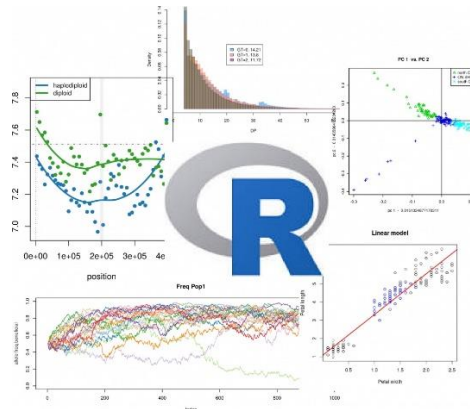


cE3c Advanced Courses 2020/2021



Advanced R for Ecology and Evolutionary Biology

Taught by: Inês Fragata & Vítor Sousa | **May 10-14, 2021 @ FCUL**

Note: This course is intended to be presential, but if needed (e.g. due to COVID-19 security measures by the time of the course) it may be adapted to be given remotely

General Plan

- 1) Refresher into R
- 2) Exploratory analysis for ecology and evolution (Principal Component Analysis)
- 3) Linear regression and ANOVA
- 4) Hypothesis testing using bootstrap and permutations
- 5) Introduction to analysis of population genetics in R
- 6) Modeling and simulation of dynamics systems
- 7) Bayesian statistics and advanced inference algorithms (Markov chain Monte Carlo)
- 8) Students case studies.

Deadline for applications: April 2, 2021

The course is free for a maximum of 8 1st year PhD students in Doctoral programmes at FCUL (e.g. Biology), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

See the PROGRAMME, how to apply and fees at:

<https://ce3c.ciencias.ulisboa.pt/training/ver.php?id=138>

