Please keep your microphone muted until the Q&A session

DEVELOPING DATA MANAGEMENT PLANS: BEST PRACTICES & RESOURCES

RESEARCH AND FACULTY DEVELOPMENT FACULTY SUCCESS SEMINAR SERIES

Kendra Mingo, Senior Proposal Development Specialist
Office of Research and Faculty Development

Jeremy Kenyon, Research Librarian
University of Idaho Library

Please note that this session is being recorded
We provide proposal development assistance across the spectrum*

Meet goals in the UI strategic plan – grow research and creative efforts across all disciplines

Reach out to discuss ideas with us and request service – uidaho.edu/orfd

*Not including budget preparation

All services are optional and are granted on a first come, first served basis
FACULTY SUCCESS SEMINARS

FALL 2020

- Sept. 9: NSF Research Traineeship (NRT) Program: Tips for Writing a Competitive Proposal
- Sept. 23: NSF CAREER All Year: Getting Ready to Apply
- Sept. 30: NSF EPSCoR RII Track-2: Tips for Writing a Competitive Proposal
- Oct. 7: Find Funding Opportunities: Introduction to Pivot
- Oct. 21: NSF CAREER All Year: Getting Started on Your Proposal
- Nov. 4: UPDATE: Mountain West Clinical and Translational Research-Infrastructure Network (MW CTR-IN) Funding Opportunities
- Nov. 18: Myth-busting Department of Defense Funding Opportunities
- Dec. 2: M. J. Murdock Trust’s Commercialization Initiation Program: Tips for Writing a Competitive Proposal

SPRING 2021

- Jan. 13: Find Funding Opportunities: Introduction to Pivot
- Jan. 27: Funding Research and Scholarly Work in the Humanities
- Feb. 3: Idaho is an EPSCoR State - What This Means for Supporting Your Research
- Feb. 17: How to Develop and Deliver an Effective Pitch
- Mar. 3: Assessing Your Grant Readiness
- Mar. 24: Early Career Faculty Research - Grant Programs
- Apr. 7: USDA NIFA AFRI: Tips for Getting Started with Your Next Proposal
- Apr. 14: Developing Data Management Plans - Best Practices and Resources
- Apr. 28: Equipment Grant Programs: An Overview

WE GUIDE THE DEVELOPMENT OF COMPETITIVE EXTERNAL GRANT PROPOSALS

Office of Research and Faculty Development

Email: ored-rfteam@uidaho.edu
Website: uidaho.edu/orfd

ZOOM ID: uidaho.zoom.us/j/95865360877
OBJECTIVES

IN THIS SESSION, WE WILL DISCUSS:

- Overview of Data Management Plans (DMP) & funder requirements
- Elements of a good data management plan
- DMP resources and support for UI investigators
- DMP tools, templates, examples
- Q&A Session: Jeremy Kenyon, Natural Resources & Research Librarian, University of Idaho Library (from 1-1:30 p.m.)
WHY DATA MANAGEMENT?

PURPOSE OF DATA MANAGEMENT PLANS:

I Meet funder requirements
  - DMPs required within grant applications
  - Researchers required to share data collected

I Saves time and prevents data loss

I Makes it easy to share data later and increase research impact

Adapted from: MIT, 2017
“Citizens deserve easy access to the results of scientific research their tax dollars have paid for.”

Highlights of GAO-20-81, a report to congressional requesters
FUNDER REQUIREMENTS

Scholarly Publishing and Academic Resources Coalition (SPARC)
https://sparcopen.org/
CONTENT OF A DATA MANAGEMENT PLAN

1. Description of project, experiments, and data
2. Data documentation, organization and storage
3. Plans for access, sharing and re-use
4. Preservation and archiving

See Data Management @ the University of Idaho Library for resources

*NOTE: Always check and follow funder’s specific data management requirements

Adapted from: MIT, 2017
1. Project, experiments, data description

Data description
- What is it?
- How will it be collected?
- What format is it in?
- How much data will be generated?

Secondary data
- Will you use data produced by others? If so, where is it from?

Roles and Responsibilities
- Who is responsible for managing the data?
2. Documentation, organization, storage

Documentation (metadata)

- How will you document your data to make it understandable to other researchers?
- What types of information are important to describe, discover and use the data?
- What methods of metadata capture make sense given your research workflow?
- Are you using documentation/metadata standards in your field?

