Data are part of our everyday lives and act as the fundamental source and output of science. For instance, every decision we make in our day-to-day lives is because of the analysis our brain has done using past experiences as a data source. Researchers consume vast amounts of data in research and look for patterns to make sense of them. Therefore, good quality and quantity of data help to improve research quality and grant value as well as aid in the progress of scientific developments. Young researchers (Leeming, 2016b) and grad students should strongly consider developing a thoughtful plan to manage data at the inception of their research projects. Fortunately, data management technology is continuously improving and helping students develop beneficial data management skills.

What Is a Data Management Plan?

Agricultural researchers in the 21st century must develop good data management skills and understand how to use well-managed, accessible, interpretable, and safe data-sharing platforms to be productive professionals. However, several unknowns still exist regarding research quality and the need for a better management plan in young researchers. In data collection and validation, the major issues of data use are data suitability, transparency, quality, flexibility, and access. By improving data management skills, young researchers can enhance the impact of their own publications and careers (Leeming, 2016a). Effective data management allows researchers to save time and energy when collecting new data. A well-quality data management plan, using modern techniques, helps researchers better keep track of data (Leeming, 2016a).

Why Is it Important for Students to Develop these Skills?

Publishing data online can lead to collaborations and increased citations (Swets et al., 2000). Through the use of published data, researchers can collaborate to build innovative tools and predictions, which can help market you and your research. Online data sharing also makes data available anytime and increases prospects for jobs and other professional opportunities. However, open source data sharing is a recent development in science, and one of the major concerns lies in how to safely share data. Coming up with an appropriate data protection plan beforehand is crucial (Swets et al., 2000). While technology and science are developing fast and continuously, every single method and material that we use to organize our schedules, work, science, etc., are also modified or replaced. These continuous technological developments brought us into online Modern Academic Data Library and Management Using Geo-Computing Technologies by Ekrem Ozlu and Avjinder Kaler.

Modern Academic Data Library and Management Using Geo-Computing Technologies

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