Reproducible Data Science for Biologists
Wyoming INBRE Data Science Core

We are running a 8 week-long workshop on reproducible data science and publishing from June 22 through August 10. The meetings will be held for up to 2 hours (venue dependent on number of participants) starting at 9am. This is a continuation of our Summer of Code program, but is being held in person this year. All skill levels are welcome and you may pick and choose which sessions to attend. Registration and a brief pre-workshop survey is mandatory. Please register at https://ibc.uwyo.online/rds.

Note: If any of the participants are also attending our T3 workshop from July 9-16, no session will be held that week.

Workshop Contents

June 22: Version Control 1
Git/GitHub Basics, SSH Authentication, Efficient Project Management

June 29: Version Control 2
Collaboration, Forking, Push/Pull Requests, Restoring Previous Versions

July 6: Creating R Package
Developing your R code into a Package: Examples and homework exercises

July 13: Publishing & Maintaining R Package
Repositories: CRAN, Bioconductor, Github; Keeping Your Package Up to Date

July 20: Markdown and RMarkdown
Essential skills in making your workflow reproducible

July 27: Bookdown and Blogdown
Publishing platforms for larger projects

August 3: Popular R Packages
A Brief Introduction to 5 popular, Data Science Packages

August 10: Typesetting is not Dead
Using \LaTeX to Create Elegant Documents