.org)

- Comprehensive global registry of 3,000+ repositories
- Filter by subject area, content type, and access conditions
- Provides detailed repository profiles and standards

Pro Tips:

- Start with domain-specific repositories when available
- Consider general repositories (like Zenodo) for interdisciplinary work
- Always verify repository sustainability and standards before committing

Remember: The best repository is one that serves your research community and ensures long-term access!



DATA SEARCH

Begin your research here...



<https://rdm.fiu.edu/dataverse/index.html>

Meet Your New Research Partner

FIU Research Data Portal

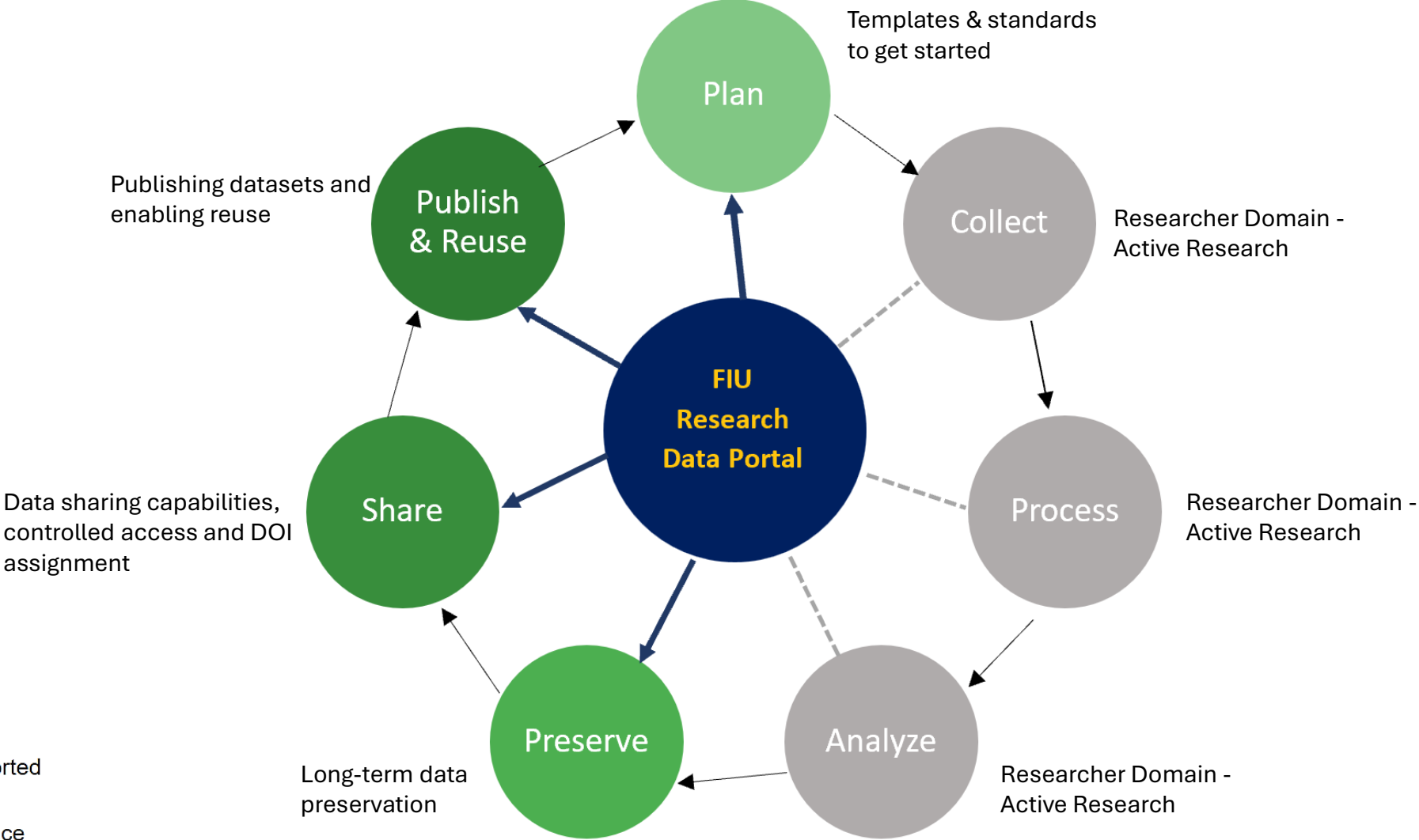
- Built on Dataverse technology (developed by Harvard University)
- Supported by FIU Libraries for the university research community
- Secure, reliable, and professionally maintained

