## Plan Overview

*A Data Management Plan created using DMPTool-Stage*

**DMP ID:** https://doi.org/10.48321/D13892

**Title:** Copy of FAIR Hackathon Workshop for MPS research communities

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**Template:** NSF-PHY: Physics

**Project abstract:**

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## Copy of FAIR Hackathon Workshop for MPS research communities

Publication: The project will produce a final report for the workshop. The reports will be made publically available right after NSF's approval. The workshop project will have its own web site devoted to the workshop, auxiliary information, etc.

Data Types and Privacy: The project website will serve as a communication channel with workshop participants and the broader community of
interest and be linked to a workshop project space on the open science framework(osf.io) to facilitate sharing of code and examples through github connections during the workshop and its hackathon brekaouts. We will use and encourage participant use of standardized, interchangeable, or open formats to best ensure the long-term usability of data.

Access & Sharing: We will share the digital assets created for this workshop with researchers including any outputs gathered or created in the course of work and facilitate access by posting the final report and workshop information on our project website which will be linked to a project page for the workshop on the Open Science Framework.

Policies for re-use: We will make the final report and any digital assets created for the workshop available for re-use under a permissive license like Attribution-ShareAlike 4.0 International.

Plans for archiving and preservation: We will deposit a preservation copy of the final report on our institutional repository Curate.ND.edu Notre Dame's institutional repository, which will remain accessible for at least 5 years following completion of the project regardless of whether the PI(s) are still affiliated with the university.

Data Retention:

Final report will be preserved in Curate.ND.edu for a minimum of five years.

Project website will be served through the
University of Notre Dame's Center for Research Computing (CRC). As a CRC-managed service, the project's website will be protected logistically and physically at the CRC's data center. The project website will be hosted by the CRC as long as required by the community. The PI will utilize also the ND CRC storage resources according to the CRC's published policies. Specific to this project, this includes: the utilization of up to 4TB of redundant distributed (network) storage, nightly offsite backup, and basic web service of data sets residing in said storage. For more information please see:
http://crc.nd.edu/index.php/aboutcrc/policies.

Workshop assets stored on osf projexct space are protectex by the COS $250,000 preservation fund for hosted data in the event that COS has to curtail or close its offices. If activated, the preservation fund will preserve and maintain read access to hosted data. This fund is sufficient for 50+ years of read access hosting at present costs. COS will incorporate growth of the preservation fund as part of its funding model as data storage scales.

For workshop assets on OSF Storage, files are stored in multiple locations and on multiple media types. OSF keeps three types of hashes (MD5, SHA-1, SHA-256) for files. OSF keesp parity archive files to recover from up to 5% bit error. OSF uses Google Cloud for active storage and Amazon Glacier as a backup location. File backups are hosted at Glacier, and there are daily backups on Google Cloud for 60 days. The OSF database is backed up via streaming replication 24 hours a day, and incremental restore points are made twice daily. Further, the OSF

database is maintained in encrypted snapshots for an additional 60 days. Database backups are verified monthly.Operational data (e.g., config files) for other OSF services are backed up in primary cloud file storage for 60 days.OSF Logs are primarily stored in Google Cloud cold storage indefinitely. In certain cases a third party aggregation service is used for up to 90 days, then backed up to Amazon S3 indefinitely.

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