Research Data

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Agenda

Data management during the research lifecycle

Campus services & policies

Grants funder mandates

Data management project planning

Data management tools & resources
Data Management During the Research Lifecycle

Each of the boxes above represents a stage in the research lifecycle for a given project. Transitions between stages involving project data (solid black arrows) are vulnerable to data loss. These phases are often coincident with shifts in responsibility for the data (e.g., from data collector to data analyst, or from graduate student to PI), which makes transitions a critical time for active data management. Data loss may occur in many other ways, for various reasons: data are unusable due to lack of necessary contextual details (lack of sufficient documentation/metadata); failure to move data to the next stage, reaching a dead-end prior to systematic preservation; bit rot or other digital degradation; or data are physically misplaced. The lifecycle model is used to provide context in describing data stewardship activities that should take place over the course of a research project.
Campus Services

1. Stony Brook Research
2. Data management plans for proposals
3. Archive and share articles, reports, manuscripts & data with Academic Commons
4. Did you invent or create something? See the Office of Research Licensing & Patents, and the Licensing & Patenting FAQ
5. Workshops and training
   - Training - Stony Brook Research
   - Data management workshop (check the schedule)
   - Responsible conduct of research training (ORC)
   - Training by request
9. Need help with new technologies (clickers, PowerPoint, Blackboard, etc.)? DoIT can help!
Campus Policies

1. Data Stewardship & Retention
2. Institutional Review Board
3. Intellectual Property
4. Responsible Conduct of Research
Data Stewardship

Data generated by research projects at or under the auspices of Stony Brook University are owned by the University. However, the principle investigator (PI) is responsible for retention, preservation, distribution, and control of the data.

The PI is responsible for data stewardship in the following areas:

- the identification, collection, management and retention of research data as custodian for the University;
- ensuring that, for all aspects of their research program, sufficient records are kept to document the experimental methods and accuracy of data collection as well as the methods and accuracy of data interpretation. Records should be sufficient to enable a retrospective audit, if necessary.

Research data must be archived for three years after the closeout, final reporting or publication of a project, with original data retained wherever possible. Additional data sharing and/or archiving requirements may be imposed by the sponsoring agency; the PI is responsible for complying with such requirements.
Institutional Review Board

If your work involves human subjects, you may need to limit the extent of the research that you share to protect the rights and privacy of individuals per SBU IRB policies. Funding agencies recognize the need to adhere to these policies and regulations. Your data management plan should explicitly state which information you are not sharing due to IRB concerns; it is also important to share some form of your data.

Contact the Office of Research Compliance with questions about human subjects regulations. SBU Libraries Research Data Services can assist you with anonymization.
The Office of Stony Brook Research defines intellectual property as, “a legal concept that includes copyrights, trademarks, patents, and related rights, such as know-how. Under intellectual property law, the holder of one of these abstract “properties” has certain exclusive rights to the creative work, commercial symbol, or invention which is covered by it.” The creation of intellectual property during the course of your research may have implications on if and when your data will be shared. NSF allows the retention of intellectual property to the grantees, but that does not preclude sharing of results, data, and collections with other researchers (see NSF Data Sharing Policy, in Part VI of the Award and Administration Guide, Section D.4.d, Intellectual Property, Dissemination and Sharing of Research Results).
Responsible Conduct of Research

Funding agencies including the NSF and HHS mandate training in the responsible conduct of research (RCR). Data management activities overlap with many core areas of RCR because data are so integral to the research process. For a complete, self-guided RCR instruction module on data management, see here.

Please visit the DHSS Office of Research Integrity/ Data Management site here.

For more information on data copyright and licensing, and links to SBU policies, see Copyright & Licensing.
funder mandates
project planning
resources & tools
Thank You!

Any Questions?

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