Data Management Plan

All publicly funded research should be made accessible to the public and other researchers so that findings are tractable, transparent, and reproducible. Over the course of my dissertation training, I have integrated open access to every stage of the scientific process using the Github platform (Noble 2009; Michener 2015). Each project that is a publishable unit will be arranged by tasks associated with the scientific method in the following folders: *data*, *analysis*, *results*, and *documentation*. All raw and processed data accompanied with metadata will be stored in the *data* folder. Physical copies of raw data in data collection notebooks will be copied and stored in three separate locations. The analysis folder will hold my scripts for which I analyzed. Outcomes of the analyses and associated figures will be stored in the *results* folder. Protocols and manuscripts will be stored in the *documentation* folder. For greater transparency, a *notebook* and *readme* file will accompany the project folder. The *notebook* will log daily activities and the *readme file* will outline in detail, the project layout and file descriptions. To ensure reproducibility and repeatability, the whole project will be accessible via Github (https://github.com/adnguyen). Lastly, whole projects will be backed up on two physical hard drives, alos stored in separate locations.

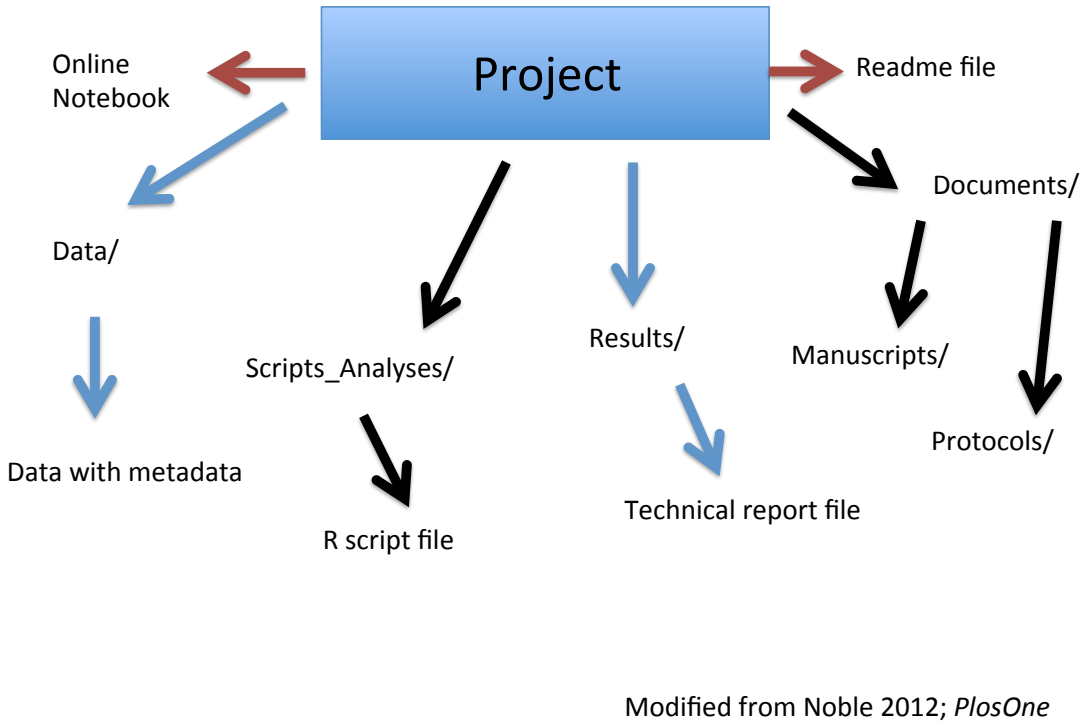

Figure 1. Schematic of project layout of the proposed work.