Results

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1 Results

2 Univariate analysis: trait ~ group + year

2.1 Model 1: Mainland/Island

2.1.1 Mericarp

We found that mericarps in island populations are larger and mode spiny than mericarps in mainland populations.

```
## \begin{table}[ht]
## \centering
## \begin{tabular}{lrrr}
##   \hline
##  & Chisq & Df & Pr($>$Chisq) \\
##   \hline
## mainland\_island & 14.10 & 1 & 0.0002 \\
##   year\_collected & 8.62 & 1 & 0.0033 \\
##    \hline
## \end{tabular}
## \end{table}
```

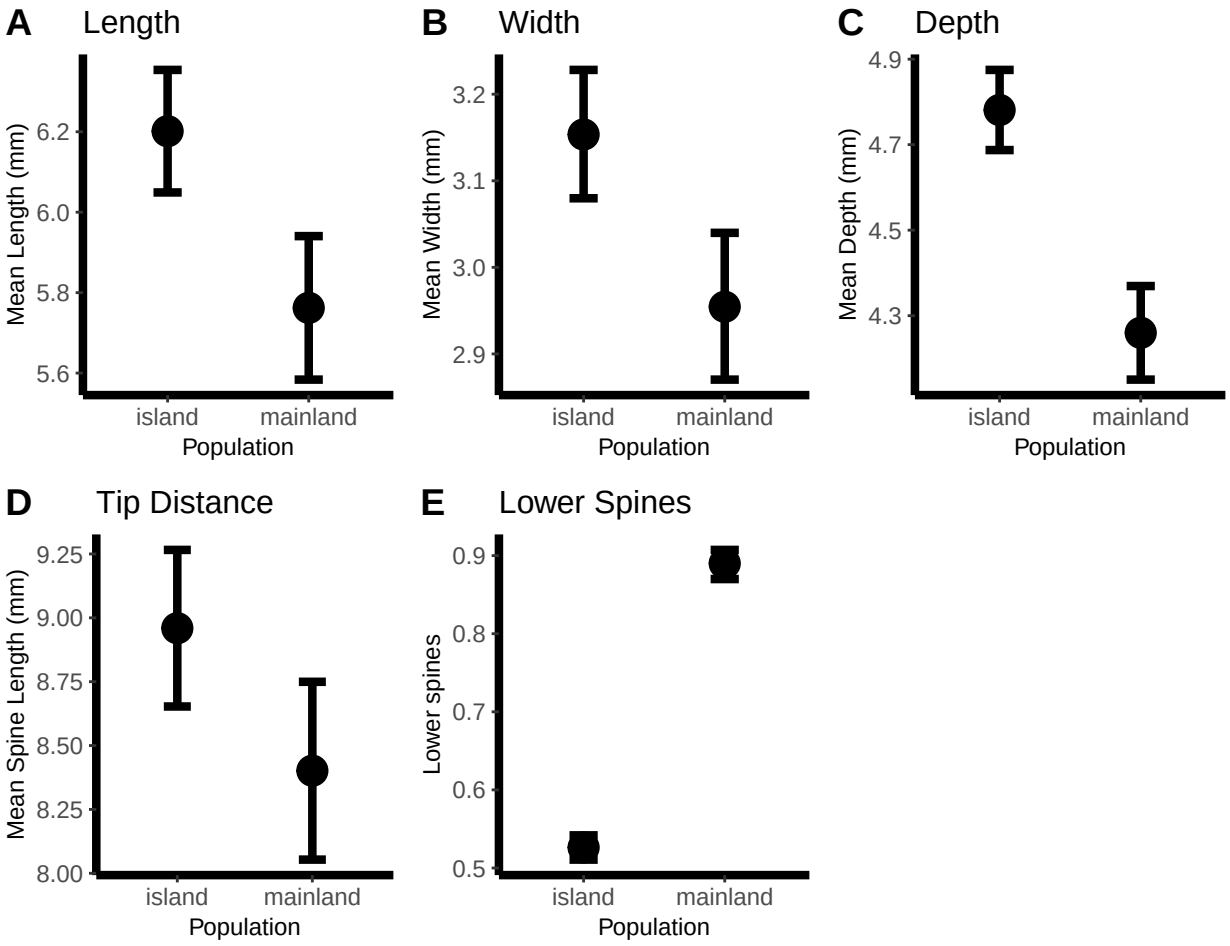

Figure 1: Estimated means of mericarp traits between island and mainland populations.

