Proposed Agenda for ASM R Workshop – Purdue 2025

1. R OVERVIEW
   * Brief intro to coding/R
     1. Layout of Rstudio
     2. How r integrates with your system
     3. R projects
   * Best coding practices
     1. Folder structure
     2. Comments & headers
     3. Tidy coding
2. R MARKDOWN
   * Brief intro to R markdown
     1. Differences from a script
     2. Code chunks
     3. Formatting
     4. Knitting
     5. Benefits/uses for reproducible and collaborative research
   * Walkthrough prepared file (mock analysis as .rmd)
   * Practice with R markdown

5-10 min BREAK

1. GITHUB
   * Overview of Git & GitHub
   * Benefits/uses for reproducible and collaborative research
   * Clone a GitHub repository
   * Make GitHub repository for course materials
2. TIDY DATA
   * What is the “tidyverse”?
   * What is a “tidy” dataset?
   * Accessing data in a tidy dataset (let’s play!)