DATA MANAGEMENT AND SHARING PLAN

If any of the proposed research in the application involves the generation of scientific data, this application is subject to the NIH Policy for Data Management and Sharing and requires submission of a Data Management and Sharing Plan. If the proposed research in the application will generate large-scale genomic data, the Genomic Data Sharing Policy also applies and should be addressed in this Plan. Refer to the detailed instructions in the application guide for developing this plan as well as to additional guidance on [sharing.nih.gov](https://sharing.nih.gov/). The Plan is recommended not to exceed two pages. Text in italics should be deleted. There is no “form page” for the Data Management and Sharing Plan. The DMS Plan may be provided in the *format* shown below.

Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering, and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to: NIH, Project Clearance Branch, 6705 Rockledge Drive, MSC 7974, Bethesda, MD 20892-7974, ATTN: PRA (0925-0001 and 0925-0002). Do not return the completed form to this address.

**Element 1: Data Type**

1. **Types and amount of scientific data expected to be generated in the project:**

Demographic, Clinical and Non-Clinical Survey, Behavioral, MRI, and fMRI imaging data will be acquired from 60 healthy adults ages 18 - 85. All data will be deidentified prior to receipt by the repository, but the information needed to generate a global unique identifier for the NIMH Data Archive (NDA) will be collected for each subject.

1. **Scientific data that will be preserved and shared, and the rationale for doing so:**

Sufficient data from this project will be preserved to enable sharing via NDA data of sufficient quality to validate and replicate research findings described in the Aims. NIMH requires data measured from human subjects to be shared using the NDA.

1. **Metadata, other relevant data, and associated documentation:**

In addition to the subject level data described above, all fMRI task related paradigm designs, experiment definitions, and survey questions will be deposited in the NDA.

**Element 2: Related Tools, Software and/or Code:**

The fMRI data will be analyzed with custom Python code written using the nltools, numpy, and pandas packages, all of which are freely available. The demographic, survey, and behavioral data will be analyzed with custom R code using the lme4, tidyverse, and gee suite of packages, all of which are also freely available. fMRI task designs were built with custom Python code using PsychoPy. All code will be shared on our GitHub lab website. The code can be found by searching for “wj-mitchell” on GitHub. The main readme.md file for the project will also include instructions and parameter choices for the GUIbased analyses.

**Element 3: Standards:**

MRI and fMRI data will be organized and stored following the standard BIDS format. Clinical and non-clinical survey data was collected using the following measures:

* Intolerance of Uncertainty – 27 Item Scale
* State-Trait Anxiety Inventory – 40 Item Scale
* Beck Depression Inventory – II Mini – 12 Item No-Suicidality Scale
* Personal Need for Structure – 12 Item Scale
* Need for Closure – 15 Item Scale
* Self-Concept Clarity – 11 Item Scale
* Obsessive Compulsive Inventory (Revised) – 17 Item Scale

**Element 4: Data Preservation, Access, and Associated Timelines**

1. **Repository where scientific data and metadata will be archived:**

All data will be deposited to NDA starting 12 months after the award begins and will be deposited every six months thereafter following the usual NDA data submission dates.

1. **How scientific data will be findable and identifiable:**

Data will be findable for the research community through the NDA Collection that will be established when this application is funded. For all publications, an NDA study will be created. Each of those studies is assigned a digital object identifier (DOI). This data DOI will be referenced in the publication to allow the research community easy access to the exact data used in the publication.

1. **When and how long the scientific data will be made available:**

The research community will have access to data when the award ends. As required by NDA, studies will also be created that contain the data used for every publication. Those studies will be shared when the pre-print is available. NDA studies have digital object identifiers (DOI) to aid in findability. We will include that DOI in relevant publications. NDA will make decisions about how long to preserve the data, but that data archive has not deleted any deposited data up to now.

**Element 5: Access, Distribution, or Reuse Considerations**

1. **Factors affecting subsequent access, distribution, or reuse of scientific data:**Some data collection has already occurred for this project. These participants will be recontacted in an effort to acquire their consent for broad data sharing. Every reasonable effort will be made to recontact these participants. All subsequent research participants will be consented for broad data sharing.
2. **Whether access to scientific data will be controlled:**To request access of the data, researchers will use the standard processes at NDA, and the NDA Data Access Committee will decide which requests to grant. The standard NDA data access process allows access for one year and is renewable.

1. **Protections for privacy, rights, and confidentiality of human research participants:**

The NDA GUID tool allows researchers to aggregate data from the same research participant without different laboratories having to share personally identifiable information about that research participant. The NDA data dictionaries do not permit personally identifiable information to be shared. NDA maintains a Certificate of Confidentiality.

**Element 6: Oversight of Data Management and Sharing:**

Monitoring of and compliance with this Data Management and Sharing Plan will be the responsibility of the project’s Principal Investigator. The plan will be implemented and managed by professional staff working under the direction of the PI.