2.1.2 Flower

We found that flowers in mainland populations are larger than flowers in island populations.

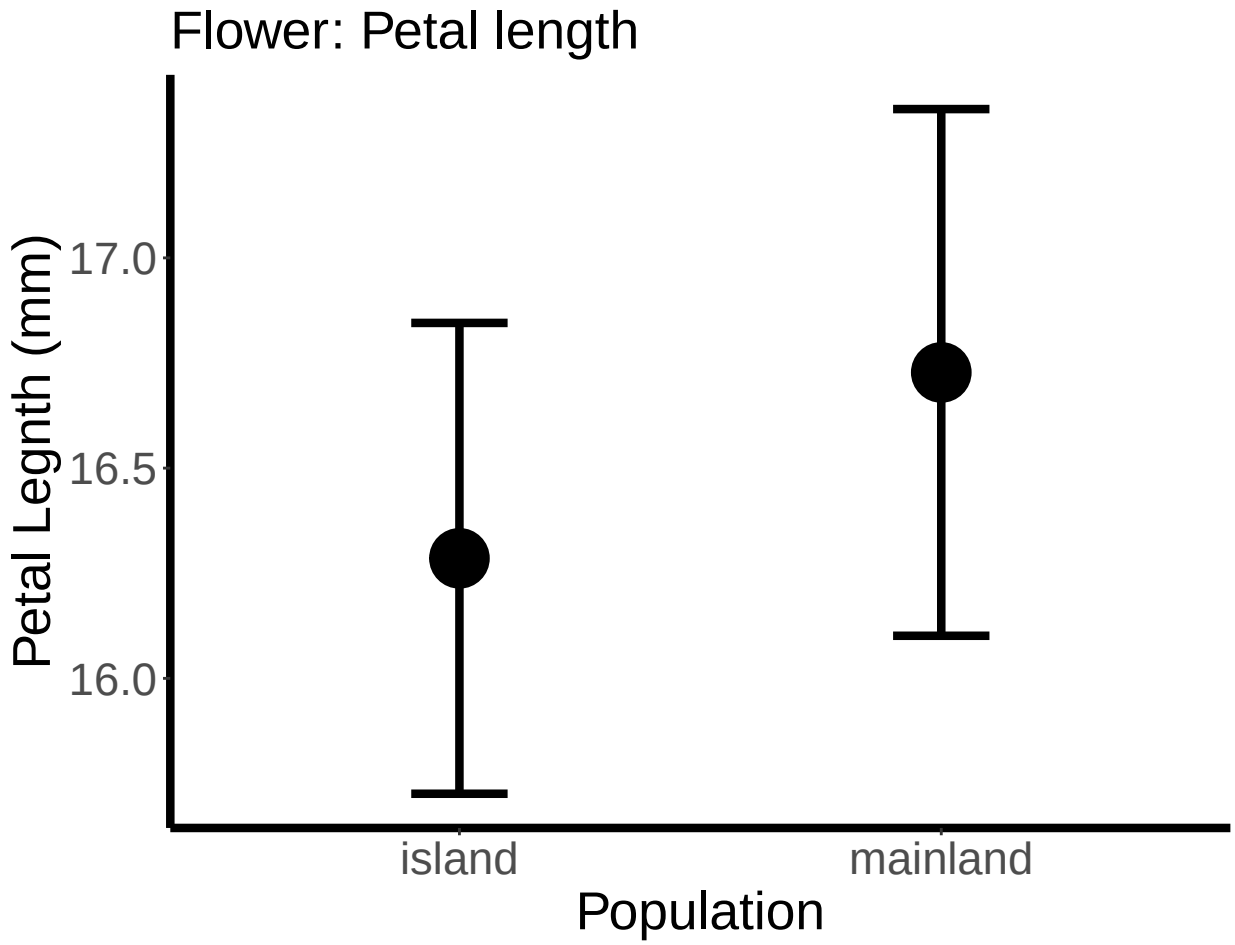

Figure 2: Estimated means of petal length between island and mainland populations.

2.1.3 Leaf

We found that leaves in island populations are longer, and have more leaflets than leaves in mainland populations.

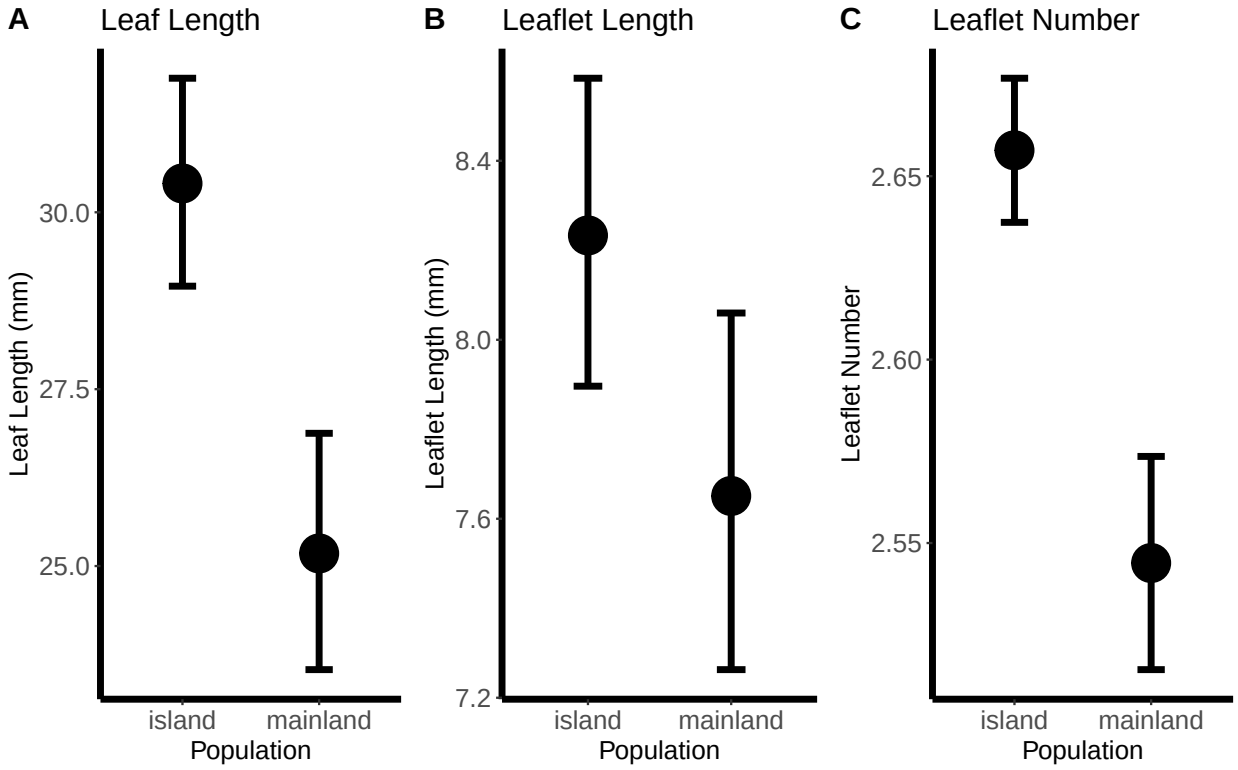

Figure 3: Estimated means of leaf traits between island and mainland populations.

2.2 Model 2: Galapagos/Other Islands

2.2.1 Flower

We found that flowers in the Galapagos are smaller than flowers from populations from other islands.

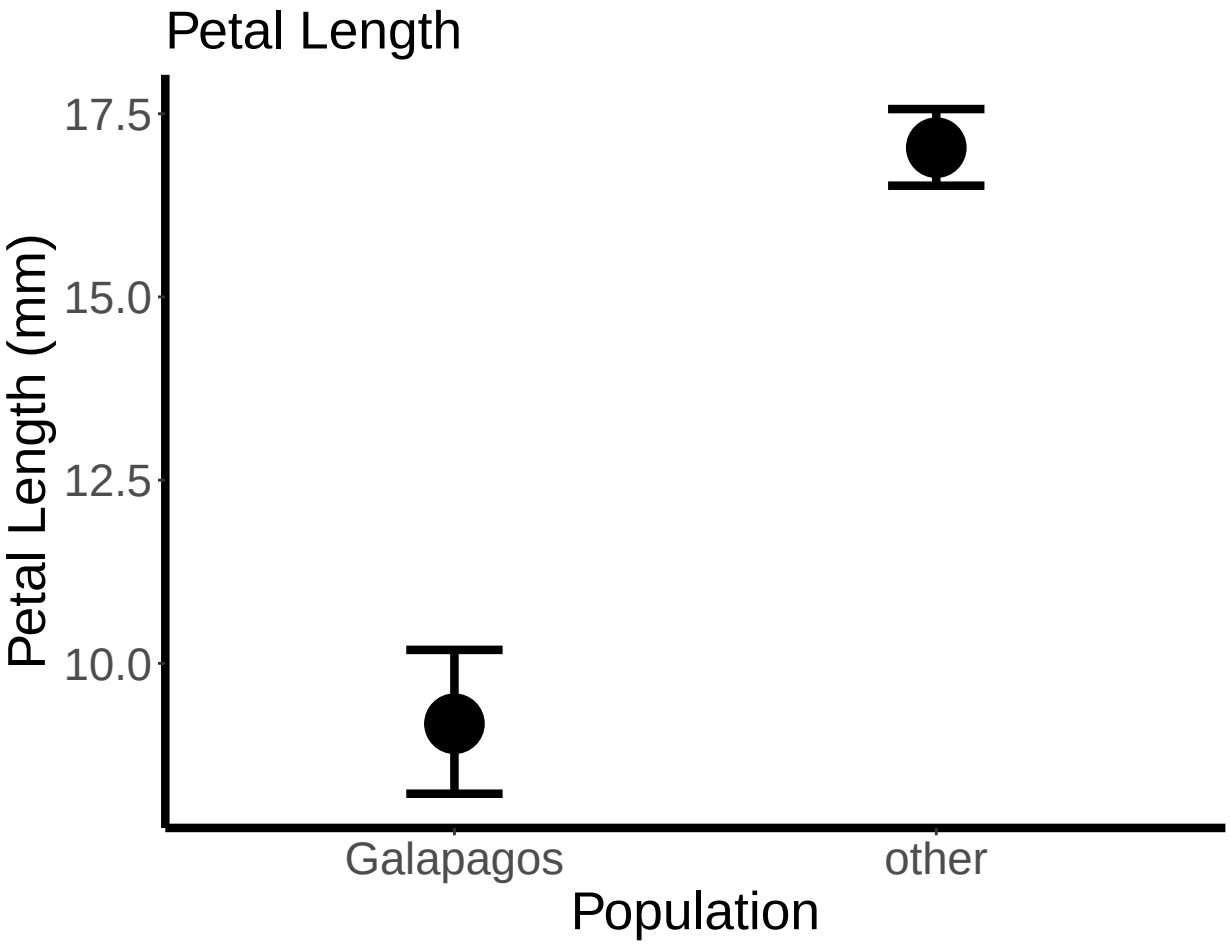

Figure 4: Estimated means of petal length between the Galapagos and other islands populations.

2.2.2 Leaf

We found that leaf length of population from the Galapagos are smaller and have less leaflets than populations from other islands.

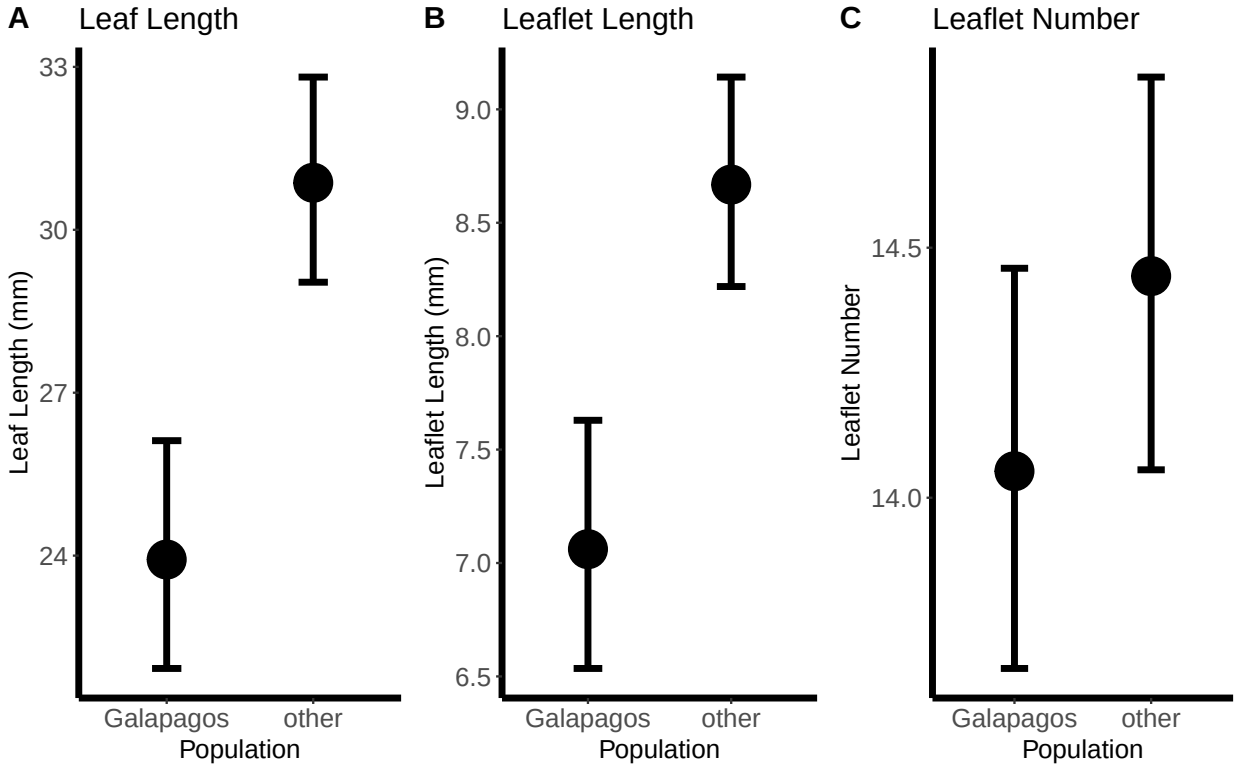

Figure 5: Estimated means of leaf traits between the Galapagos and other island populations.

2.3 Model 3: Finch Beak

2.3.1 Mericarp

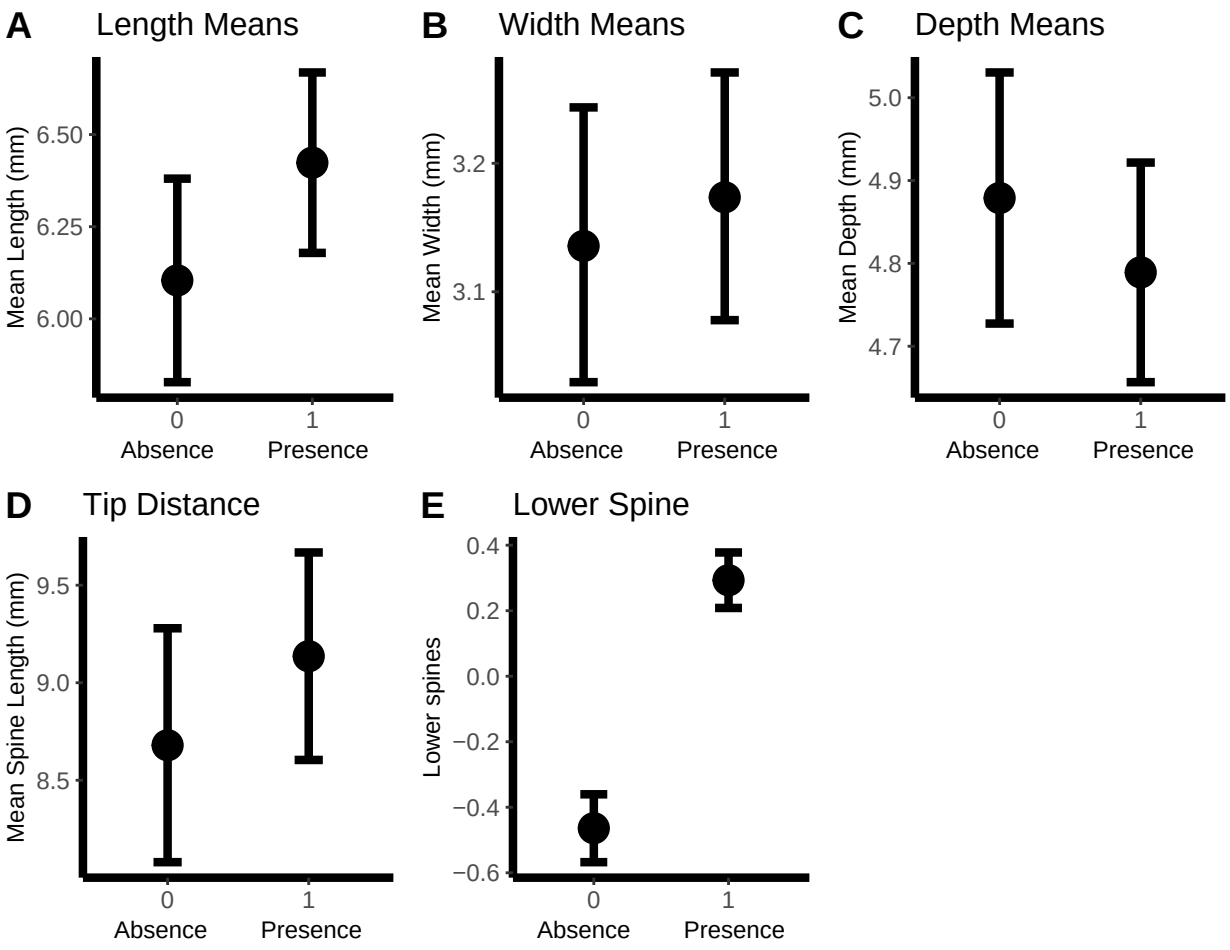

Figure 6: Estimated means of mericarp traits between finch beak communities. 1 = Presence of large finch species, *Geospiza magnirrostris* and *Geospiza cornirostris*. 0 = Absence of large finch species.

