

Exercise 2 – Assumptions Due January 24, 2024



A highly regarded scientist collected information on body mass (g) and body length (cm) of an endangered bird endemic of Florida.

Please use the data generated by one run of the R script provided in the class webpage to evaluate if there is any evidence of differences in mass among birds from different locations (save data generated as a file, so it can be reviewed). Use **ALL** the information provided in the file.

1. Inspect and plot your data (publication quality)
2. State a scientific hypothesis based on your observations
3. Select and justify a statistical model to test your hypothesis using the data
4. Plot your best predictive model along with its 95% CI
5. Verify the assumptions of the model you selected using plots
6. Interpret your results

Note: email your submission to Michelle (Michelle.Bardales@ucf.edu) as a single document (PDF preferred) – attach *also* your R file, so we can review the script.