Navigating the NIH Data Management and Sharing Policy (DMSP): Tools for CU Researchers

https://cu-boulder-crdds.github.io/nih_dmsp_primer/

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Introduction: The NIH DMSP

- Goes into effect in January 2023
- Three components to DMSP, corresponding to different stages of project lifecycle
  - When applying for NIH grant: Data management and sharing plan (DMS Plan)
  - During NIH project: Implement data management best practices as you carry out your research
  - After project concludes: Share your data by publishing it in a public repository

Center for Research Data and Digital Scholarship

- CRDDS is a partnership between Research Computing and the University Libraries with the mission of <u>enhancing data and digital collaboration with the CU Community</u>.
- We can provide you with guidance on how to fulfill all of the NIH DMSP requirements

Writing a Data Management and Sharing (DMS) Plan

- ● DMS Plan

  - ○ Short document (~ 2 pages) that describes your plans for collecting, organizing, storing, and eventually disseminating the data that underlies your published research

  - ○ Offers researchers the opportunity to think intentionally about data management and sharing strategies

  - ○ NIH DMS plan is very similar in spirit to data management plans required by the NSF

Writing a Data Management and Sharing (DMS) Plan, cont'd

- NIH DMS plan template is still being finalized:
  - https://sharing.nih.gov/data-management-and-sharing-policy/planning-and-budgeting-for-data-management-and-sharing/writing-a-data-management-and-sharing-plan
- Main sections:
  - Data types
  - Related software and code
  - Metadata standards and data documentation strategy
  - Access, redistribution, or reuse considerations
  - Monitoring and compliance

Writing a Data Management and Sharing (DMS) Plan, cont'd

- Easiest way to generate DMS Plan is to use DMPTool

  - https://dmptool.org/

  - Brief demonstration

Data Management During a Project

- Data storage

  - OneDrive (free)

  - PetaLibrary ($45/TB/year)

  - Large file transfer service (free)

- CRDDS trainings on data management best practices and tools

  - https://www.colorado.edu/crdds/events

- CRDDS individual consultations

  - crdds@colorado.edu

  - Consult Hours (Tuesdays 12:00-1:00; Thursdays 1:00-2:00)

Data Sharing

- At the conclusion of an NIH project, data must be shared with the broader scholarly community via a public data repository
  - Not acceptable to say data will be shared upon "request"
- Privacy and ethical issues related to sharing
  - Data may have to be anonymised or de-identified before sharing in a repository (discuss in DMS Plan, and IRB protocol)
  - In some cases, restricted-access repositories may help you successfully balance privacy considerations with sharing requirements

Data Sharing, cont'd

- Numerous repository options available
    - General data repositories
    - Disciplinary repositories
    - Institutional repositories
- Exploring possible repositories for your work:
    - https://sharing.nih.gov/data-management-and-sharing-policy/sharing-scientific-data/selecting-a-data-repository
    - https://www.nlm.nih.gov/NIHbmic/nih_data_sharing_repositories.html
- CRDDS can advise on repository options

Data Sharing @ CU

- CU Scholar (CU Boulder's institutional repository)
  - https://scholar.colorado.edu/

- Policies and Submission instructions
  - Dataset policy: https://scholar.colorado.edu/terms
  - Submission: https://scholar.colorado.edu/about

- Costs
  - Free if your data is less than 500 GB
  - More than 500 GB: $450/terabyte deposit fee

- Example landing pages
  - https://doi.org/10.25810/mzt8-w960
  - https://doi.org/10.25810/y1f2-j085

Questions? Comments? Suggestions?

We want to hear from you! Email:
crdds@colorado.edu

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Thank you!