2.3.2 Flower

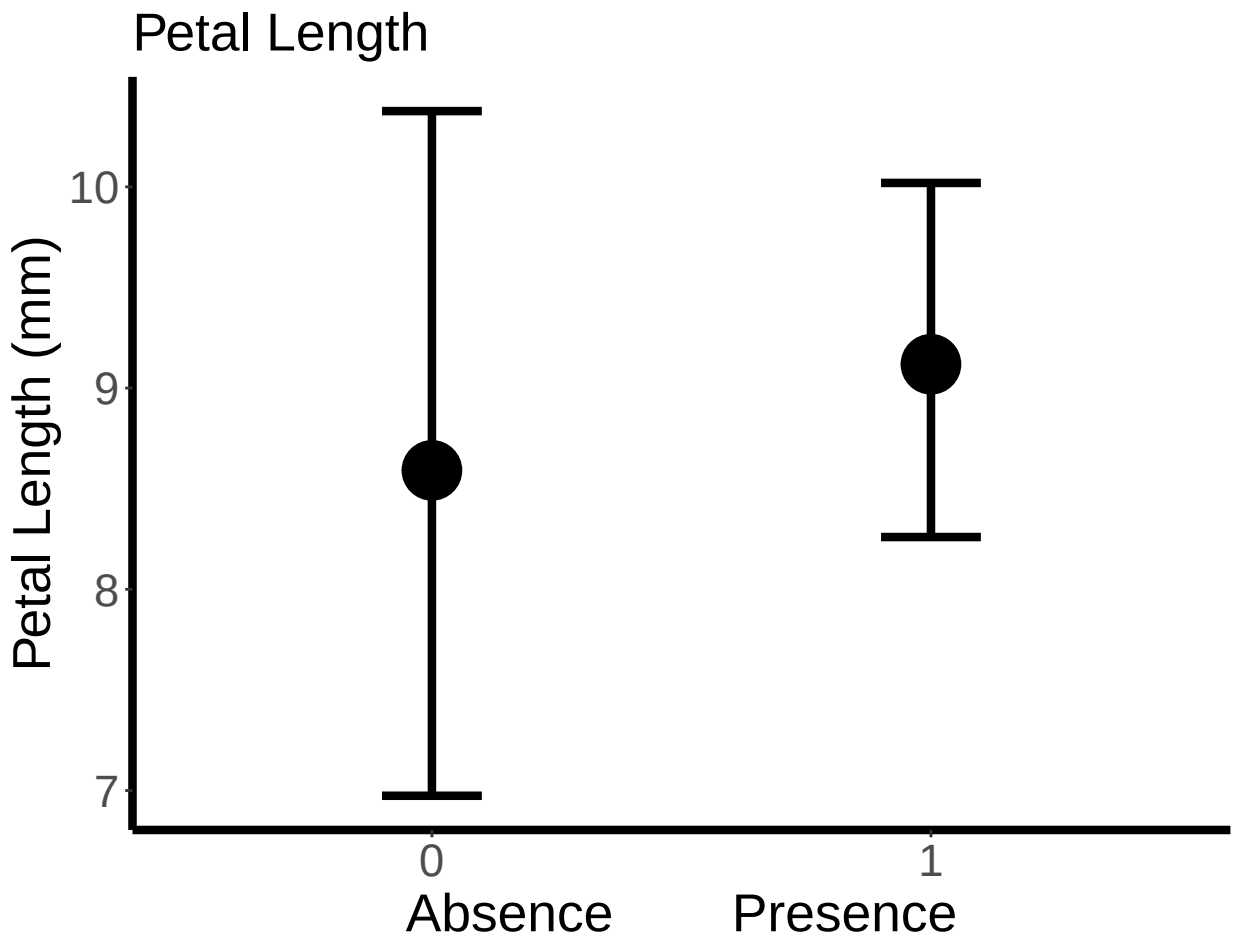

Figure 7: Estimated means of petal length between finch beak communities. 1 = Presence of large finch species, *Geospiza magnirrostris* and *Geospiza cornirostris*. 0 = Absence of large finch species.

2.3.3 Leaf

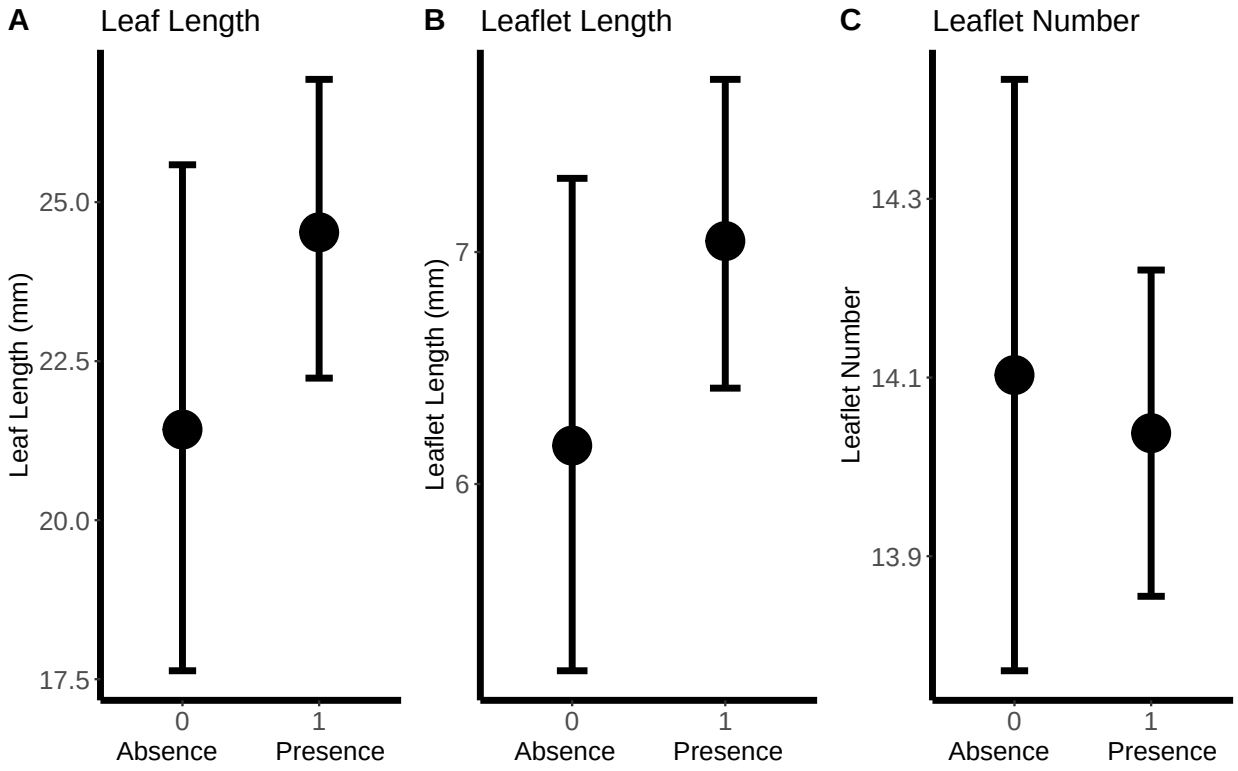

Figure 8: Estimated means of leaf traits between finch beak communities. 1 = Presence of large finch species, *Geospiza magnirrostris* and *Geospiza cornirostris*. 0 = Absence of large finch species.

3 Multivariate analysis: trait ~ group + condition(year)

3.1 Model 1: Mainland/Island

3.2 Model 2: Galapagos/Other

3.3 Model 3: Finch Beak