This contribution was submitted to the National Science Foundation as part of the NSF CI 2030 planning activity through an NSF Request for Information, https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf17031. Consideration of this contribution in NSF’s planning process and any NSF-provided public accessibility of this document does not constitute approval of the content by NSF or the US Government. The opinions and views expressed herein are those of the author(s) and do not necessarily reflect those of the NSF or the US Government. The content of this submission is protected by the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode).

Author Names & Affiliations

- Sarah Brown-Schmidt - Vanderbilt University

Contact Email Address (for NSF use only)

(Hidden)

Research Domain, discipline, and sub-discipline

Humans, Psychology, Psycholinguistics

Title of Submission

Raw data storage

Abstract (maximum ~200 words).

Cognitive science, including psycholinguistics, would benefit from field-wide standards for free and public datasharing as well as a standard public repository for data sharing.

Question 1 Research Challenge(s) (maximum ~1200 words): Describe current or emerging science or engineering research challenge(s), providing context in terms of recent research activities and standing questions in the field.

Replicability of experimental findings and public dissemination of experimental findings, regardless of effect direction and size, are key challenges. Institutional support and pressure to publicly share data would help resolve some of these issues.

Question 2 Cyberinfrastructure Needed to Address the Research Challenge(s) (maximum ~1200 words): Describe any limitations or absence of existing cyberinfrastructure, and/or specific technical advancements in cyberinfrastructure (e.g. advanced computing, data infrastructure, software infrastructure, applications, networking, cybersecurity), that must be addressed to accomplish the identified research challenge(s).

There are public domains for data sharing but there is not a field standard for which repository to use. It would be useful to have public support for the use of and maintenance of such repositories.
Consent Statement

- "I hereby agree to give the National Science Foundation (NSF) the right to use this information for the purposes stated above and to display it on a publically available website, consistent with the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License (https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode)."