What It Does:

- Stores your research data safely
- Creates DOIs for your datasets (perfect for citations!)
- Provides controlled access sharing
- Ensures long-term preservation
- Integrates with your existing workflow

It's like having a professional librarian for your data, available 24/7

How FIU Research Data Portal Supports You








- Legend:**
- █ FIU Portal Supported
 - █ Not Supported
 - Lifecycle Sequence
 - █ Portal and Service Support

What Can You Submit?

We Welcome All Types of Research Data

Data Types We Accept:

-  **Spreadsheets & Datasets** - Excel, CSV, statistical files
-  **Survey Data** - Questionnaire responses, interview transcripts
-  **GIS Data & Imagery** - Maps, satellite data, spatial analysis
-  **Code & Scripts** - Analysis code, software, algorithms
-  **Documentation & Protocols** - Research methods, lab protocols

Storage Details:

- **Individual files:** Best under 2GB for web upload
- **Total storage:** Up to 100GB per faculty member
- **Large datasets:** We can help with bulk uploads

From spreadsheets to code to protocols – if it supports your research, we want to help preserve it!

Login / Creating account

- Access Point: dataverse.fiu.edu
- Click "Login" in top-right navigation
- Login Options:
 - **FIU users:** Select "signon.fiu.edu/idp" from dropdown
 - **Non-FIU users:** Select "Username/Email" option
 - **Google account:** Select "Google" option
- **First-time non-FIU users** must click "SIGN UP" and complete their registration profile
- **New users** are required to review and accept the Terms of Use

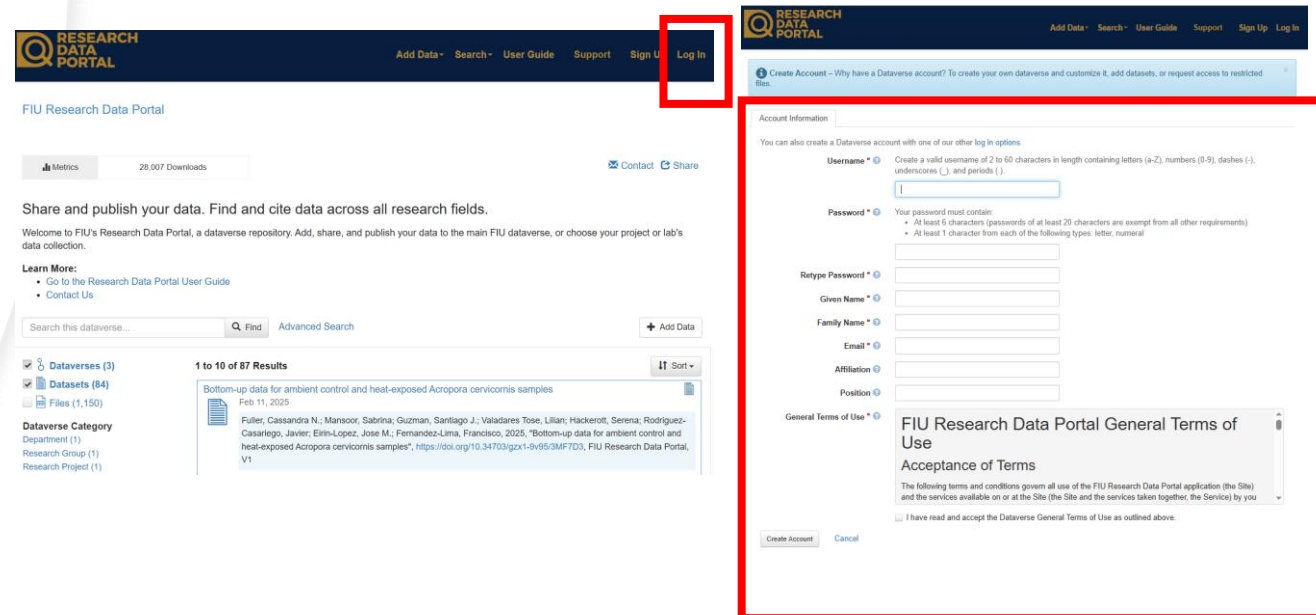


Log In

Log in or sign up with your institutional account — more information about account creation. Leaving your institution? Please contact FIU Research Data Portal Support for assistance.