See Data Management @ the University of Idaho Library for more information on documentation & metadata

Adapted from: MIT, 2017
2. Documentation, organization, storage

**Organization**
- What directory and file naming conventions will you use?

**Storage**
- What are your local and backup storage procedures?
- Will these data require secure storage?
- What tools or software are required to read or view the data?

See [Data Management @ the University of Idaho Library](https://example.com) for more information on documentation & metadata.

Adapted from: MIT, 2017
3. Access, sharing, re-use

Data Sharing
- What data will be shared, when, and how?
- Will results be published in journals that require data be attached to articles?
- Will there be limits on when or how data is shared?
- Does data sharing raise privacy, ethical, or confidentiality concerns?
- What is the plan to protect data privacy?

See Data Management @ the University of Idaho Library for more information on documentation & metadata

Adapted from: MIT, 2017
3. Access, sharing, re-use

Data use

- Who holds intellectual property rights to the project’s data?
- Will any copyrighted or licensed material be used?
- Do you have permission to use or disseminate project data?
- Are there any patent or technology licensing related data restrictions?
- Will you permit re-use and redistribution of data sets, products, tools, or services from this project?

See Data Management @ the University of Idaho Library for more information on documentation & metadata.

Adapted from: MIT, 2017
4. Preservation & archiving

Archiving & preservation

- How will data be stored and preserved for long-term access?
- Will you store data in an archive or repository?
- Is a discipline-specific repository available?
- Does the sponsor require a specific repository?
- How will you prepare data for preservation and sharing?
- How long should the data be retained?

Resources

- UI – Northwest Knowledge Network
- UI – INSIDE Idaho – Geospatial Data
- Other - Re3data.org

Adapted from: MIT, 2017
DATA MANAGEMENT RESOURCES @ UI

### University Library
- Data Hub: Geospatial and Data Science Support
  - Located in the Map Room, First Floor, Rm 107
  - Collaborative work areas focused on supporting data sciences analysis and visualization
  - Service desk staffed by U of I Data and GIS Librarians
  - Other Campus Units encouraged to collocate in the Data Hub, including NKN and Statistical Consulting
- Website: [https://www.lib.uidaho.edu/datahub/](https://www.lib.uidaho.edu/datahub/)

### Other University-wide Resources
- IBEST and the Northwest Knowledge Network (ORED)
- Statistical Consulting Services (Statistics Dept)
DATA MANAGEMENT RESOURCES @ UI

Data Services at the University of Idaho Library

- **Help with your Data**

Contact Us

If you have any questions about data management, please contact **Jeremy Kenyon** or the library Reference Desk.

Data Services Team

- **Jeremy Kenyon**, Natural Resources Librarian, jkenyon@uidaho.edu, (208) 885-7955
- **Devin Becker**, Head, Data & Digital Services, dbecker@uidaho.edu, (208) 885-7040
- **Jylisa Doney**, Social Science Librarian, jylisadoney@uidaho.edu, (208) 885-0959
- **Bruce Godfrey**, GIS Specialist, INSIDE Idaho, bgodfrey@uidaho.edu, (208) 292-1407
- **Evan Williamson**, Digital Infrastructure Librarian, ewilliamson@uidaho.edu, (208) 885-6260
DMP EXAMPLES & TEMPLATES

Data Management @ the University of Idaho Library

Data Management Resources and Services
The University of Idaho Library strives to help researchers at the University of Idaho become familiar with data management practices. Library faculty endeavor to communicate information about data storage standards and protocols, metadata reporting requirements and best practices, and the requirements and recommendations of national funding bodies and/or professional associations.

Data Management Planning

Example DMPs
DMP EXAMPLES & TEMPLATES

https://www.lib.uidaho.edu/services/data/data-management/index.html#examples

Data Management Plan (DMP) Examples and Templates

**DMPTool** - helps to generate a data management plan compliant with funding agency requirements, including NSF and NIH.

**DMP Template from DataONE**

**Example Plans from UC San Diego**

**Example Plans from the Inter-University Consortium for Social and Political Research (ICPSR)** - includes examples from the natural sciences

**How to Write an NSF Data Management Plan** - From James Brunt of LTER

**NSF Data Management Plans** - A list of resources from the Association for College and Research Libraries
THE DMP TOOL

Welcome to the DMPTool
Create data management plans that meet institutional and funder requirements.

https://dmptool.org/
THANK YOU!

Find out more about Data Services at the U of I

Q&A Session: Jeremy Kenyon, Research Librarian, University of Idaho Library

Bibliography: