

WHICH BIRD HAS THE MOST SPECIAL BEAK?

Innovation and elaboration on
the avian tree of life across
evolutionary scales

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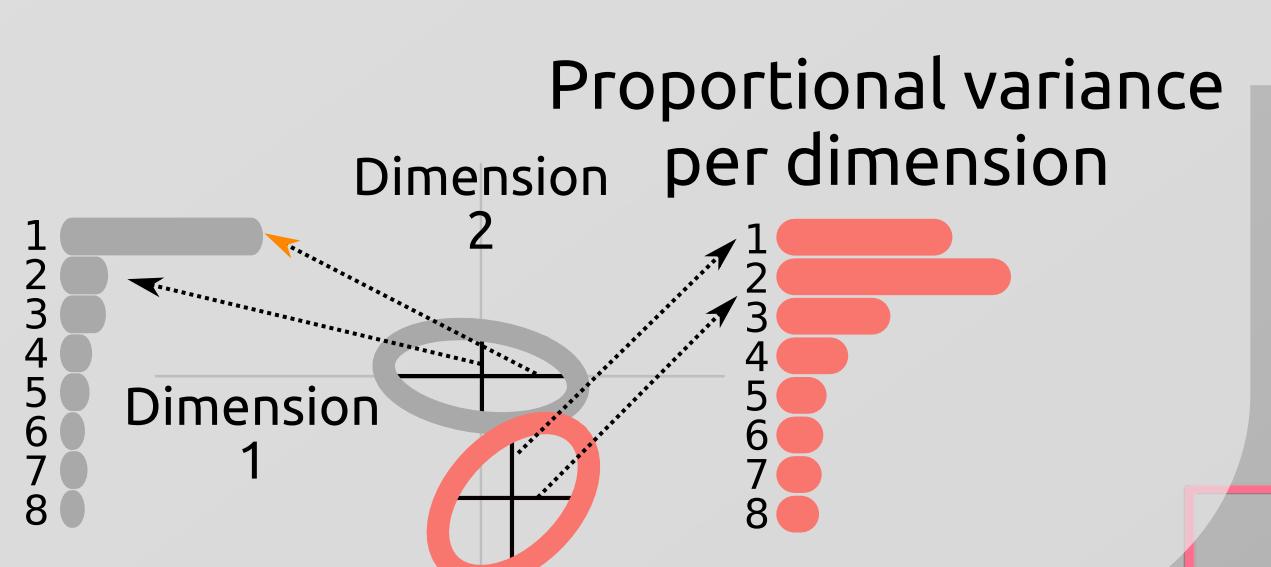
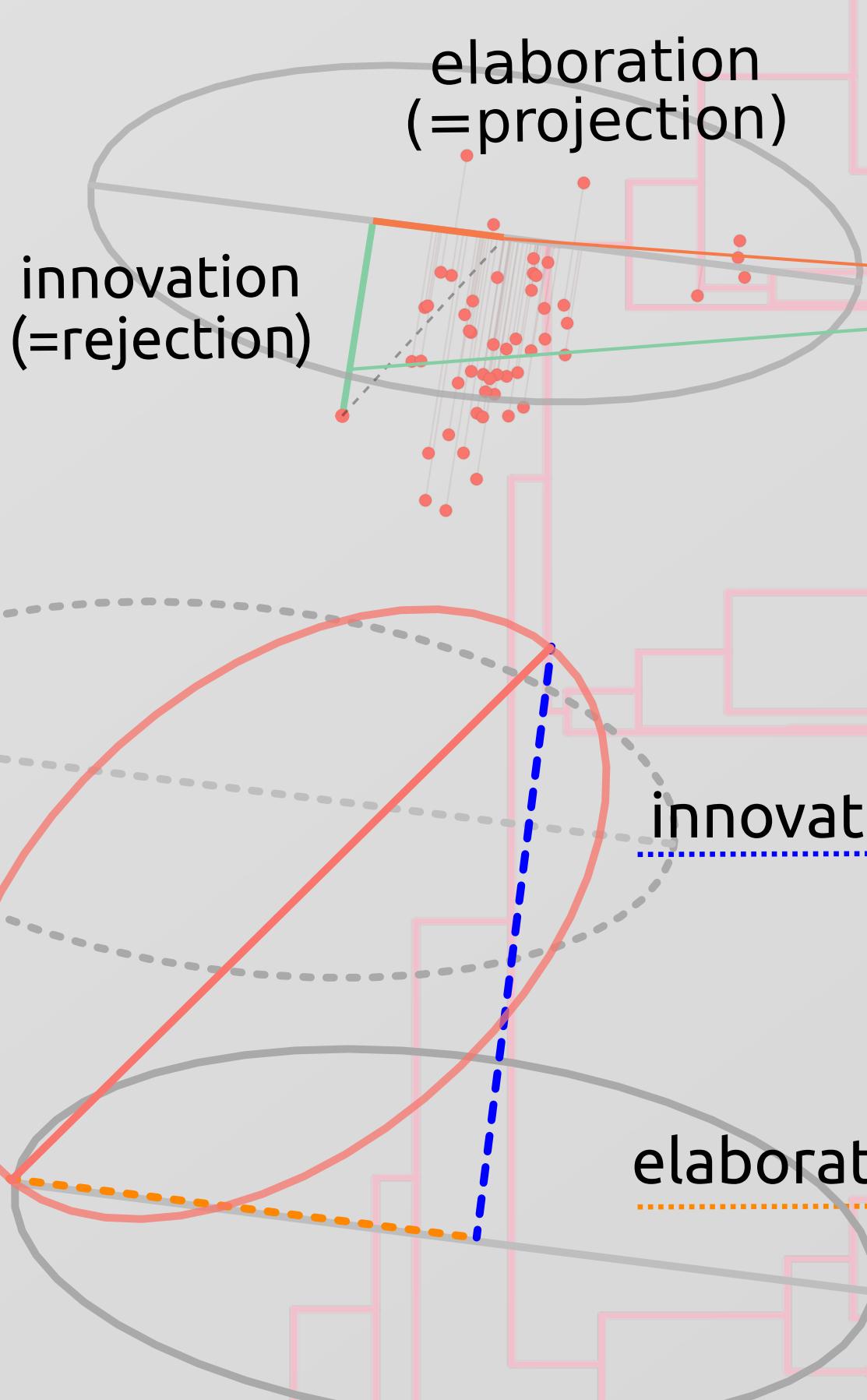