This is a screenshot of the login interface. A red box highlights the "Your Institution" section, which contains a dropdown menu with "Please select..." and "https://signon.fiu.edu/idp" selected. To the right is a "Continue" button. Below this is the "Other options" section with "Username/Email" and "Google" buttons.

Sign up for a Dataverse account.



Upload Process Made Simple

Getting Your Data Into the Portal

✓ Required Information (The Basics):

- **Title & Description** - What is this data about?
- **Author & Contact Info** - Who created it and how can they be reached
- **Subject Area** - Which field of research?
- **Keywords** - Help others discover your work

☀ Optional Enhancements (Boost Your Impact):

- **Related Publications** - Link to papers using this data
- **Grant Information** - Connect funding to outputs
- **Notes** - Additional context for users
- **Kind of Data** - Specify data type for better discovery

The screenshot shows the 'Citation Metadata' form in the Research Data Portal. The form is organized into sections for different types of information. At the top, there is a navigation bar with the logo and links for 'Add Data', 'Search', 'User Guide', and 'Support'. The form itself has a header 'Citation Metadata' with a dropdown arrow. Below this, the 'Title' section includes a text input field with a placeholder 'Enter title...', a button to 'Add "Replication Data for" to Title', and a help icon. The 'Author' section has a 'Name' field with a placeholder 'FamilyName, GivenName or Organ', an 'Affiliation' field, an 'Identifier Scheme' dropdown menu, and an 'Identifier' field, with a plus sign button to the right. The 'Contact' section has a 'Name' field with the same placeholder, an 'Affiliation' field, and an 'E-mail' field, also with a plus sign button. The 'Description' section features a text area with a note 'This field supports only certain HTML tags.' and a 'Text' field with a plus sign button. The 'Date' section has a text input field with a placeholder 'YYYY-MM-DD'. The 'Subject' section has a dropdown menu with a placeholder 'Select...'. The 'Keyword' section has a 'Term' field and a 'Vocabulary' field, both with plus sign buttons.

Top-down and Bottom-up data for Core Bovine Histones

Version 2.0



Fuller, Cassandra N.; Alam, Md Shofiu; Jeanne Dit Fouque, Kevin; Valadares Tose, Lilian; Searfoss, Richard; Garcia, Benjamin A.; Van Orden, Steve; Fernandez-Lima, Francisco, 2025, "Top-down and Bottom-up data for Core Bovine Histones", <https://doi.org/10.34703/gzx1-9v95/SKI> NGB, FIU Research Data Portal, V2

[Cite Dataset](#)

[Learn about Data Citation Standards.](#)

[Access Dataset](#)

[Edit Dataset](#)

[Link Dataset](#)

[Contact Owner](#)

[Share](#)

[Dataset Metrics](#)

0 Views

0 Downloads

0 Citations

Description

This dataset includes top-down TIMS-UVPD-FT-ICR MS/MS of intact core bovine histones and the H3 tail with K36ac, and bottom-up nLC-TIMS-ddaPASEF-MS/MS of propionylated tryptic core bovine histone peptides.

Subject

Chemistry; Medicine, Health and Life Sciences

Keyword

Trapped ion mobility spectrometry, Ultra-high resolution mass spectrometry, Ultraviolet photodissociation

[Files](#)

[Metadata](#)

[Terms](#)

[Versions](#)

Search this dataset...

