

## cE3c Advanced Courses 2020/2021



# Applied Methods in Community Ecology and Functional Ecology

Taught by: Paulo Borges & François Rigal | **June 14-18, 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

### Objectives

This is a mostly practical course offering an overview on different community ecology and macroecological methods and software. These will include all steps of a research project, from the optimal sampling of communities to process inference from large-scale patterns of taxon, phylogenetic and functional diversity. Specific topics will be: (1) alpha, beta and gamma diversity; (2) estimating diversity from incomplete sampling; (3) partitioning taxonomic beta diversity; (4) community-assembly rules, (5) functional and phylogenetic diversity, (6) null models, (7) rarity and species abundance distribution. Finally, students will be asked to present own data and case studies.

### Deadline for applications: April 23, 2021

free for 1st year PhD students in Doctoral programmes at FCUL (e.g. Biologia), Biodiversity, Genetics and Evolution (BIODIV UL; UP) and Biology and Ecology of Global Changes (BEAG UL, UA) when the course counts credits for their formation, in which case the delivery of a final report done after the course is mandatory; ; the course is also free for 1st year PhD students at University of Azores (Biology; Interdisciplinary Management of Landscape; Agrarian Sciences). 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=143>



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