

**OFCO3137E – MIXED-MODELS FOR REPEATED MEASUREMENT DATE
ANNEE ACADEMIQUE 2025 / 2026**

Université : UCLouvain

Lieu : salle informatique SOC033 (bâtiment Michotte, LLN)

Horaires / Dates : 6, 13 et 20 février 2026, de 14h à 18h

Enseignant : Xavier Dumay

Crédits : 2 si présentation de l'évaluation individuelle (1 crédit sinon)

Description / Contenu

This workshop presents linear mixed models (sometimes also called "linear random effect models" or "multilevel models") and their use in the analysis of longitudinal data. These models generalize linear regression to the case where the observations are not independent of each other but belong to "groups" (pupils in schools, repeated measurements on each individual, etc). Crossed random effects, and their use in experimental designs, are also discussed.

Compétences & Objectifs

- understand the theoretical foundations and analytical equations of longitudinal and cross-type mixed models.
- identify relevant research contexts and designs for the application of longitudinal or cross-type mixed models.
- compute and interpret longitudinal and cross-type mixed models.

Activités d'enseignement-apprentissage

Workshop in small group. Theoretical presentation with examples in software HLM7.0. Exercise carried out by the participants at home and discussed in class.
This workshop takes place face-to-face

Modalités d'évaluation

Individual written work