[Find](#)

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Filter by

[File Type: All](#)

[Access: All](#)

[Sort](#)

1 to 10 of 37 Files

[Edit Files](#)

[Download](#)



Bovine_H2A_128k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_01
1.zip

ZIP Archive - 2.7 MB - Apr 22, 2025 - 0 Downloads
MD5: 125b124a11b86e6c9d9cc49b471da2b1



Bovine_H2A_1M_4s_pos_nESI_ADD_UVPD_Isol_934_15+_000
1.zip

ZIP Archive - 23.3 MB - Apr 22, 2025 - 0 Downloads
MD5: 3530b0fb79c183951f3c3beaa371e280



Bovine_H2A_256k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_01
1.zip

ZIP Archive - 5.2 MB - Apr 22, 2025 - 0 Downloads
MD5: 6dac2cbaf2272f96624557a9c6715ce3



Persistent

Identification:

- DOI assignment for permanent, citable links

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Dataset Metrics ⓘ

0 Views ⓘ

0 Downloads ⓘ

0 Citations ⓘ

Collaboration Tools:

- Contact owner: "Contact Owner" button
- Sharing: "Share" button
- Dataset management: "Edit Dataset" dropdown, "Link Dataset" option

Analytics & Impact Tracking:

- Usage metrics:
- "Dataset Metrics" section showing "Views", "Downloads", "Citations"

Files **Metadata** Terms Versions

Search this dataset...

Filter by

File Type: All ▾ Access: All ▾

1 to 10 of 37 Files

<input type="checkbox"/>	<p>Bovine_H2A_128k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_01 1.zip</p> <p>ZIP Archive - 2.7 MB - Apr 22, 2025 - 0 Downloads</p> <p>MD5: 125b124a11b86e6c9d9cc49b471da2b1</p>	
<input type="checkbox"/>	<p>Bovine_H2A_1M_4s_pos_nESI_ADD_UVPD_Isol_934_15+_000 1.zip</p> <p>ZIP Archive - 23.3 MB - Apr 22, 2025 - 0 Downloads</p> <p>MD5: 3530b0fb79c183951f3c3beaa371e280</p>	
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User-Friendly Interface:

- Navigation tabs: "Files", "Metadata", "Terms", "Versions" tabs

- Download options:** Download arrows next to each file and "Download" button

- File Options menu:** Three-dot menu (:) next to each file providing "Edit Options on Metadata", "Restrict", and "Delete" functions

[Files](#) [Metadata](#) [Terms](#) [Versions](#)

Filter by

File Type: All Access: All

1 to 10 of 37 Files

<input type="checkbox"/>		Bovine_H2A_128k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_01_1.zip ZIP Archive - 2.7 MB - Apr 22, 2025 - 0 Downloads MD5: 125b124a11b86e6c9d9cc49b471da2b1
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Dataset Metrics

0 Views

0 Downloads

0 Citations

Description

This dataset includes top-down TIMS-UVPD-FT-ICR MS/MS of intact core bovine histones and the H3 tail with K36ac, and bottom-up nLC-TIMS-ddaPASEF-MS/MS of propionylated tryptic core bovine histone peptides.

Subject

Chemistry; Medicine, Health and Life Sciences

Keyword

Trapped ion mobility spectrometry, Ultra-high resolution mass spectrometry, Ultraviolet photodissociation

- Files
- Metadata
- Terms
- Versions

Search this dataset... [Find](#)

Filter by
File Type: All Access: All

[+ Upload Files](#)
[Sort](#)

1 to 10 of 37 Files		Edit Files	Download
	Bovine_H2A_128k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_001.zip ZIP Archive - 2.7 MB - Apr 22, 2025 - 0 Downloads MD5: 125b124a11b86e6c9d9cc49b471da2b1		
	Bovine_H2A_1M_4s_pos_nESI_ADD_UVPD_Isol_934_15+_0001.zip ZIP Archive - 23.3 MB - Apr 22, 2025 - 0 Downloads MD5: 3530b0fb79c183951f3c3beaa371e280		
	Bovine_H2A_256k_4s_pos_nESI_ADD_UVPD_Isol_934_15+_001.zip ZIP Archive - 5.2 MB - Apr 22, 2025 - 0 Downloads MD5: 64e2eb4337286624557e9e6715ee2		

Flexible File Management:

- File listings: Main content area showing zip files with sizes and dates
- Upload capability: "Upload Files" button (top right of file list)
- File organization: "Files" tab

The Citation Advantage

Make Your Data Work for You:

- **Permanent DOI Assignment** - Every dataset receives a citable Digital Object Identifier through FIU's Research Dataverse Portal
- **Enhanced Academic Visibility** - Your data becomes discoverable across major research platforms and academic search engines
- **Professional Research Profile** - Link dataset DOIs directly to your ORCID profile to showcase your complete research portfolio
- **Proper Attribution Protection** - Ensure you receive credit when other researchers build upon your work

