

INLA AND BEYOND: BAYESIAN HIERARCHICAL MODELLING WITH INLABRU

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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	Session 1: Introduction to <code>inlabru</code>
14:45 - 15:30	Practical Session 1
15:30 - 16:00	Refreshment break
16:00 - 16:45	Session 2: Spatial Modelling with <code>inlabru</code>

Time	Topic
16:45 - 17:45	Practical Session 2
17:45 - 18:00	Wrap-up and outlook