



Multilevel Modelling in R

A short course presented by
Mark Tranmer (University of Glasgow, Scotland, UK)

Friday, 23 November 2018
University of Wollongong Campus

Overview

Multilevel modelling is a well-established method for the analysis of data from populations with group structure, such as geographical and educational data. The method is also very valuable for longitudinal data. More recently, multilevel modelling has also been used with social network data.

The Course

The course covers the following topics, and includes examples of the use of R to fit multilevel models, with practical sessions for participants.

- An Introduction to Multilevel Modelling: Concepts and Theory.
- Two Level Models with Continuous and Binary Responses
- Cross-Classified Models
- Longitudinal Data Analysis
- Multilevel Models for Social Network Data.
- The Use of R for Multilevel Modelling, and its Integration with Other Software.

Participants will receive a printed copy of the notes and slides used in the presentations and of the example computer programs. Participants are strongly encouraged to bring a laptop with a recent version of R loaded. Loaner laptops may be available with sufficient prior notice.

Target Audience

Participants should be experienced users of single-level regression models. Familiarity with multilevel modelling is useful, but not essential. A useful book on the concepts and theory is: Snijders, T., & Bosker, R. *Multilevel Analysis: An Introduction to Basic and Advanced Multilevel Modelling*, [second edition]. Sage Publishers, 2012.



The Instructor



Mark Tranmer is Professor of Quantitative Social Science at the University of Glasgow, Scotland, UK. He is also an Honorary Professorial Fellow in the National Institute for Applied Statistics Research Australia (NIASRA), at the University of Wollongong.

Mark's research themes include Multilevel Modelling, Social Network Analysis, Animal Behaviour, and Statistical Modelling. He has been at the forefront of applying multilevel models to social network data and was recently a guest editor of a special edition on multilevel social networks for the journal *Social Networks*. His publications range from public health and health systems to animal studies to research on social cohesion.

Fees and Information

Course	Date	Fee	SSAI Members	Students
Multilevel Modelling in R	23 rd November	\$400	\$350	\$200

Location: [Building 6, Room 210, University of Wollongong](#)

Date: **Friday 23 November 2018**

Duration: Registration at 9.00am
Course commences 9:30am
Course finishes 5:00pm

Morning and afternoon coffee/tea and a sandwich lunch on both days are included in the course fee. To register and for further information contact Michele Boatswain on micheleb@uow.edu.au

Places are strictly limited and registrations will be processed as they are received.