Proven Career Benefits:

- **25% Citation Boost** - Research shows studies with accessible data receive significantly more citations
- **Direct Dataset Citations** - Researchers can cite your dataset directly using its DOI, giving you credit each time your data is used in other studies
- **Funding Advantage** - Grant agencies increasingly prioritize and favor researchers who demonstrate data sharing practices
- **Long-term Career Investment** - Your datasets continue generating citations and recognition long after initial

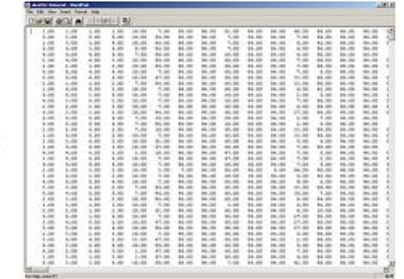
Your Publication



**Formal
Data
Citation**



Your Data



Principle 2 - Credit and Attribution:

Such as authors, repositories or other distributors and contributors.

← **Author(s), Year, Dataset Title, Global Persistent Identifier,** →

← **Data Repository or Archive, Version**



Principle 7 - Specificity and verification: Such as the specific version used. Versioning or timeslice information should be supplied with any updated or dynamic dataset.

Principles 4, 5, 6 - Unique Identification, Access, Persistence:

A unique, persistent identifier, such as a DOI or Handle, that provides access to metadata.

Flexible Storage & Organization Options

Your Data, Your Way

Two Storage Options:

- 1. Main Research Data Portal** • Maximum visibility and discoverability • Ideal for data you want widely shared • Appears in global searches and catalogs
- 2. Departmental Collections** • Project-specific organization • Perfect for collaborative team projects • Maintains departmental identity and branding

You Stay in Control:

- Set Access Permissions - Public, restricted, or private
- Embargo Sensitive Data - Delay public access as needed
- Update and Version - Keep datasets current
- Track Usage Statistics - See who's using your data



Expert Guidance & Resources

FIU Libraries Research Data Management Team

The FIU Libraries Research Data Management Team serves as an **advisory and consultation resource** for the university's research community. This specialized team provides expert counsel and guidance throughout the data lifecycle, offering researchers strategic direction and best practice recommendations.

We Provide:

- Research data guidance
- Data Management Plan (DMP) assistance
- Metadata creation guidance
- Copyright and licensing advice
- Quality control for metadata of uploaded datasets
- These consultative services are supported by comprehensive resources including detailed [LibGuides](#), standardized templates, and educational workshop series designed to empower researchers with the knowledge and tools needed for effective data management.

The screenshot shows the FIU Libraries Research & Data Support website. The header includes the FIU Libraries logo, navigation links for Data Support, LibGuides, A-Z List, and Help, and a search bar. The main content area is titled "Research & Data Support" and features a grid of 12 service tiles: The Research Process, Data Collection & Creation, Data Sources, Metadata & Documentation, Copyright & Use, Survey Design, Data Management, Data Computing Resources, Data Processing & Preparation, Data Analysis, Mapping & Data Visualization, and Data Presentation. A "Workshops" section on the right shows "No events found". The footer contains navigation for Information, Libraries, and Contact, along with links to Library Floorplans, Engineering Center, MMC, and BBC.

Common Concerns Addressed



Let's Tackle the Real Questions

"I don't have time for this"

- Reality: RDM saves time in the long run
- Start small: 15 minutes of organization saves hours later

"My data isn't interesting to others"

- Reality: You can't predict future research needs
- Example: Weather data from the 1800s is now crucial for climate research

"What if someone scoops my research?"

- Reality: You control access and timing
- Options: Embargo periods, restricted access, metadata-only sharing

"I don't know how to organize data properly"

- Reality: We're here to help!
- Support: Training, templates, one-on-one consultations

Getting Started is Easier Than You Think



Your First Steps to Data Management Success

This Week:

1. Audit your current data: What do you have and where is it?
2. Visit the FIU Research Data Portal: <https://rdm.fiu.edu/>
3. Start with one small dataset: Practice makes perfect

This Month:

1. Create a data management plan for your next project
2. Organize one existing project using best practices
3. Upload your first dataset to the portal







This Semester:

1. Integrate data management into your regular workflow
2. Share at least one dataset publicly
3. Track your citation impact from shared data

Remember: You don't have to be perfect from day one – just better than yesterday!

