Plan Overview

A Data Management Plan created using DMP Tool

Title: NeurodiVR: Data Management Plan

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Funder: National Science Foundation (nsf.gov)

Funding opportunity number: NSF 16-581: Information and Intelligent Systems (IIS) Cyber-Human Systems (CHS)

Template: NSF-CISE: Computer and Information Science and Engineering

Last modified: 07-08-2024

Copyright information:

NeurodiVR: Data Management Plan

Roles and responsibilities

The Data Management Plan should clearly articulate how the PI and co-PIs plan to manage and disseminate data generated by the project. The plan should outline the rights and obligations of all parties as to their roles and responsibilities in the management and retention of research data, and consider changes that would occur should a PI or co-PI leave the institution or project. Any costs should be explained in the Budget Justification pages.

Co-PI Benton will have primary responsibility for organizing, managing, and disseminating data generated by the project. He is an Associate Professor in Information and Knowledge Management (IKM) in the Department of Integrated Science and Technology (ISAT) at James Madison University (JMU).

Adherence to the DMP will be monitored on a quarterly basis, and adjustments to the plan to ensure continuity of data management or reproducibility of results will be recorded on our web site at http://neurodivr.org.

Types of data

The Data Management Plan should describe the types of data, samples, physical collections, software, curriculum materials, or other materials to be produced in the course of the project. It should then describe the expected types of data to be retained and shared, and the plans for doing so. The DMP should cover how data are to be managed and maintained during the project.

This project will produce characterized by small, heterogeneous datasets (2-3 Google spreadsheets per hypothesis, 20 total hypotheses, <500 KB each for a total not in excess of 30 MB). All variables will be categorical or quantitative. There will be no audio, video, or other complex file types. Data captured by external tools (e.g. the NASA TLX mobile app) will be downloaded and stored in spreadsheets. Questinable data will be flagged, but not deleted.

Original demographic and RAADS-R data on participants will not be made public, but will be cleaned to remove personally identifiable information. The public version of the data will be posted to the project web site.

The data will be processed using the R Statistical Software. Interfaces for data exploration will be written using R Shiny. Any new code that is written to process the data will be captured and published as a new R package for use by the academic community.

Policies for access and sharing and appropriate protection and privacy

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The Data Management Plan should describe the period of time the data will be retained and shared; factors that limit the ability to manage and share data, e.g., legal and ethical

restrictions on access to human subjects data; and provisions for appropriate protection of privacy, confidentiality, security, and intellectual property.

There are no known embargo periods that must be followed.

The PI/Co-PI and graduate student retain the rights to use the data during the period of funding (through 5/31/2020). At the completion of the funding period, the data will be made available to other researchers through the project web site.

Personally identifiable data will NOT be made available to any other researchers. Data that is necessary for analysis will be blinded, but the researchers will retain the original data and only the blinded data will be shared. This is done to protect the identities of the neurodiverse participants in the study.

Data storage and preservation of access

The Data Management Plan should describe the mechanisms and formats for storing data and making them accessible to others, which may include third party facilities and repositories; and other types of information that would be maintained and shared regarding data, e.g. the means by which it was generated, detailed analytical and procedural information required to reproduce experimental results, and other metadata.

The data for this project is not expected to exceed 30 MB. All data will be made publicly available through the project web site at http://neurodivr.org after the completion of the project period; the PI/Co-PI agree to pay the $12/yr to keep the domain active.

Additional possible data management requirements

Note that individual solicitations may have additional data management plan requirements. If guidance specific to the program is not available, then the requirements established in the Grant Proposal Guide apply.

None known.

The PI/Co-PI plan to consult with the Center for Open Science in Charlottesville, VA during the first year of the project to ensure that all steps are taken to ensure reproducibility of analysis.