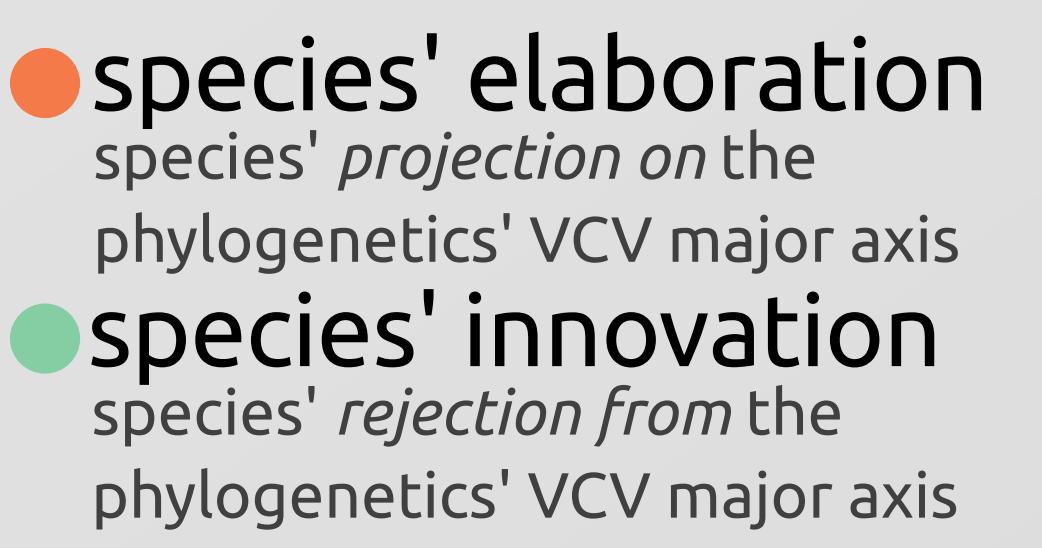
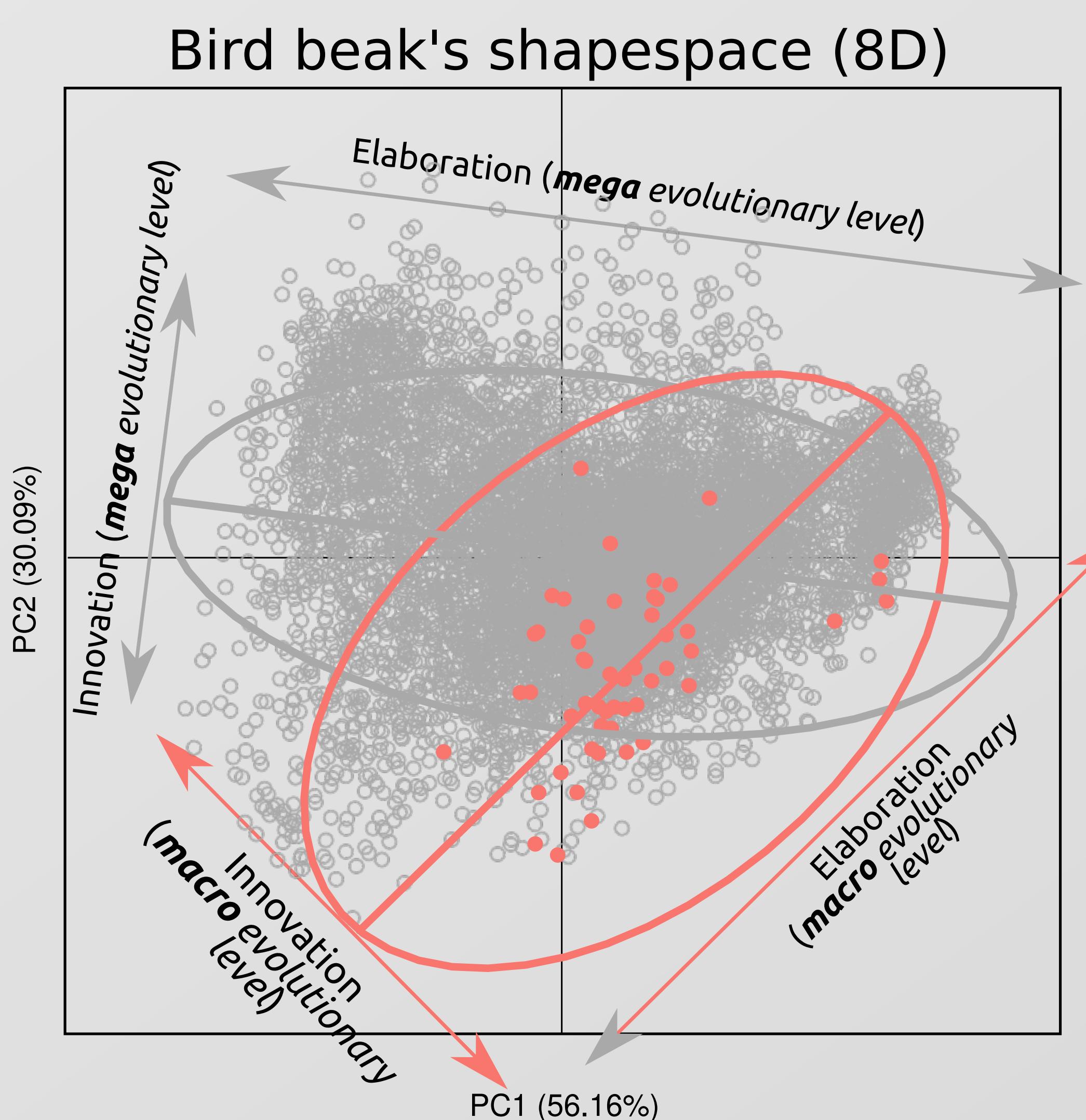
Major axes of variance-covariance?

