

## Plan Overview

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*A Data Management Plan created using DMPTool*

**DMP ID:** <https://doi.org/10.48321/D12W76>

**Title:** DMSP for "IMPLEMENTATION: Expanding demographic diversity in the study of species diversity"

**Creator:** Cristo Yanez leon - **ORCID:** [0000-0002-0930-0179](https://orcid.org/0000-0002-0930-0179)

**Affiliation:** New Jersey Institute of Technology

**Principal Investigator:** Daphne Soares

**Contributor:** Cristo Leon

**Funder:** National Science Foundation (nsf.gov)

**Funding opportunity number:** 22-542

**Grant:** <https://www.nsf.gov/pubs/2022/nsf22542/nsf22542.pdf>

**Template:** NSF-BIO: Biological Sciences

### **Project abstract:**

There is a general agreement on the lack of diversity in science. In the past few years, it has become clear that intellectual contributions from scientists with different backgrounds enhance and expedite the outcomes of the scientific endeavor in general. One major question remains, how to design and implement strategies to promote and integrate diversity? One approach is the use of scientific societies to drive change. To this end, we designed various activities through the J. B. Johnston Club for Evolutionary Neuroscience (JBJC) to provide a testbed for implementing strategies to enhance the membership and participation of people from underrepresented groups

(URGs). The activities proposed here are designed to improve the extent to which people from URGs can be integrated into the fabric of our club. We will test seven initiatives: 1) providing financial and social support for students from URGs, 2) the training of mentors on the intricacies of mentoring itself, 3) a mentoring program where a student and a faculty maintain regular contact, 4) a yearly talk from a speaker from a URG to highlight their science to our members, 5) support for affinity groups to meet and interact, and 6) opportunities for students from URGs to do research in the laboratories of JBJC members during the summer with a follow-up presentation during our yearly meeting. Our seventh initiative is to hold our annual Fall meeting in a Historically Black College or University or Hispanic Serving Institution, and we will make attendance at the meeting free to faculty and students of that institution. Most of the proposed initiatives have been shown in the literature to improve the environment for people from URGs, but the synergy between them is yet to be described. The success of each initiative will be evaluated regularly, with predetermined benchmarks, and an overall integrative correlation assessment will be used to determine effectiveness. Changes will be implemented in the subsequent years following data analyses. Results will be communicated to the JBJC membership annually and to the broader scientific community through the JBJC website, Twitter, journal articles, and scientific presentations at larger organizations. Because JBJC is a small organization, it can be flexible, and changes can occur quickly. Thus, we are in a unique position to test these implementation initiatives.

**Start date:** 01-01-2024

**End date:** 12-31-2026

**Last modified:** 06-29-2023

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## **DMSP for "IMPLEMENTATION: Expanding demographic diversity in the study of species diversity"**

### **Data and Materials Produced**

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**Describe the types of data, physical samples or collections, software, curriculum materials, and other materials to be produced in the course of the project. (For collaborative proposals, the DMP must cover all the various data types being collected by each collaborator.)**

All data will consist of text documents, spreadsheets, Google Forms and Google surveys, as well as analyzed data that can be read in Various software platforms, such as R, Matlab, Excel. We do not expect to generate data or information which would be considered privileged or confidential during the proposed project.

### **Standards, Formats and Metadata**

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**Describe the standards to be used for all the data types anticipated, including data or file format and metadata. [Note: Where existing standards are absent or deemed inadequate, this should be documented along with any proposed solutions or remedies.]**

Data formats will include: .RData, .xls, .csv, Google Doc, .docx.

All metadata will be included in archiving. All stored electronic data, updated frequently, will be continuously backed up to external (including cloud-based) media.

### **Roles and Responsibilities**

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**Describe the roles and responsibilities of all parties with respect to the management of the data (including contingency plans for the departure of key personnel from the project).**

At the start of the project, we will develop and agree upon a common pipeline for data acquisition, management, and sharing among team members. Although we don't anticipate any problems, PI Soares will hold ultimate decision-making authority if any cases of dispute arise.

## Dissemination Methods

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**Describe the dissemination methods that will be used to make data and metadata available to others during the period of the award, and any modifications or additional technical information regarding data access after the grant ends.**

Until publication, only members of the grant proposal will have full access to data. All raw data (surveys) and metadata used for any publication will be shared and open to public use through Open Science Framework (OSF) “registration” feature. OSF registration creates a frozen version of the project (including data, notes, and timeline) that can never be edited or deleted and is citable by DOI. Data stored on the OSF is backed by a \$250,000 preservation fund that will provide persistence even if the Center for Open Science runs out of funding. We will also share our data upon request via the NJIT data storage server. To gain access, interested parties must contact the PI or the corresponding authors. With detailed notebooks and metadata, we will be able to assign credit to contributors of any research material - tools, analysis scripts, methods, measures, and data. There are no privacy (human subject), copyright, or license restrictions on project data, in the US or otherwise, as far as we know. Data will be free for non-commercial use, conditioned on citation of original team publication. Supplemental Information sections of journal articles will be used extensively to disseminate experimental details.

## Policies for Data Sharing and Public Access

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**Describe the PI’s policies for data sharing, public access and re-use, including re-distribution by others and the production of derivatives. Where appropriate, include provisions for protection of privacy, confidentiality, security, intellectual property rights and other rights.**

The DMP acknowledges the need for the OSTP Memorandum[1] August 25, 2022, digitally formatted scientific data resulting from unclassified, publicly releasable research supported wholly or in part by NSF funding should be stored and publicly accessible to search, retrieve, and analyzed to the extent feasible and consistent with applicable law and policy; agency mission; resource constraints; and U.S. national, homeland, and economic security.

[1] <https://www.whitehouse.gov/wp-content/uploads/2022/08/08-2022-OSTP-Public-Access-Memo.pdf>

## Archiving, Storage and Preservation

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Where relevant, describe plans for archiving data, samples, software, and other research products, and for on-going access to these products through their lifecycle of usefulness to research and education. Consider which data (or research products) will be deposited for long-term access and where. (What physical and/or cyber resources and facilities (including third party resources) will be used to store and preserve the data after the grant ends?)

Short-term data storage will take place on local computers at NJIT, Stoney Brook, and CUNY computers. All lab computers back up daily to a local Network Associated Storage unit followed by a deep backup to NJIT servers for long-term storage. We will organize and archive some of the data (and all published data, see above) in the Open Science Framework system.

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## Planned Research Outputs

Text - "Pending article"

PI will seek to disseminate research findings in a timely manner via peer-review article.

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### Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Pending article	Text	2026-12-30	Open	Open Science Framework		Creative Commons Attribution Non Commercial 4.0 International	Dublin Core	No	No