Reproducible Computational Workflows

Date/times/location/instructor:
Friday 12:40 PM - 2:30 PM in 1455A, BPS, A. Fullard

Prerequisites: Intro to Linux ICER workshop (or equivalent experience). Basic knowledge of a programming language such as Python or R preferred but not required.

Contact: Dr. Andrew Fullard (fullarda@msu.edu) for any questions

Course description:
What can a reproducible computational research workflow do for you?

- Automation can make your research faster!
- Research is a collaborative process. Sharing data and processes in research teams is often difficult and slow, but it doesn’t have to be!
- It will make it easier to reproduce your research!
- It will help you manage your data!
- You can easily keep track of changes to your data and processes!

This course will teach you the basics of data analysis workflows, from planning through to creation. You will understand modularity, automation, data structures, version control and code design for research data and software.

By the end of the course, you will have produced a useful data analysis workflow that you can immediately apply to your research!