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**Software | Centre for Multilevel  
Modelling | University of ...  
The ML-DEs software package**

**(Cools, Van den Noortgate and Onghena) that has been developed independently from MLPowSim but which also uses MLwiN and simulation to calculate power calculations for multilevel designs is available. We hope to compare MLPowSim with ML-DEs in further**

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**work.**

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**In carrying out these reviews we are  
well aware that there are potential  
conflicts of interest, since the**

**Centre for Multilevel Modelling has its own software package, MLwiN, which is also reviewed (see MLwiN review). We realise that the choice of reviewers and also of data sets for analysis is not a neutral activity.**

**Multilevel modelling software |**



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**D. This study compared five common multilevel software packages via Monte Carlo simulation: HLM 7, Mplus 7.4, R (lme4 V1.1-12), Stata 14.1, and SAS 9.4 to determine how the programs differ in estimation accuracy and**

**speed, as well as convergence,  
when modeling multiple randomly  
varying slopes of different  
magnitudes.**

**Multilevel Modeling in R (2.6)  
The lavaan tutorial Yves Rosseel  
Department of Data Analysis Ghent**

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**University (Belgium) August 30,  
2019 Abstract If you are new to  
lavaan, this is the place to start. In  
this tutorial, we introduce the basic  
components of lavaan: the model  
syntax, the fitting functions (cfa, sem  
and growth), and the main extractor  
functions (summary, coef, tted ...**

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**MLPowSim | Centre for Multilevel  
Modelling | University of ...  
Multilevel Modeling in R, Using the  
nlme Package William T. Hoyt  
(University of Wisconsin-Madison)  
David A. Kenny (University of  
Connecticut) March 21, 2013**

**Supplement to Kenny, D. A., & Hoyt,  
W. (2009) Multiple levels of analysis  
in psychotherapy research,  
Psychotherapy Research, 19,  
462-468.**

**University of the Cumberlands  
After a short historical introduction,**

**a general linear model for multilevel analysis is presented. The model consists of two sets of regression equations, one for the individual (micro) level and one for the group (macro) level. In the latter, the micro coefficients are seen as dependent variables.**

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**LEMMA (Learning Environment for  
Multilevel Methods and ...**

**Clicking the 'Request Information'  
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**Does the Package Matter? A  
Comparison of Five Common ...  
Realcom (Developing multilevel**



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**models for REAListically COMplex  
social science data) The model of  
interest is first set up in MLwiN in  
the usual way and then the  
variables exported to REALCOM-  
IMPUTE and then the imputed  
datasets returned to MLwiN where  
they will be fitted and combined**

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**automatically for the specified  
model of interest.**

**Package 'mlmRev' - The  
Comprehensive R Archive Network  
The multilevel package provides (a)  
tools to estimate a variety of within-  
group agreement and reliability**

**measures, (b) data manipulation functions to facilitate multilevel and longitudinal analyses, and (c) a number of datasets to illustrate concepts. Finally, the text makes considerable use of the non-linear and linear mixed-effects (nlme)**

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**Centre for Multilevel Modelling -  
University of Bristol  
(Learning Environment for  
Multilevel Methods and  
Applications) Skip Main menu. Main  
menu. Site news Forum. You are  
not logged in. Data retention  
summary ...**

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**Paul Bliese - Darla Moore School of  
Business | University ...**

**Multilevel models can be used on  
data with many levels, although  
2-level models are the most  
common. Multilevel models, or  
mixed effects models, can be**

**estimated in R. There are several packages available in CRAN. In this paper we are presenting some common methods to analyze these models. Keywords: Multilevel analysis, R, CRAN, package**

**What software would you**

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**recommend for multilevel  
modelling?**

**Packages" from the Multilevel  
Modeling Group at the Institute of  
Educa-tion in the UK. This package  
also contains several other data  
sets from the multilevel modeling  
literature. The software reviews**

**mentioned above were intended to provide comparison of the speed and accuracy of many different packages for fitting multilevel models.**

## **Examples from Multilevel Software Comparative Reviews**



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**Campus Spotlight. Winter Week of  
Welcome. Make connections and  
explore campus with fun and free  
events, Jan. 17-25. See All Events**

**Multilevel Modeling | SAGE  
Publications Inc**

**Popular Answers ( 2) R2MLwiN: An**

*Page 25/37*

**R command interface to the MLwiN multilevel modelling software package, allowing users to fit multilevel models using MLwiN from within the R environment. It is designed to be used with versions of MLwiN from v2.25 onwards although some features will work**

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with earlier versions.

## **Multilevel Modeling in R, Using the nlme Package**

**The term multilevel refers to a  
nested membership relation among  
units in a system. In an education  
system, for example, students are**

**members of classes, and classes are grouped within schools. When 'single level' techniques such as multiple regression are applied to data from a structure such as this, the analysis will ignore important aspects of the data structure and the results will often be misleading.**

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**IS THERE AN R PACKAGE FOR  
MULTILEVEL STRUCTURAL  
EQUATION ...**

**Author G. David Garson's step-by-step instructions for software walk readers through each package. The instructions for the different**

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**platforms allow students to get a running start using the package with which they are most familiar while the instructor can start teaching the concepts of multilevel modeling right away.**

**MLwiN | Centre for Multilevel**

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**Modelling | University of ...**

**Multilevel Modeling Tutorial 4 The**

**Department of Statistics and Data**

**Sciences, The University of Texas**

**at Austin. factors and could**

**potentially impact the decision of**

**declaring a random factor**

**significant or not. SAS, HLM, R, and**

**SPSS use REML by default, while  
Stata and Mplus use ML.**

**The lavaan tutorial - UGent  
Paul D. Bliese is an Associate  
Professor of Business  
Administration in the Management  
Department of the Darla Moore**



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**School of Business at the  
University of South Carolina. ... He  
received a Ph.D. from Texas Tech  
University and a B.A. from Texas  
Lutheran University. ... He  
developed and maintains the  
multilevel package for the open-  
source ...**

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**Using SAS, Stata, HLM, R, SPSS,  
and Mplus**

**The Centre for Multilevel Modelling  
(CMM) is a research centre based at  
the University of Bristol. Our  
researchers are drawn from the  
School of Education and School of**

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**Geographical Sciences. We  
collaborate with a range of  
researchers working with multilevel  
models.**

**The University of Vermont  
Package 'mlmRev' February 8,  
2019 Version 1.0-7 Date 2019-02-04**

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**Title Examples from Multilevel  
Modelling Software Review Author  
Douglas Bates  
<bates@stat.wisc.edu>,**

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