

Course: Introduction to time series analysis in Ecology

University of Barcelona (Barcelona, Spain)

6-9 February 2024

OVERVIEW

Aim. The course aims to provide the basics of time series analyses in different fields of ecology. We will focus on practical examples on how to deal with the different time series, such as population and communities census or data from physicochemical sensors. Also, the course seeks to establish a network of collaborators among SIBECOL researchers, especially those at the early stages of their careers.

Specific content.

- Introduction: R packages, data formats, data visualization.
- Populations: Growth rate, projections, extinction risk and modeling population trends.
- Communities: Incidence-based analyses, dissimilarity measures, ordination, trajectory and time-lag analyses.
- Sensors: Data cleaning and imputation, decomposition, autocorrelation, forecasting, spectral analyses and correlation.
- Tutorship: Help to deal with your own data (optative).

Duration. 25 hours (3.5 days). A detailed schedule and course content will be sent to all participants in January 2024.

Professors. Anna Lupon (CEAB-CSIC), Pol Capdevila (UB), Maria Vives (CREAF), Lluís Gómez-Gener (CREAF) and Gerard Rocher-Ros (CEAB-CSIC).

PRACTICAL INFORMATION

Location and dates.

[Faculty of Biology](#), University of Barcelona (Barcelona, Spain)

6-9 February 2024 (schedule: 9:30-18:00h)

Participants. 30 participants

Application. To apply for the course, fill out the [application form](#). Deadline for applications is December 15, 2023, at 23.59h.

If the number of applicants exceeds the limit of participants, we will prioritize (i) early career researchers and (ii) members of SIBECOL and affiliated societies that have their fees updated when this call closes. Early career researchers are predocs and postdocs with < 6 years of experience since their PhD defense. In case of tie, we will follow gender equality and affiliation diversity criteria.

The communication of acceptance will be on the 22 December 2023.

Fee. Depending on the membership and career stage:

- 45€ SIBECOL early-career members
- 90€ SIBECOL members
- 80€ early-career (non-SIBECOL members)
- 150€ other researchers

The fee includes the teaching lessons + lunch for three days (last day lunch not included). Transport, accommodation and other dispenses are not included. Yet, the organization highly recommends staying at the Casa Jam Hostel (Barcelona), for which we have a special deal (28€/night, including bed, breakfast and touristic fee in a shared room with a private bathroom). The applicants should indicate in the application form if they want to stay at the hostel or not.

APPLICATION FORM

Apply for the course [here](#).