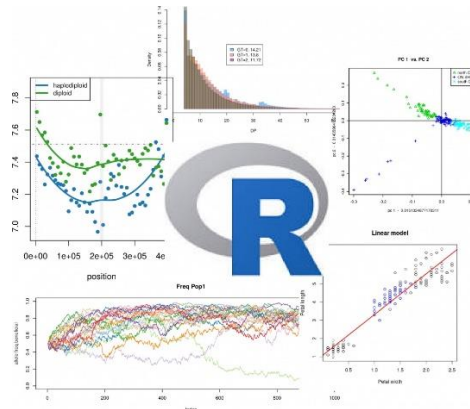# cE3c Advanced Courses 2019/2020

Advanced R for Ecology and Evolutionary Biology
ONLINE EDITION

Taught by: Inês Fragata & Vítor Sousa | **June 15-19, 2020 @ FCUL**

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: May 20, 2020

The course is free for 1st year PhD students of FCUL enrolling in it as part of the curricular year; also free for 1st year PhD students in the Doctoral program Biodiversity, Genetics and Evolution (UP) and Biology and Ecology of Global Changes (UA) when the course counts credits for their formation. This new call only accepts 1st year non-paying students as listed above.

See the PROGRAMME, how to apply and fees at:

http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=126