Generalised linear mixed effects model:

$$\begin{aligned} \textit{shapespace} &\sim \textit{residuals(shapespace)} \\ &+ \textit{random(phylogeny)} \end{aligned}$$


Much more info

What's a special beak?

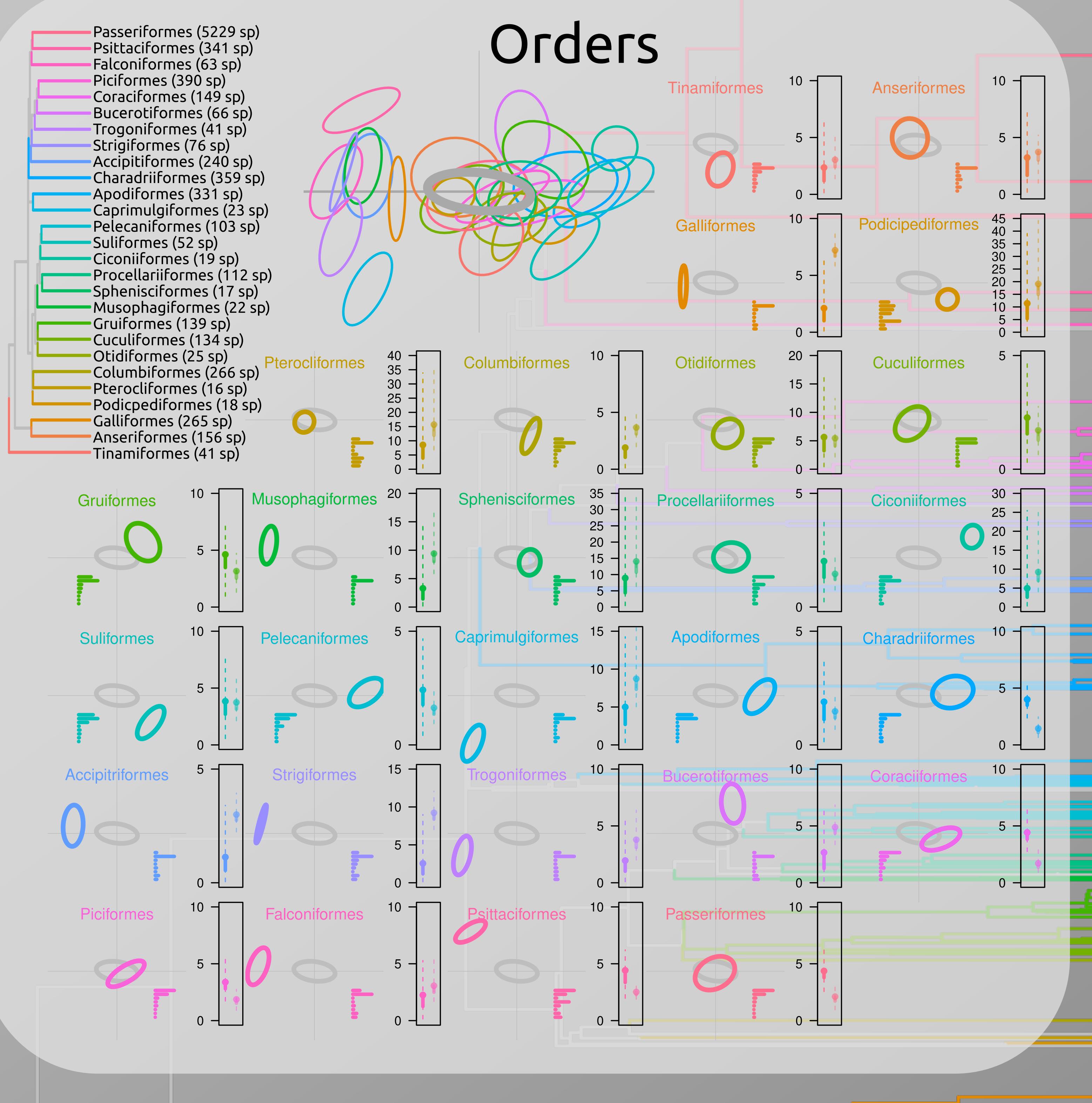




TL;DR:

Species elaborate

Clades innovate



Apus caffer **White-necked Swift**



Batrachostomus cornutus



A close-up photograph of a Eurostopodus mystacalis bird, focusing on its head and upper body. The bird has a dark brown cap, a white supercilium, and a dark nape. Its breast and flanks are heavily patterned with dark brown, black, and white feathers. A prominent feature is the long, dark, bristly mustache-like tufts of feathers extending from the corners of its mouth. The eye is large and dark.