Key Takeaways

Your Path to Research Data Success

-  **Start Small, Think Big:** Begin with one dataset and build your skills progressively
-  **Organization = Liberation:** Consistent naming and structure free you from data chaos
-  **Lifecycle Thinking:** Plan for the entire journey from collection to reuse
-  **Use Your Resources:** FIU's infrastructure and expertise are here to support you
-  **Data = Citations:** Shared data amplifies your research impact and career growth
-  **Community Matters:** Join the growing movement of researchers committed to open, reproducible science

Good data management isn't just about compliance—it's about doing better research and advancing your career.


Thank You & Contact

Contact Information:

Sonia Santana | Research & Data Repository Manager

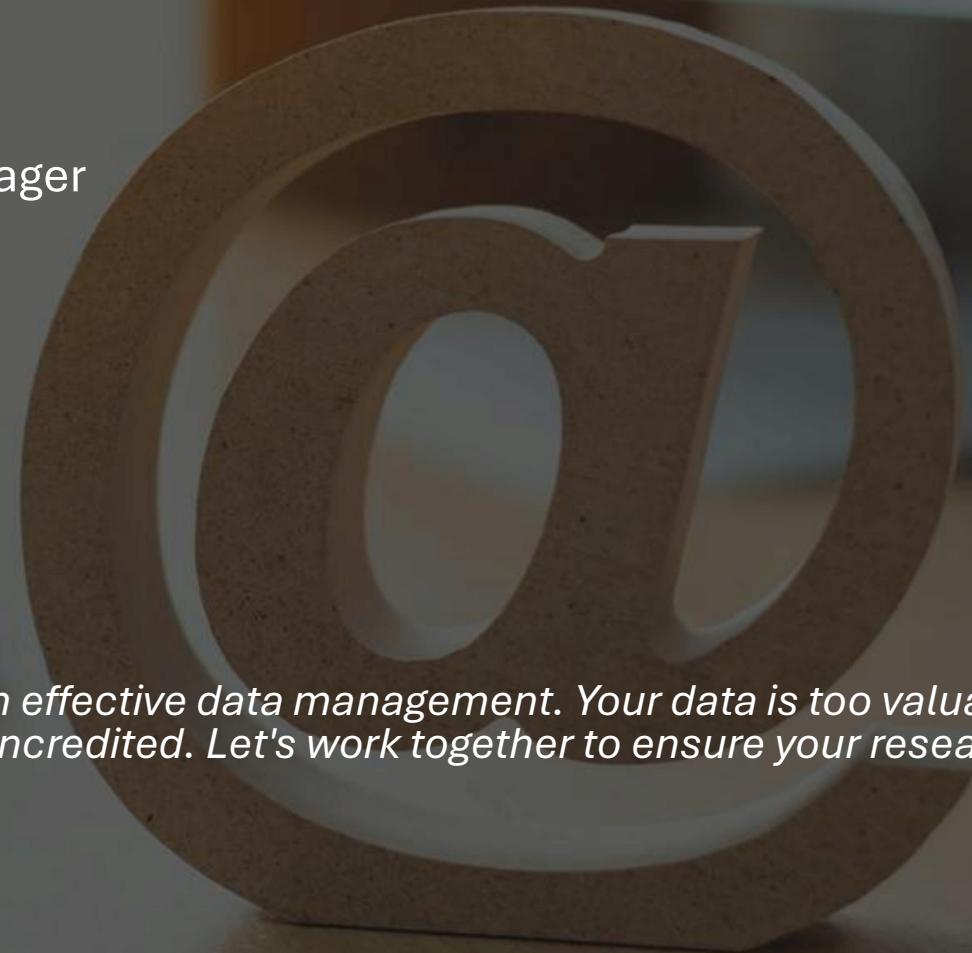
 rdm@fiu.edu | sonsanta@fiu.edu

 rdm.fiu.edu

 305-348-2470

Office: Green Library / GL811 (8th Floor)

The future of research excellence really does depend on effective data management. Your data is too valuable to lose, too important to hide, and too impactful to leave uncredited. Let's work together to ensure your research has the maximum possible impact.



References & Further Reading

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