Self-assessment Contributions

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Team: team-placeholder

- Group discussion and R codes

  After Kyra came up with the basic idea and analysis of this paper, each group member was assigned with one of the four chosen life history traits. I picked the age of first reproduction and was responsible for doing statistical analysis and making plots in R with this trait. These analysis includes linear regression, Anova tests, randomization test. I wrote these codes based on what we learned from the lecture and follwed the template Kyra provided to make our codes consistent among different traits. I wrote up the codes for our diagnostic plots for testing assumptions and also the transformation of linear model. This included normality test and homogeneity test for the original linear model, the model after sqaure root transformation and the model after the fourth root transformation.

- Writing paper

  After our group meeting, different parts of the paper were assigned to all four members to write. I wrote the Data analysis part in Method section and also wrote the draft of the Abstract. I gave suggestions and participate in discussing about the paper. I provided relevant information for the Result section, and then doubled checked all results in R again and made some further corrections. As a group, each of us read through the whole paper and edited the paper.

- Presentation

  We decided to present the part that we wrote for the paper. So I was responsible for presenting the normality test, homogenity test, the transformation and drop one test we did for the data. Daire created and outlined the original presentation slides, and each of us edited the relevant part we were responsible for. I also helped to convert graphs we needed to put in the slides from R codes into png files.

- Editing the final version

  I put everything together into a Rmd file as our final version of the paper. I put together and re-organize all R codes from each group member, edited the variable names and added necessary comments. I created all graphs and tables we need for the Figure section and add corresponding captions to each figure and table. In order to make graphs, tables and the overall format look nice and tidy, I also searched online to find useful packages and functions, such as kable (presenting nice Anova tables), grid.arrange (arranging ggplots in a nice way) and mtext (adding captions and notes). I ckecked the whole paper to make sure it had the right layout and everything were knitted correctly. Finally, I will sumbit the final paper (pdf and rmd version) to GitHub.