

# INLA AND BEYOND: BAYESIAN HIERARCHICAL MODELLING WITH INLABRU

British Ecological Society Meeting 2025, Edinburgh

Jafet Belmont, Sara Martino and Janine Illian

## 1 Welcome to the course!

- Welcome to the `inlabru` workshop!
- The goal of this workshop is to introduce new users to the `inlabru` software for Bayesian spatial modelling using the integrated nested Laplace approximation (INLA).



! important

Please use the instructions provided [here](#) to install and check your installation *before* the course start.

## 2 Learning Objectives for the workshop

At the end of the workshop, participants will have an understanding of:

- The `inlabru` workflow and software principles.
- The motivation for and the challenges of analysing and modelling spatial data.
- Statistical models used to analyse spatial data.
- The implementation of these models in the `inlabru` package

## 3 Intended audience

The workshop aims to cater for participants with a range of different backgrounds, who is interested in analysing data with modern spatial statistical modelling approaches.

## 4 Prerequisites

Participants should be familiar with the R environment, and general statistical approaches for modelling such as regression, analysis of (co)variance, and generalized linear models.

No knowledge of R-INLA or inlabru is required.

## 5 Schedule Program

Time	Topic
13:00 - 14:00	Workshop registration
14:00 - 14:45	<b>Session 1:</b> Introduction to inlabru
14:45 - 15:30	Practical Session 1
15:30 - 16:00	Refreshment break
16:00 - 16:45	<b>Session 2:</b> Spatial Modelling with inlabru
16:45 - 17:45	Practical Session 2
17:45 - 18:00	Wrap-up and outlook