Proposed Agenda for ASM R Workshop – Purdue 2025

1. OVERVIEW
   * Walkthrough a basic prepared R script – maybe a fake analysis?
   * Brief intro to coding/R
     1. Layout or Rstudio
     2. Packages/libraries
     3. How r integrates with your system
     4. R projects
   * Best coding practices
     1. Folder structure
     2. Comments & headers
     3. Tidy coding
        + Potential practice assignment/problem?
2. R MARKDOWN
   * Walkthrough prepared file (copy of earlier script as .rmd)
   * 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
   * Have them generate a new R markdown file from the practice assignment code/script they did earlier
     1. Headings
     2. Annotation
     3. Code chunks
     4. Links
     5. Images
3. GITHUB
   * Overview of Git & Github
   * Using Github desktop to make repository online
     1. Have them make their folder into a repo
   * Benefits/uses for reproducible and collaborative research
     1. Script and data accessibility
     2. Folder structure
     3. README files