

INTRODUCTORY STATISTICS FOR BIOLOGICAL SCIENCES

CIIMAR

Course program

16 hours; 11 – 15 January 2021

Session 1. 10:00 – 14:00 h (break from 11:45 to 12:15h)

- 1.1 Descriptive statistics
- 1.2 Distributions
- 1.3 Graphics
- 1.4 Exercises

Session 2. 10:00 – 14:00 h (break from 11:45 to 12:15h)

- 2.1 Contrast of hypothesis: parametric and non-parametric methods
- 2.2 Goodness of fit contrasts
- 2.3 Homogeneity contrasts
- 2.4 Exercises

Session 3. 10:00 – 14:00 h (break from 11:45 to 12:15h)

- 3.1 Analysis of variance: foundations
- 3.2 Analysis of variance: worked example
- 3.3 Analysis of variance: repeated-measures and nested designs
- 3.4 Exercises

Session 4. 10:00 – 14:00 h (break from 11:45 to 12:15h)

- 4.1 Linear regression
- 4.2 Non-linear regression
- 4.3 Non-parametric regression
- 4.4 Exercises

Docent: Aldo Barreiro Felpeto. CIIMAR.

Price: 100 € (CIIMAR/UP members) 120 others.

Registration: after announcement, up to fill 20 available positions.

Registration, together with the payment information, is available in the CIIMAR website, through the link that is sent with the e-mail announcing the course.

Proof of payment required to book the place (send proof to abarreiro@ciimar.up.pt).

Right after affective registration, a confirmatory e-mail will be sent.

Minimum audience required: 5 registrations 2 weeks before the course.

Important additional information:

- The course will be 100% through the zoom platform provided by CIIMAR
- The course will be taught in English.
- Students will need to use their own laptops for the course.
- The software for teaching will be R, but it is not necessary any background with R. The aim of the course is not learning R language. The material (examples, exercises) is designed in a way that the software employed is not an obstacle.
- All the information and materials necessary for the development of the course will be made available for all the participants in the course through a link to the Open Science Framework website platform.

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