Fear and Loathing on the FAIR Data Trail: Ideas on How to Get from Self Burden to Self-Benefit

Compliance with FAIR data requirements has appeared a daunting and dangerous prospect for many condensed matter experimentalists on the Magnet Lab User Advisory committee. How then do we transform might otherwise be another burdensome, self-sacrificing task to a demonstrably self-benefiting endeavor? In this talk I provide some examples of how I use the OSF.IO "Open Science Framework " as a shared research notebook and data repository for easier data recovery and more easily modifiable and reproducible data analysis, then suggest ways the Magnet Lab might make facilitate the documentation and storage of that which actually makes the data useful — metadata on everything from measurement units and amplifier gains to the tracking of samples, sensor calibrations, probe use, and instrumentation setups — so that less work is required and more value is added.