

## **MCMC estimation in R**

### **Objectives**

The aim of this workshop is to introduce students to some of the concepts underlying MCMC estimation of multilevel models and develop practical skills in R in fitting these models.

Students should be able to:

- Apply multilevel techniques to continuous and binary response data
- Acquire knowledge on how to use R software for fitting multilevel models using MCMC estimation
- Understand some basic concepts of Bayesian inference
- Interpret the difference between maximum likelihood and MCMC estimates

*\* Some knowledge of multilevel linear regression modelling in R is needed.*

*\* Please bring your own laptop to the workshop and install R or Rstudio software.*

All Faculty of Social Sciences staff and students are welcome.