Analysis Tutorial Instructions and Grading

Develop new, functional code that addresses at least one research question about biological or environmental systems. Your coding application should be documented in files that you share publicly on Github, with more specific requirements detailed below. You will give a short presentation summarizing the tutorial (5 to 10 minutes) at the end of the semester.

Prospectus - **due by Tues Apr 1 at 12:30pm**
Develop an outline of your analysis tutorial idea that includes the following (see example prospectus)…

1. An informative title
2. At least one explicitly stated research question that necessitates development of a coded procedure/analysis.
3. At least one objective stating what the code procedure is about and what the finished code will hopefully do.
4. A few statements about your intended approach/methods
5. At least 3 references from peer reviewed scientific journals related to your tutorial idea and research question(s)

Tutorial files - **due by Fri May 9 at 6pm**
Document and share the following files…

1. A written overview of your tutorial, between ½ page and 1 page single spaced, that builds on the content from your prospectus.
2. Any scripts and data files that you used. Include comments in the scripts.
3. At least 6 references from scientific journals related to your tutorial.
4. Slides for your tutorial presentation.
5. (Optional) Any other supporting info you feel is necessary to document the tutorial.

Grading
Prospectus document, 10%
Short presentation of prospectus (2-3 minutes plus Q & A), 10 %
End of semester presentation (5 minutes plus Q & A, or 10 minutes including Q & A), 30 %
Tutorial files, 50%

Selected References

R Core Team. 2024. R: A Language and Environment for Statistical Computing. from https://www.r-project.org/