Our data management curriculum can be offered in a variety of formats, including stand-alone workshops or as a series, individual assignments for use in your course, and self-study tutorials and resources. The curriculum covers the following topics:

- Emerging Data Policies & Standards
- Data Management Planning
- Organizing Data & Files
- Quality Assurance & Control
- Data Entry & Coding
- Documentation & Record-keeping
- Rights & Permissions
- Attribution & Citation
- Ethical & Legal Obligations
- Reuse & Reproducibility

We offer consultations customized for your needs in one-on-one or group settings, free of charge.

- Share data to comply with publisher data availability policies
- Develop and implement a plan for managing your data in compliance with federal funding agency policies
- Manage your data to improve efficiency, for you or your research team
- Manage and preserve your data for reuse - by yourself, your colleagues, or students
- Manage and share your research process according to the principles of open science

Through our data repository (IUPUI DataWorks), we can make your data findable, citable, and connected to your publications. These features enable you to evaluate and report the impact of your data as part of your total scholarly output.

- Register your data to improve findability
- Share and register your data (DOI) to get credit through citation and other metrics
- Enable others to build on your work
- Support scientific integrity by enabling replication, validation, and correction of your published findings

Enabling transformation

<table>
<thead>
<tr>
<th>From data that are:</th>
<th>To structured datasets that are:</th>
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<tbody>
<tr>
<td>Unmanaged</td>
<td>Managed</td>
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<tr>
<td>Connected</td>
<td>Connected</td>
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<tr>
<td>Invisible</td>
<td>Findable</td>
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</tbody>
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Enabling transformation

To structured datasets that are:

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Consultation

Data Registration & Sharing

Education & Training
Research Data Management Plans

Funding agencies like NSF, NIH, NOAA, publishers, and research communities recognize the importance of well-managed data in facilitating interdisciplinary research, addressing the “grand challenges” and ensuring the integrity of research products. As researchers explore new tools and strategies, streamline workflows, and plan to share data with their research community, many experience improved efficiency and communication in their research. We can support this by:

• developing or refining a data management plan for a new study
• implementing new processes or tools within an ongoing project
• developing a data management plan for a team
• providing solutions for specific problems related to data storage, organization, documentation

The National Library of Medicine mechanism administrative supplements for informationist services enable information professionals to apply their skills towards solving project-specific challenges.

Example 1: An example from UCLA included support for study and improvement of workflows for organizing, managing research data, identify metadata standards and ontologies that are appropriate, and propose a strategy for preserving the data.

Example 2: An example from NYU included support to establish a data model and data dictionary for searching and sharing data from a complex set of surveys including cognitive/medical and imaging data from experiments.

Keeping Research Data Safe

Digital data, unlike paper-based materials, are extremely fragile and at risk of loss due to technological obsolescence, corruption, and natural disasters. In order to ensure continuing access to valuable and unique research data, we must take reasonable action. We can support continuing access by:

• archiving data to robust and secure storage
• preserving data for reuse (benefits of well-managed data for internal/team/collaborator reuse)
• sharing data in a controlled manner (limited data sets, upon request, etc.)
• sharing data openly (examples of data that are well-managed and curated for public reuse: oceanic data, genomic data, social surveys)

Contact Us

We can help with:

• Data management & sharing plans
• Individual consultations
• Workshops & classes
• Data sharing & reuse
• Open science/research tools

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