

# 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

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### **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  $\text{\LaTeX}$  to Create Elegant Documents