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Effects of Multisensory Input on Numerical Representations of Diverse-SES Preschoolers

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Data Management Plan

This plan describes how the PI will manage and disseminate data generated by the project.

Data to be generated by this research include measurements such as accuracy and response time to react to stimuli or questions viewed on a computer screen. This program of research will also produce software programs to run these experiments and record these data. These raw data will then generate preliminary and final statistical analyses, followed by drafts of scientific papers for journals and conferences, and communications with colleagues regarding paper drafts and plans for future research. Demographic data will also be obtained from the participants of this research, such as gender, age, and SES. A demographic survey given to parents of children in the studies also asks about mother and father's race, education level, language spoken at home, and occupation. Some of the scientific journals that we aim to publish our reports in request that information.

The following is our plan to retain, manage and share the results of our data:

First, regarding demographic data, published reports will not mention individual participants by name. Participants are assigned a participant number and data are published in group-form only. Research records will be kept confidential, consistent with federal and state regulations. Each participant's name will be replaced with a code number to protect privacy. Only the researchers working on this proposal will have access to this information, which will be stored in a locked file cabinet in a locked room of our laboratory on campus at USU. We will only report results of the whole group who were in this study; names will not appear in any final or
published reports.

The expected types of data to be retained include all data generated by the project as described above. Except for the demographic data, which will be kept in a locked file cabinet as aforementioned, these data will be stored on multiple lab password-protected hard drives and will be backed up at least every two weeks on institutional servers. These particular data-retention hard drives are not connected to the Internet to protect corruption from viruses, etc. The period of data retention will be three years after the award expires for all data except any identifying information (e.g., the code list); per IRB standards, these identifying pieces of data must be destroyed after three years from data collection. The data will be presented at national and international conferences and published in academic journals for dissemination purposes.

We will plan to share with other interested researchers the primary data created under this grant and utilize resources such as Open Science Framework. These data include raw measurement files, software programs, and drafts of papers/conference presentations. This sharing of data will allow interested members of the community to evaluate our results and help with new advances. This sharing will of course not include confidential participant information, such as that which could be used to identify a particular participant in a research study.

Further, our research team will promptly prepare and submit for publication, with authorship that accurately reflects the contributions of those who performed the work, all significant findings from data collected under this grant.