Rphylopars tutorial

Lucas Jardim

Loading package

library(Rphylopars)

Simulating data

We start this tutorial by simulating 2 traits by Brownian motion (BM) model without missing values. We did not simulate missing values because *Rphylopars::simtraits* deletes values from all traits. There is not a constraint to delete values from one trait. Then, we assigned NA values randomly to 10 values of the first simulated trait.

Imputation

Here, missing values were imputed by a Brownian motion model.

Imputed values are found in the anc_recon element from the phylopars object. phylopars estimate values to all tree nodes. Below, there were filtered the imputed missing values.

This plot shows original (black points) and imputed (red circles) values. The red lines show the distance between the original and imputed values.

