

Preregistration

Preregistration BIOL 520I - Productivity and Reproducibility

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Data collection

This project uses existing data from the *palmerpenguins* package.

Hypothesis

This is an exploratory analysis without a priori hypotheses.

Dependent variable

Although correlation between variables is explored, no regression method is used. Dependent variables are not defined.

Conditions

NA

Analyses

Group-wise statistics are calculated and presented in tabular formats to show differences in penguin bill dimension.

**Outliers and
exclusions**

Rows with missing data are excluded from the analyses for simplicity.

Sample size

344 observations are included in the raw data.

Other

Observed data are plotted to aid visualization of bill dimension differences.

Study type

Class project or assignment

References

Horst AM, Hill AP, Gorman KB (2020). palmerpenguins: Palmer Archipelago (Antarctica) penguin data. R package version 0.1.0. <https://allisonhorst.github.io/palmerpenguins/>. doi:10.5281/zenodo.3960218.